


1.0 Reference and Address			
Report Number	200609014GZU-001	Original Issued: 12-Oct-2020	Revised: None
Standard(s)	Luminaires>Valid without technical revision: 30Oct2021< [UL 1598:2008 Ed.3+R:17Oct2012] Luminaires (R2013)>Valid without technical revision: 30Oct2021< [CSA C22.2#250.0:2008 Ed.3+G1;G2]		
Applicant	Zhongshan Jumei Lighting Co., Ltd.	Manufacturer	Zhongshan Jumei Lighting Co., Ltd.
Address	No. 36 of Lefeng 6 Road, Henglan Town, ZHONGSHAN Guangdong	Address	No. 36 of Lefeng 6 Road, Henglan Town, ZHONGSHAN Guangdong
Country	China	Country	China
Contact	Mr. Wang Min	Contact	Mr. Wang Min
Phone	13326999777	Phone	13326999777
FAX	NA	FAX	NA
Email	591713492@qq.com	Email	591713492@qq.com

2.0 Product Description																																																					
Product	Type IC recessed luminaire																																																				
Brand name	Jumei, Mag Lung, VONN,  RIGART light (Rigart light) <small>From Antwerp</small>																																																				
Description	The products covered by this report are type IC LED recessed luminaires with connection box. They are suitable for dry location use and dimmable.																																																				
Models	VMWA004201A008, VMCL004601A008, VMCL004601B012, VMCL004701A008, VMCL004101A008, VMDL004101A008, VMDL000601A003, VMDL000603A009, VMDL000605A012, VMDL000610A024, VMDL000605E012, VMDL000610E024, VMDL000603C009, VMDL000605C012, VMDL000610C024, VMCL000605D012, VMCL000605E012, VMCL000701A020, VMDL000701A020, VMDL003001A007, VMDL003001B012, VMCL001901A012, VMCL001901B012, VMCL001901C020, VMCL001901D020; followed by up to four characters. MDL0006-01A-003(U01A), MDL0006-03C-009(U01A), MDL0006-03A-009(U01A), MDL0006-05A-012(U01A), MDL0006-05E-012(U01A), MDL0006-10A-024(U01A), MDL0006-10E-024(U01A), MDL0006-05C-012(U01A), MDL0006-10C-024(U01A), MCL0006-05D-012(U01A), MCL0006-05E-012(U01A), MCL0007-01A-020(U01A), MDL0007-01A-020(U01A), MDL0030-01A-007(U01A), MDL0030-01B-012(U01A), MCL0019-01A-012(U01A), MCL0019-01B-012(U01A), MCL0019-01C-020(U01A), MCL0019-01D-020(U01A), MCL0046-01A-008(U01A), MCL0046-01A-012(U01A), MCL0047-01A-008(U01A), MCL0041-01A-008(U01A), MDL0041-01A-008(U01A), MWA0042-01A-008(U01A).																																																				
Model Similarity	All models have the similar electrical and mechanical construction, main difference among them are shape, LED quantity, color and wattage. For characters following model no. such as VMCL004101A008XXXX, XXXX denotes body finish.																																																				
	<table border="1"> <thead> <tr> <th>Model No.</th> <th>Alternative Model No.</th> </tr> </thead> <tbody> <tr><td>VMWA004201A008</td><td>MWA0042-01A-008(U01A)</td></tr> <tr><td>VMCL004601A008</td><td>MCL0046-01A-008(U01A)</td></tr> <tr><td>VMCL004601B012</td><td>MCL0046-01A-012(U01A)</td></tr> <tr><td>VMCL004701A008</td><td>MCL0047-01A-008(U01A)</td></tr> <tr><td>VMCL004101A008</td><td>MCL0041-01A-008(U01A)</td></tr> <tr><td>VMDL004101A008</td><td>MDL0041-01A-008(U01A)</td></tr> <tr><td>VMDL000601A003</td><td>MDL0006-01A-003(U01A)</td></tr> <tr><td>VMDL000603A009</td><td>MDL0006-03A-009(U01A)</td></tr> <tr><td>VMDL000605A012</td><td>MDL0006-05A-012(U01A)</td></tr> <tr><td>VMDL000610A024</td><td>MDL0006-10A-024(U01A)</td></tr> <tr><td>VMDL000605E012</td><td>MDL0006-05E-012(U01A)</td></tr> <tr><td>VMDL000610E024</td><td>MDL0006-10E-024(U01A)</td></tr> <tr><td>VMDL000603C009</td><td>MDL0006-03C-009(U01A)</td></tr> <tr><td>VMDL000605C012</td><td>MDL0006-05C-012(U01A)</td></tr> <tr><td>VMDL000610C024</td><td>MDL0006-10C-024(U01A)</td></tr> <tr><td>VMCL000605D012</td><td>MCL0006-05D-012(U01A)</td></tr> <tr><td>VMCL000605E012</td><td>MCL0006-05E-012(U01A)</td></tr> <tr><td>VMCL000701A020</td><td>MCL0007-01A-020(U01A)</td></tr> <tr><td>VMDL000701A020</td><td>MDL0007-01A-020(U01A)</td></tr> <tr><td>VMDL003001A007</td><td>MDL0030-01A-007(U01A)</td></tr> <tr><td>VMDL003001B012</td><td>MDL0030-01B-012(U01A)</td></tr> <tr><td>VMCL001901A012</td><td>MCL0019-01A-012(U01A)</td></tr> <tr><td>VMCL001901B012</td><td>MCL0019-01B-012(U01A)</td></tr> <tr><td>VMCL001901C020</td><td>MCL0019-01C-020(U01A)</td></tr> <tr><td>VMCL001901D020</td><td>MCL0019-01D-020(U01A)</td></tr> </tbody> </table>	Model No.	Alternative Model No.	VMWA004201A008	MWA0042-01A-008(U01A)	VMCL004601A008	MCL0046-01A-008(U01A)	VMCL004601B012	MCL0046-01A-012(U01A)	VMCL004701A008	MCL0047-01A-008(U01A)	VMCL004101A008	MCL0041-01A-008(U01A)	VMDL004101A008	MDL0041-01A-008(U01A)	VMDL000601A003	MDL0006-01A-003(U01A)	VMDL000603A009	MDL0006-03A-009(U01A)	VMDL000605A012	MDL0006-05A-012(U01A)	VMDL000610A024	MDL0006-10A-024(U01A)	VMDL000605E012	MDL0006-05E-012(U01A)	VMDL000610E024	MDL0006-10E-024(U01A)	VMDL000603C009	MDL0006-03C-009(U01A)	VMDL000605C012	MDL0006-05C-012(U01A)	VMDL000610C024	MDL0006-10C-024(U01A)	VMCL000605D012	MCL0006-05D-012(U01A)	VMCL000605E012	MCL0006-05E-012(U01A)	VMCL000701A020	MCL0007-01A-020(U01A)	VMDL000701A020	MDL0007-01A-020(U01A)	VMDL003001A007	MDL0030-01A-007(U01A)	VMDL003001B012	MDL0030-01B-012(U01A)	VMCL001901A012	MCL0019-01A-012(U01A)	VMCL001901B012	MCL0019-01B-012(U01A)	VMCL001901C020	MCL0019-01C-020(U01A)	VMCL001901D020	MCL0019-01D-020(U01A)
	Model No.	Alternative Model No.																																																			
	VMWA004201A008	MWA0042-01A-008(U01A)																																																			
	VMCL004601A008	MCL0046-01A-008(U01A)																																																			
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	VMCL004701A008	MCL0047-01A-008(U01A)																																																			
	VMCL004101A008	MCL0041-01A-008(U01A)																																																			
	VMDL004101A008	MDL0041-01A-008(U01A)																																																			
	VMDL000601A003	MDL0006-01A-003(U01A)																																																			
	VMDL000603A009	MDL0006-03A-009(U01A)																																																			
	VMDL000605A012	MDL0006-05A-012(U01A)																																																			
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	VMCL000605D012	MCL0006-05D-012(U01A)																																																			
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	VMDL000701A020	MDL0007-01A-020(U01A)																																																			
	VMDL003001A007	MDL0030-01A-007(U01A)																																																			
	VMDL003001B012	MDL0030-01B-012(U01A)																																																			
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	VMCL001901C020	MCL0019-01C-020(U01A)																																																			
	VMCL001901D020	MCL0019-01D-020(U01A)																																																			

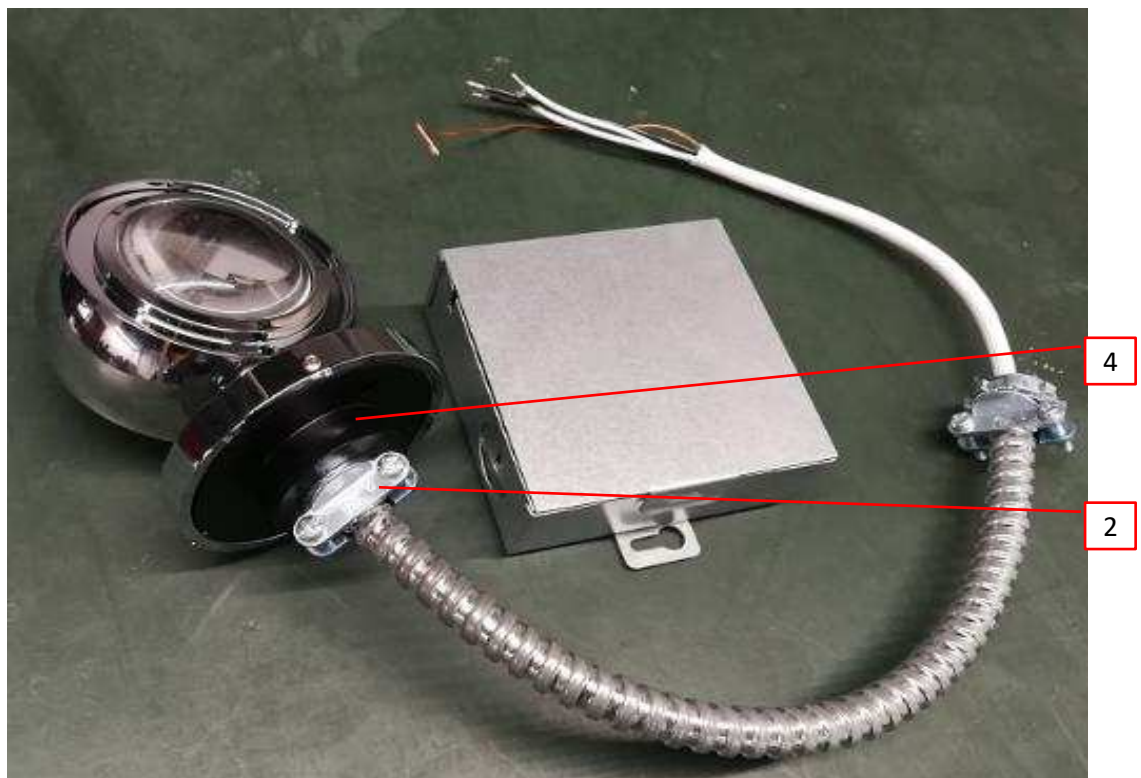
2.0 Product Description							
	Model No.	Input voltage	Wattage	LED driver/LED module type	Dimensions/mm		
Ratings	VMWA004201A008	120V, 60Hz	8W	LED module-1 * 2pcs	105.6*80*34		
	VMCL004601A008		8W	LED module-2	Φ80*48		
	VMCL004601B012		12W	LED module-3	Φ110*80		
	VMCL004701A008		8W	LED module-2	Φ134*75.5		
	VMCL004101A008		8W	LED module-2	Φ70*160		
	VMDL004101A008		8W	LED module-2	Φ70*185		
	VMDL000601A003	120-277V, 60Hz	3.3W	LED driver-1	45*45*55		
	VMDL000603A009		8.6W	LED driver-2	105*45*55		
	VMDL000605A012		12W	LED driver-3	165*45*55		
	VMDL000610A024		23.8W	LED driver-5	315*45*55		
	VMDL000605E012		11.5W	LED driver-4	165*45*55		
	VMDL000610E024		24W	LED driver-9	315*45*55		
	VMDL000603C009		8.6W	LED driver-2	125*65*55		
	VMDL000605C012		12W	LED driver-3	185*65*55		
	VMDL000610C024		24W	LED driver-5	335*65*55		
	VMCL000605D012		12W	LED driver-3	157*37*95		
	VMCL000605E012		11W	LED driver-4	157*37*95		
	VMCL000701A020		20W	LED driver-6	Φ110*195		
	VMDL000701A020		20W	LED driver-6	Φ110*108		
	VMDL003001A007		6W	LED driver-7	Φ75*122		
	VMDL003001B012		12W	LED driver-8	Φ95*122		
	VMCL001901A012		12W	LED driver-8	Φ90*100		
	VMCL001901B012		12W	LED driver-8	80*80*100		
	VMCL001901C020		20W	LED driver-6	Φ110*120		
	VMCL001901D020		20W	LED driver-6	100*100*120		
	Other Ratings		Model No.				Dimmable type
			VMWA004201A008,MWA0042-01A-008(U01A), VMCL004601A008,MCL0046-01A-008(U01A), VMCL004601B012,MCL0046-01A-012(U01A), VMCL004701A008,MCL0047-01A-008(U01A), VMCL004101A008,MCL0041-01A-008(U01A), VMDL004101A008, MDL0041-01A-008(U01A)				Triac dimmer
	VMDL000601A003, MDL0006-01A-003(U01A), VMDL000603A009, MDL0006-03A-009(U01A), VMDL000605A012, MDL0006-05A-012(U01A), VMDL000610A024, MDL0006-10A-024(U01A), VMDL000605E012, MDL0006-05E-012(U01A), VMDL000610E024, MDL0006-10E-024(U01A), VMDL000603C009, MDL0006-03C-009(U01A), VMDL000605C012, MDL0006-05C-012(U01A), VMDL000610C024, MDL0006-10C-024(U01A), VMCL000605D012, MCL0006-05D-012(U01A), VMCL000605E012, MCL0006-05E-012(U01A), VMCL000701A020, MCL0007-01A-020(U01A), VMDL000701A020, MDL0007-01A-020(U01A), VMDL003001A007, MDL0030-01A-007(U01A), VMDL003001B012, MDL0030-01B-012(U01A), VMCL001901A012, MCL0019-01A-012(U01A), VMCL001901B012, MCL0019-01B-012(U01A), VMCL001901C020, MCL0019-01C-020(U01A), VMCL001901D020, MCL0019-01D-020(U01A)				0-10Vdc		

3.0 Product Photographs

Photo 1 - External view of VMWA004201A008



Photo 2 - Back view of VMWA004201A008



3.0 Product Photographs

Photo 3 - Internal view of VMWA004201A008

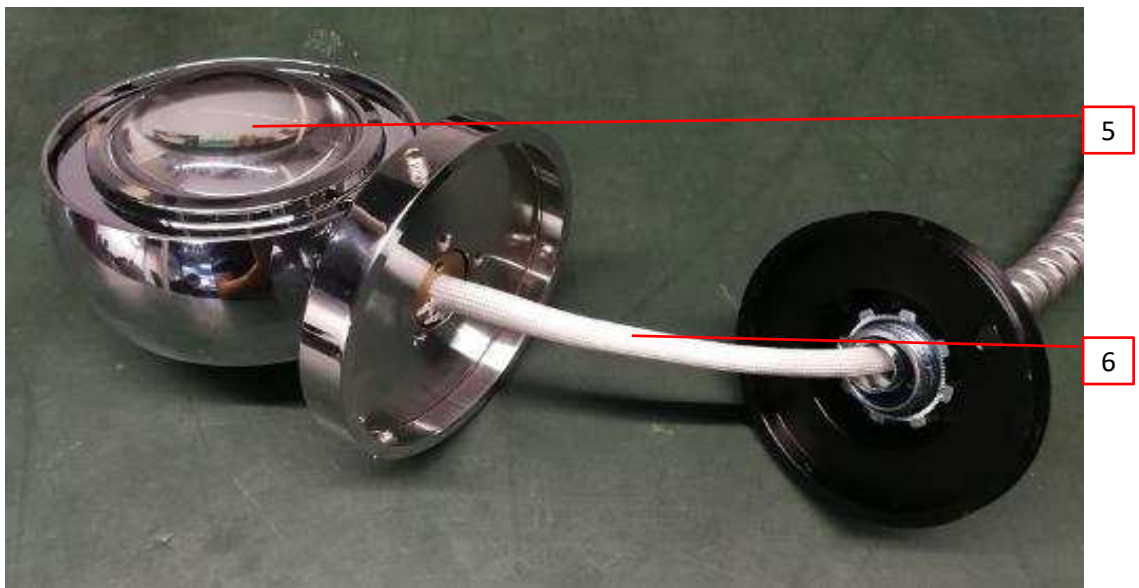


Photo 4 - LED module view of VMWA004201A008



3.0 Product Photographs

Photo 5 - External view of VMCL004601A008

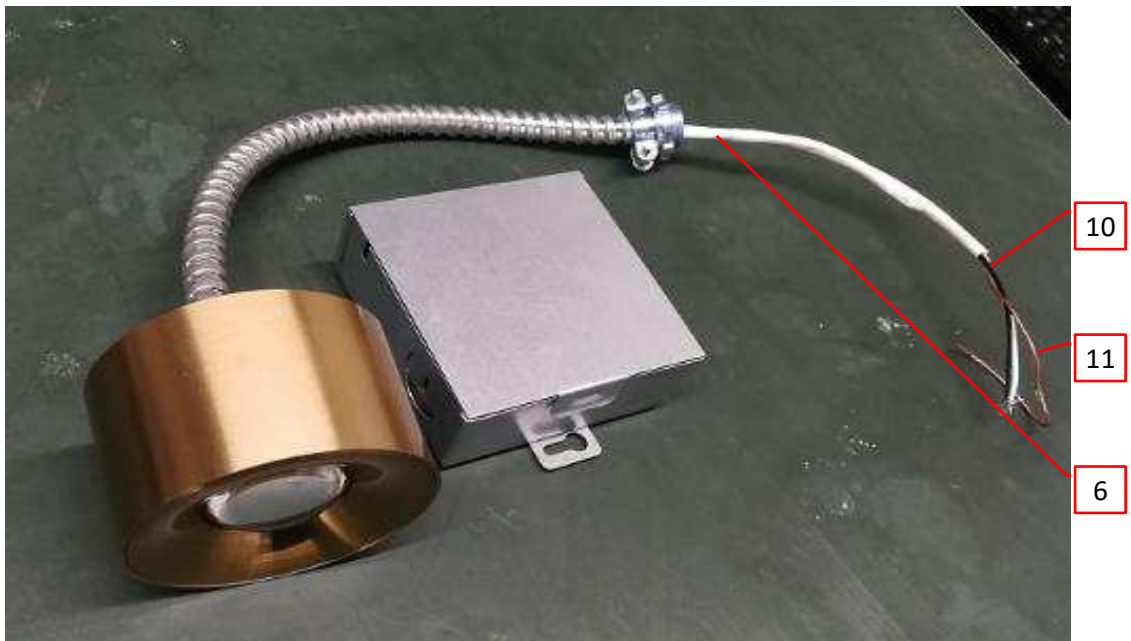


Photo 6 - Internal view of VMCL004601A008



3.0 Product Photographs

Photo 7 - LED module view of VMCL004601A008

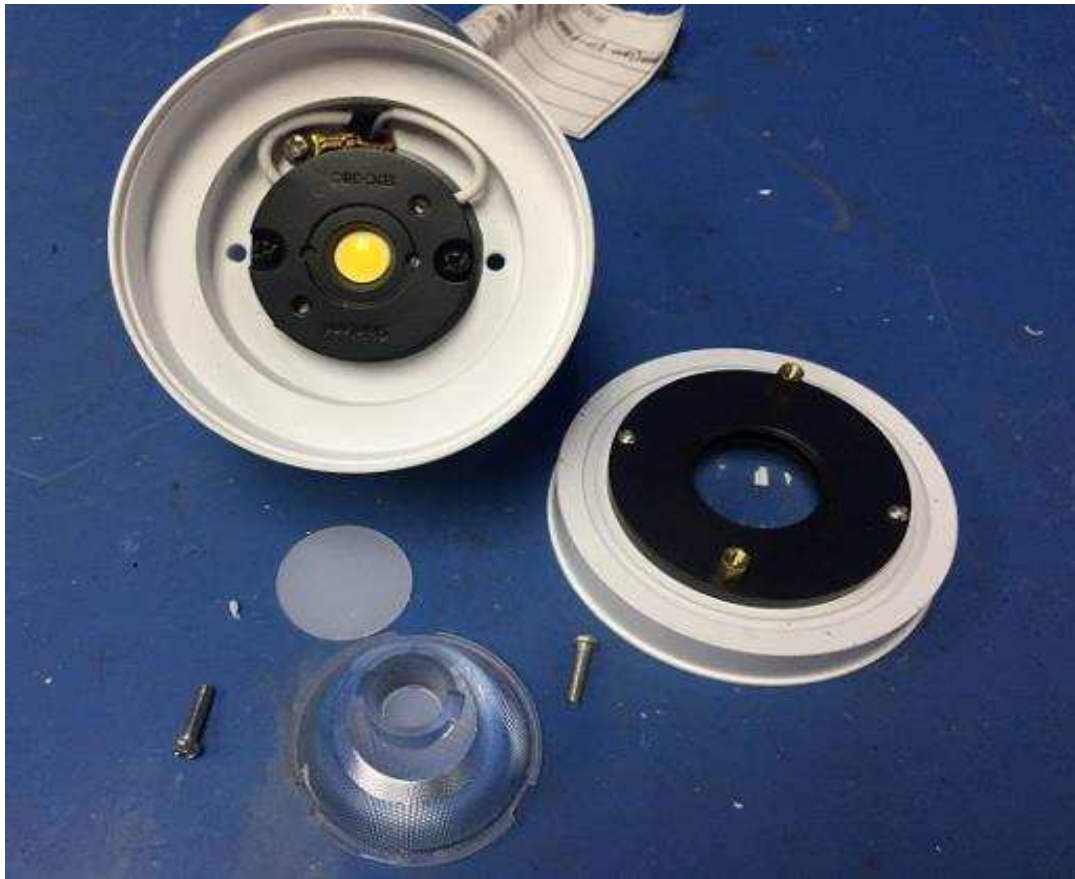


Photo 8 - External view of VMCL004701A008



3.0 Product Photographs

Photo 9 - Internal view of VMCL004701A008



Photo 10 - Adjustable joints view of VMCL004701A008



3.0 Product Photographs

Photo 11 - Internal view of VMCL004701A008



Photo 12 - External view of VMCL004101A008



3.0 Product Photographs

Photo 13 - Internal view of VMCL004101A008



Photo 14 - External view of VMDL004101A008



3.0 Product Photographs

Photo 15 - Back view of VMDL004101A008



Photo 16 - Grounding terminal view of VMDL004101A008, VMCL004101A008



3.0 Product Photographs

Photo 17 - Internal view of VMDL004101A008, VMCL004101A008

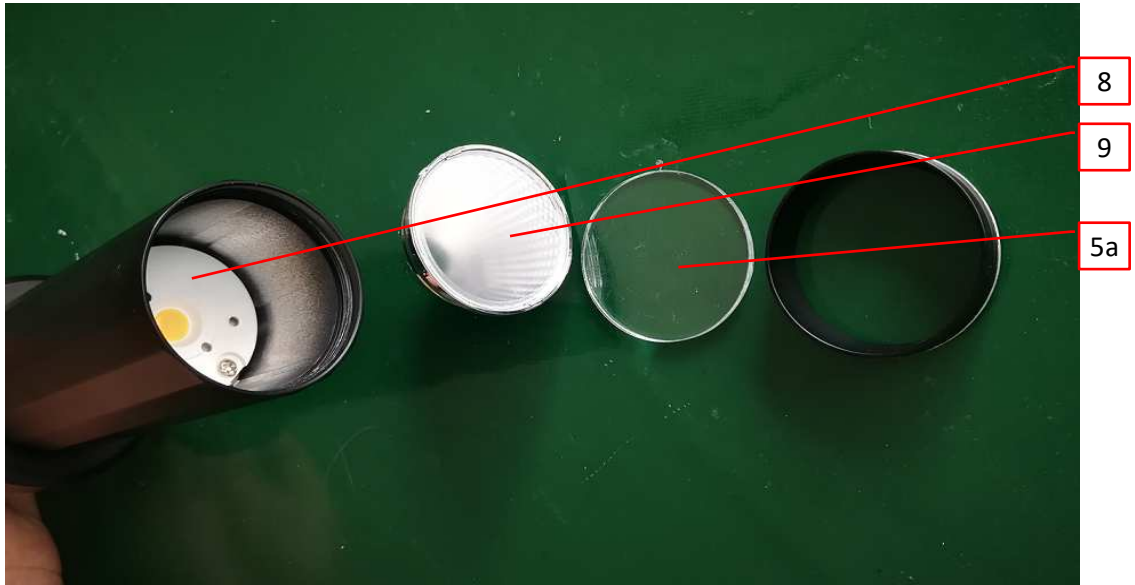
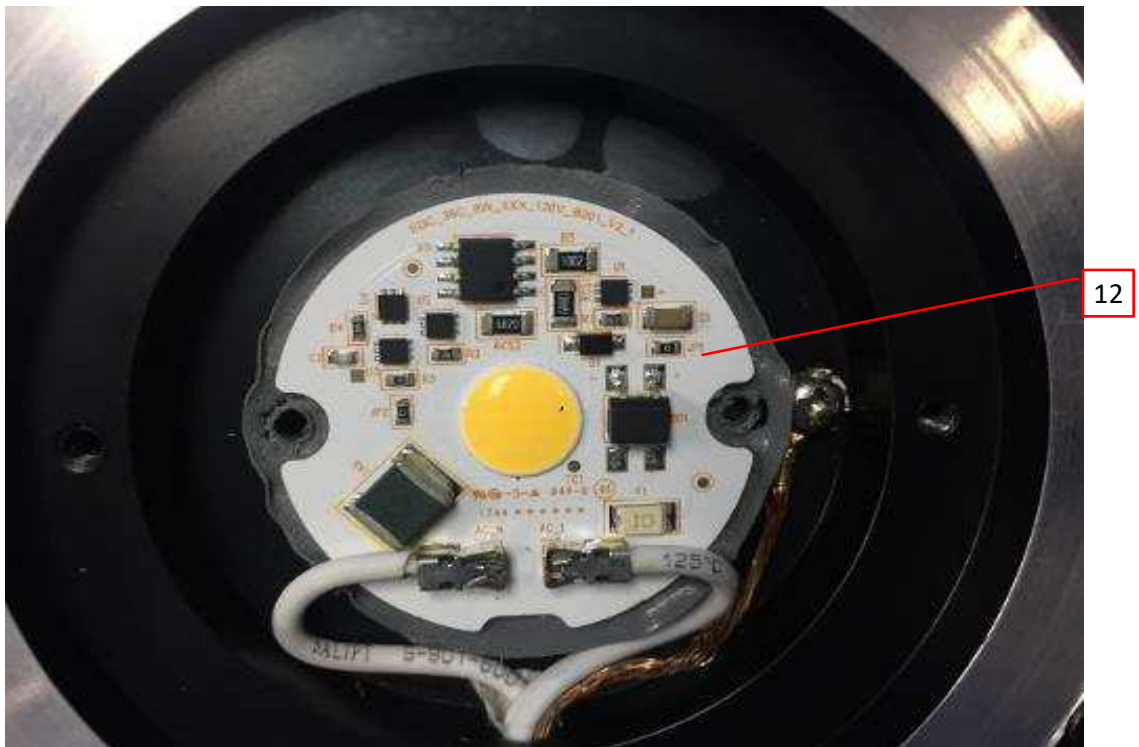


Photo 18 - LED module view of VMDL004101A008, VMCL004101A008, VMCL004701A008, VMCL004601A008



3.0 Product Photographs

Photo 19 - External view of VMCL004601B012



Photo 20 - Back view of VMCL004601B012



3.0 Product Photographs

Photo 21 - Internal view of VMCL004601B012

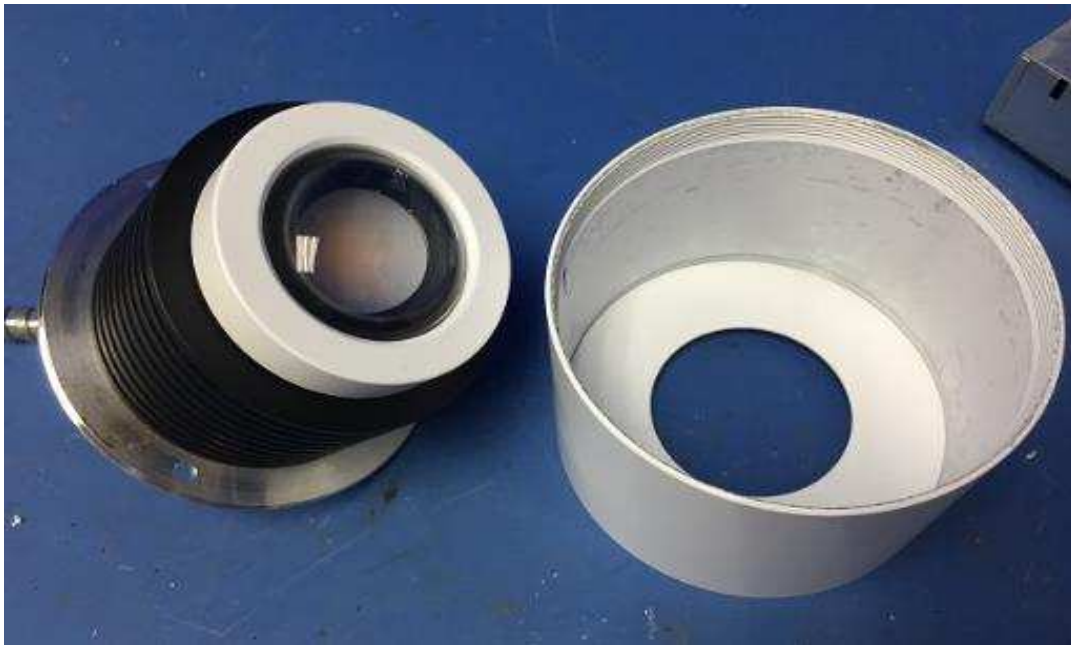


Photo 22 - LED module view of VMCL004601B012



3.0 Product Photographs

Photo 23 - LED module view of VMCL004601B012

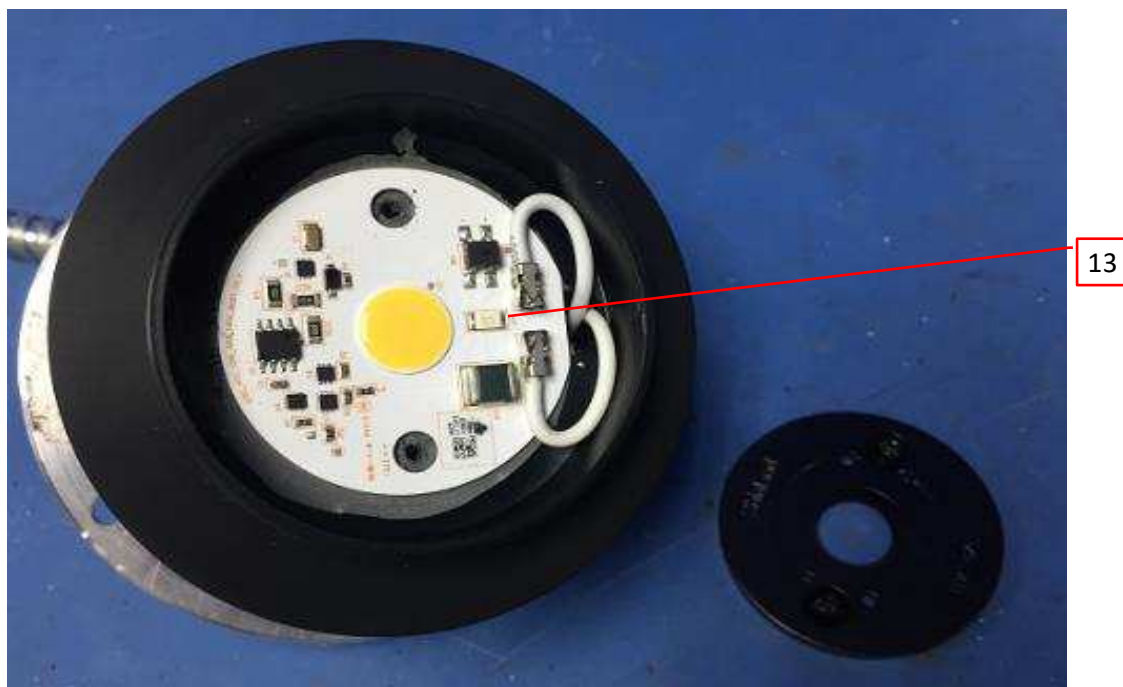
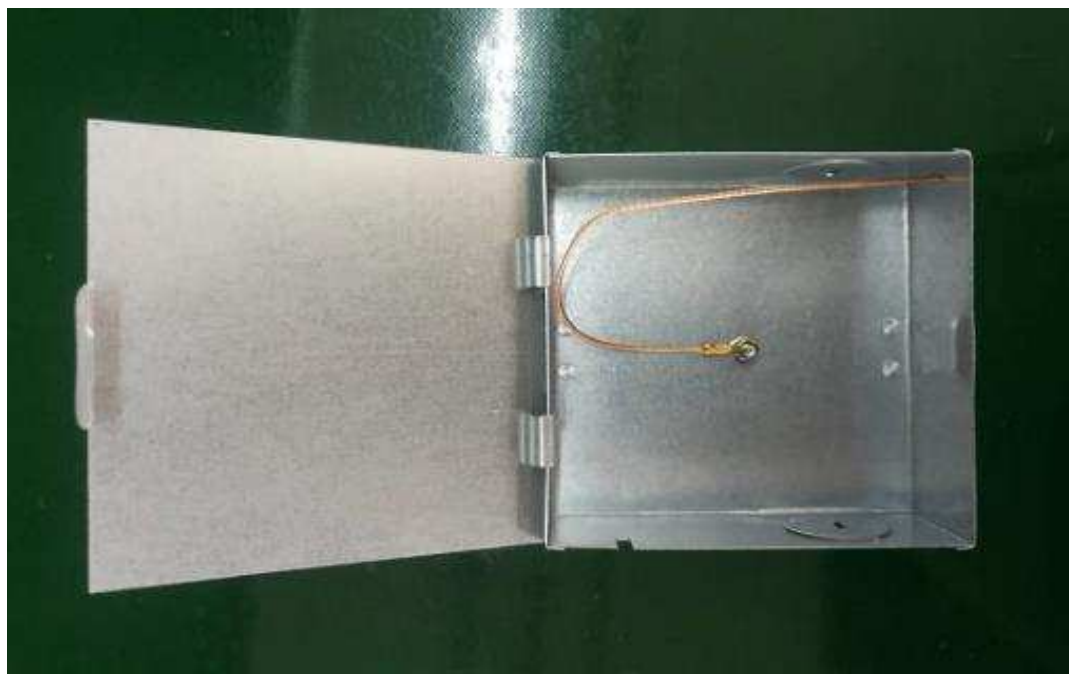


Photo 24 - Internal junction box view of VMWA004201A008, VMCL004601A008, VMCL004601B012, VMCL004701A008, VMCL004101A008, VMDL004101A008



3.0 Product Photographs

Photo 25 - External view of VMDL000601A003

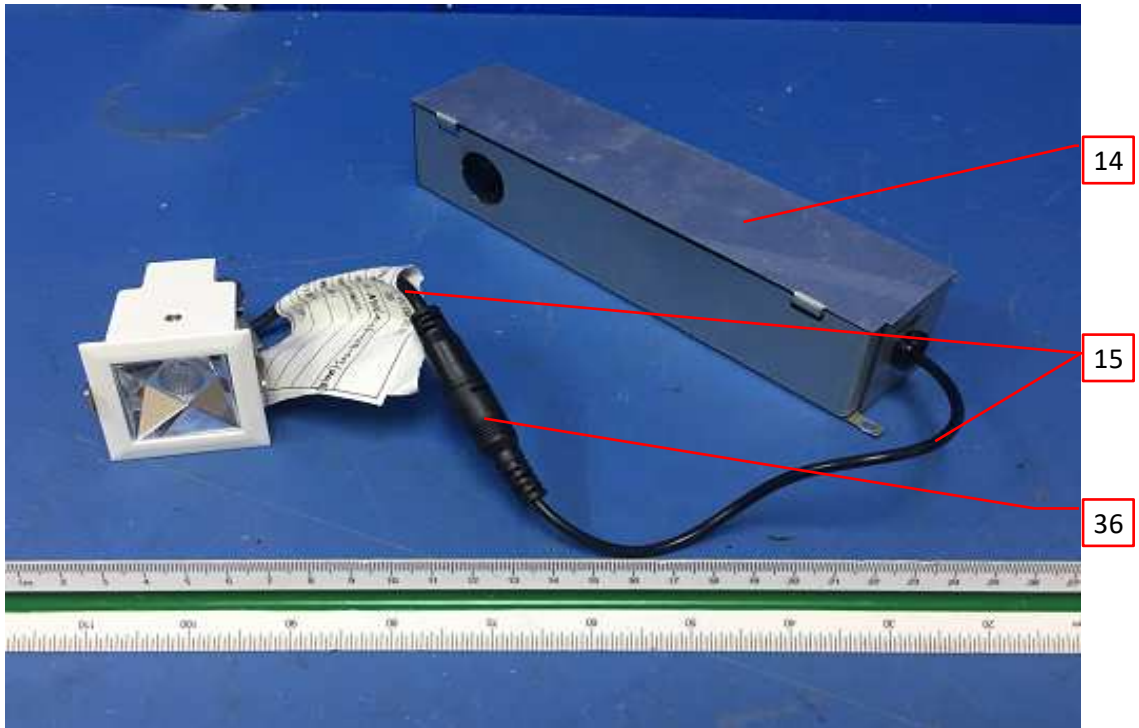
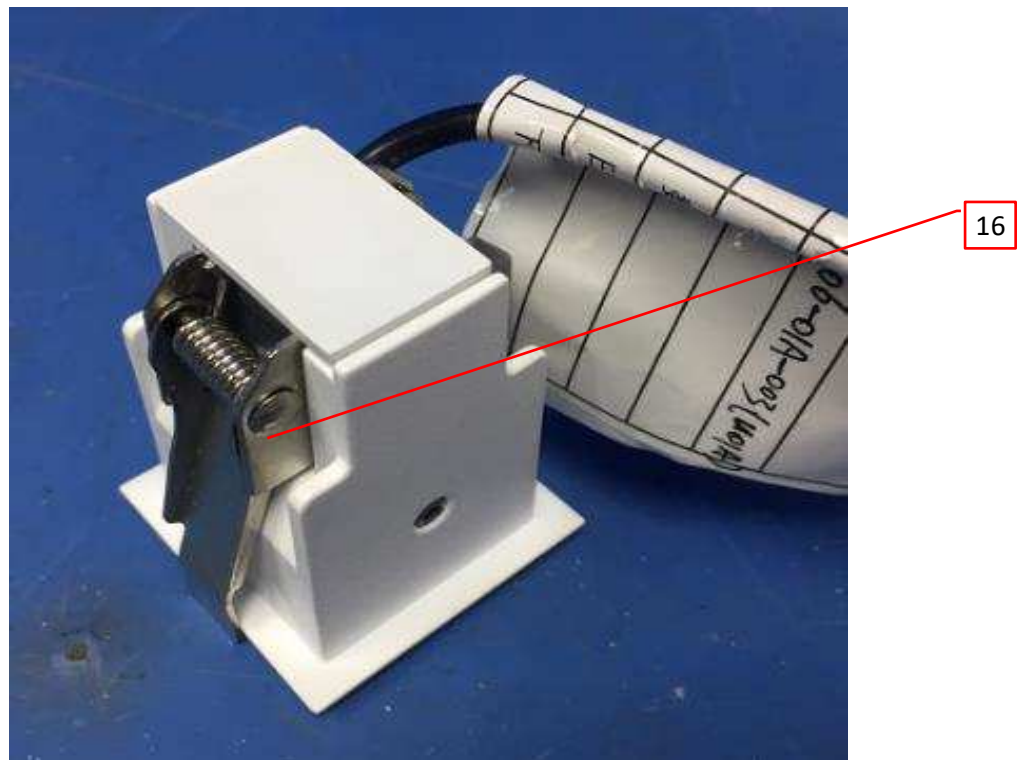


Photo 26 - Back view of VMDL000601A003

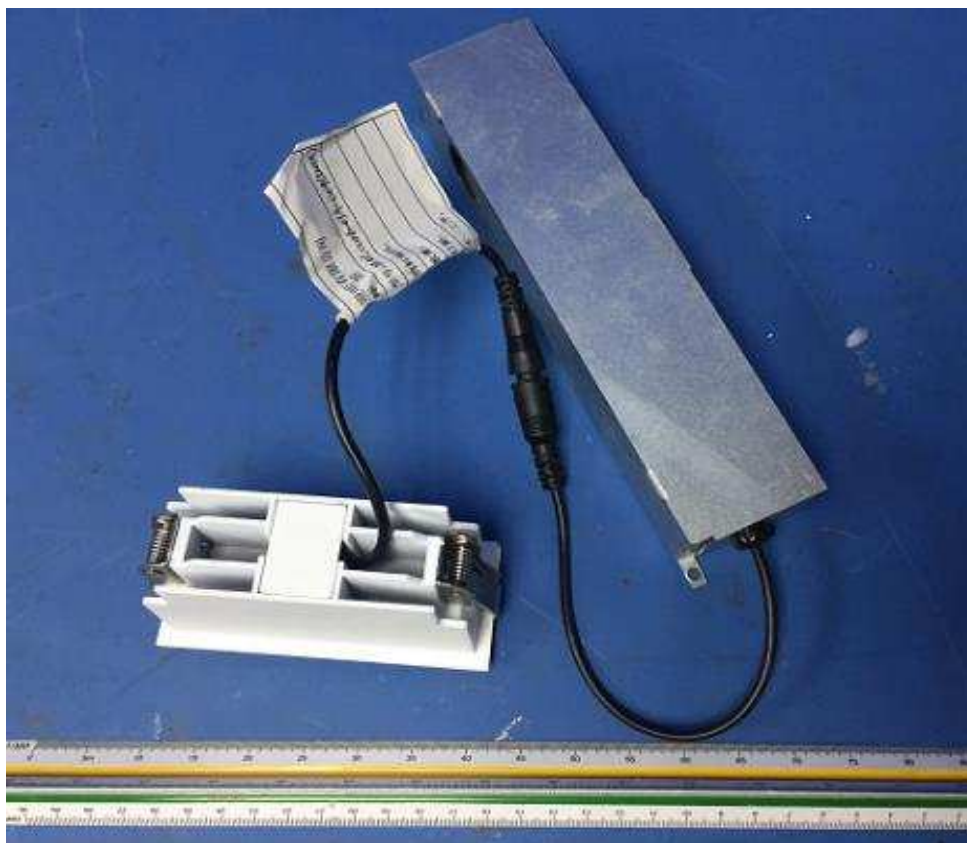


3.0 Product Photographs

Photo 27 - External view of VMDL000603A009



Photo 28 -Back view of VMDL000603A009



3.0 Product Photographs

Photo 29 -External view of VMDL000603C009

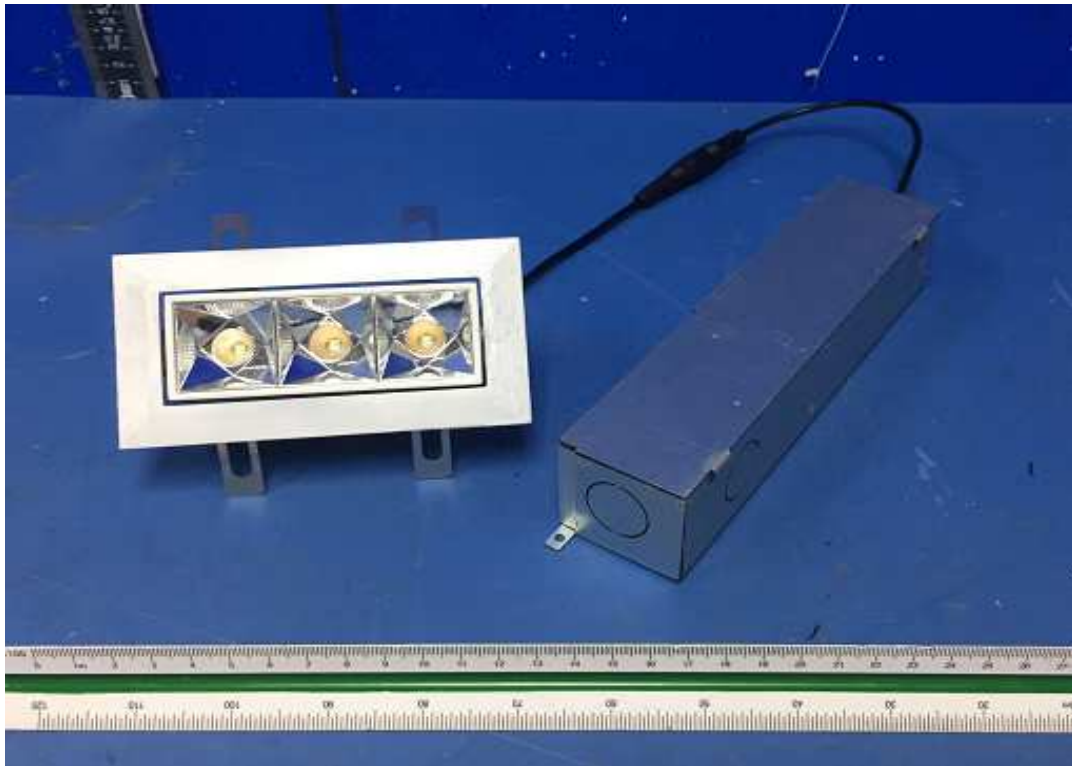
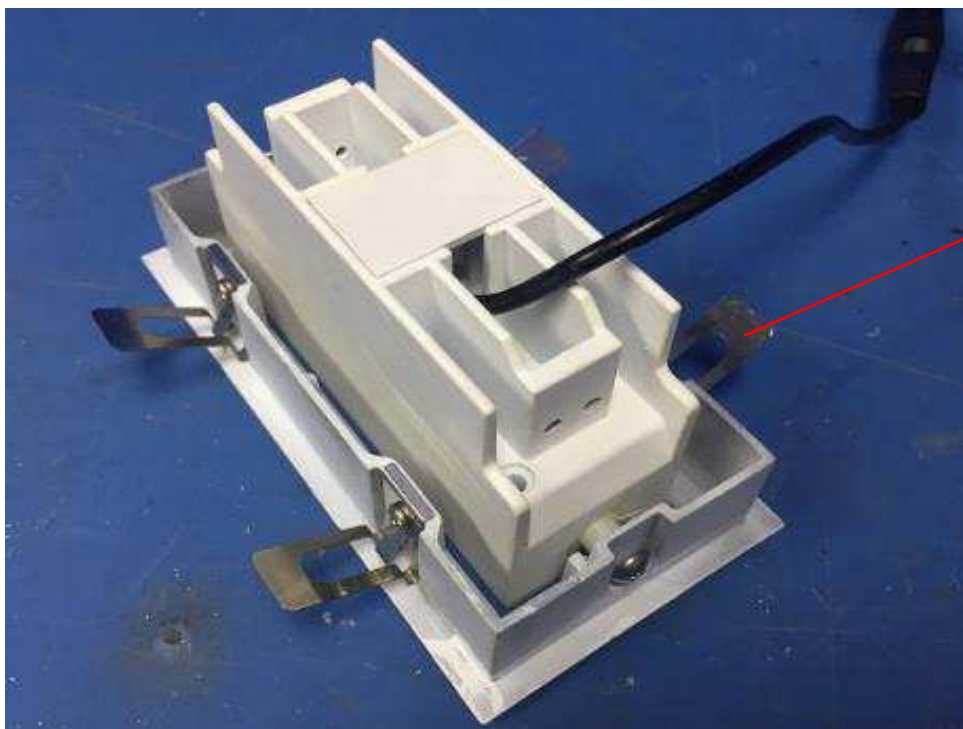


Photo 30 -Back view of VMDL000603C009



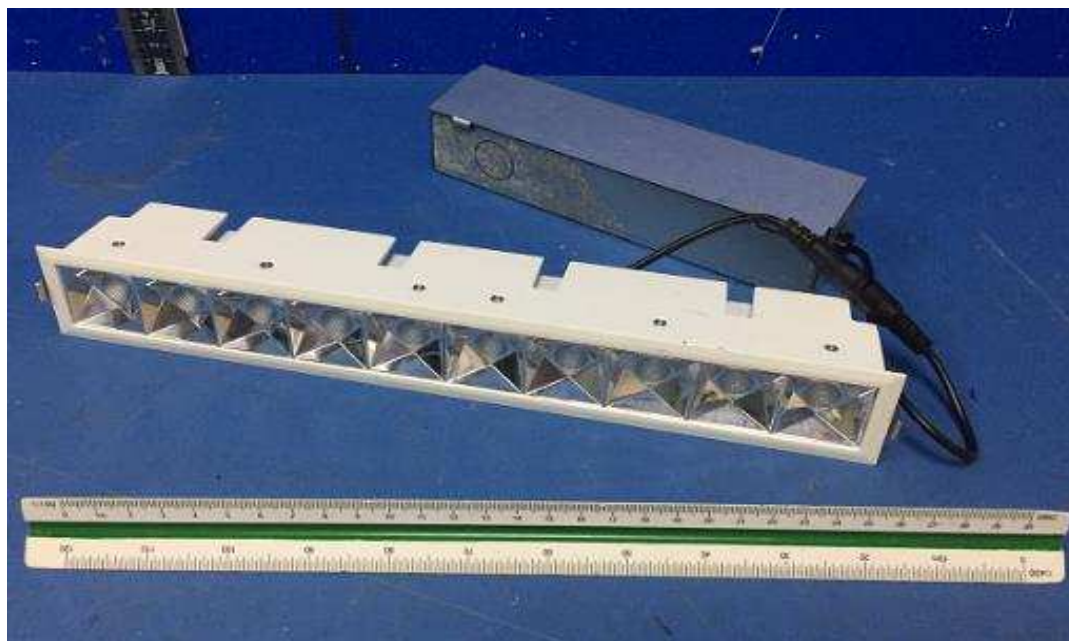
17

3.0 Product Photographs

Photo 31 - LED view of VMDL000603C009, VMDL000603A009



Photo 32 - External view of VMDL000610A024



3.0 Product Photographs

Photo 33 -Back view of VMDL000610A024

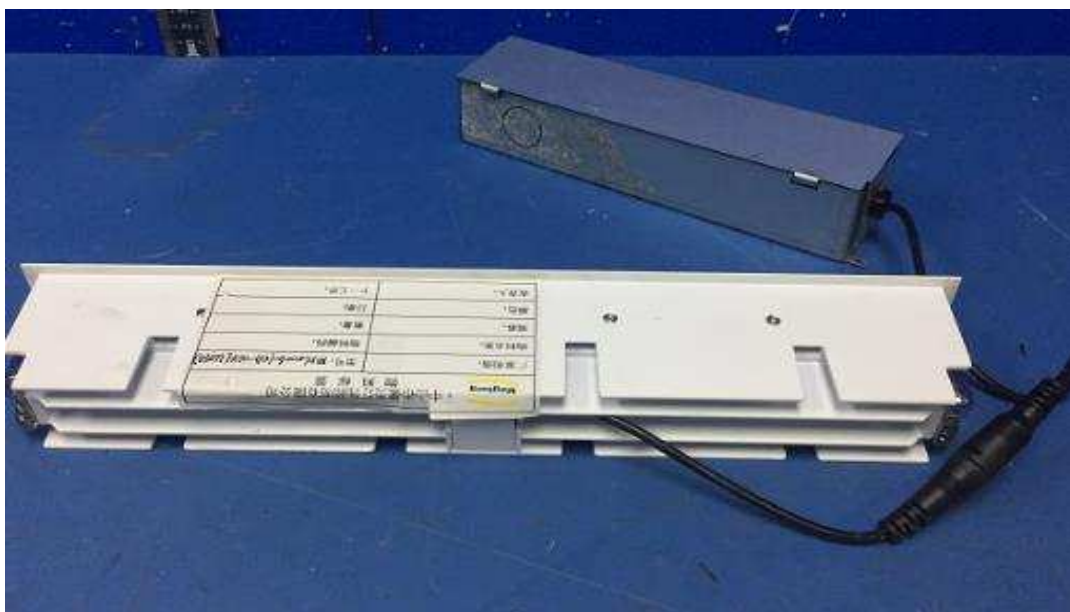
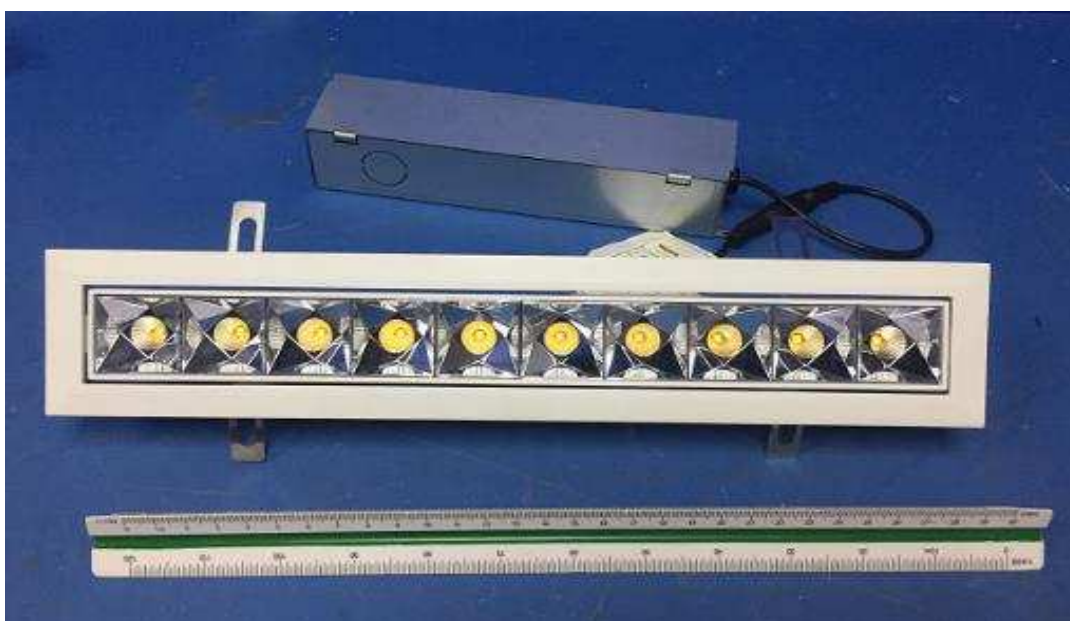


Photo 34 -External view of VMDL000610C024



3.0 Product Photographs

Photo 35 - Back view of VMDL000610C024

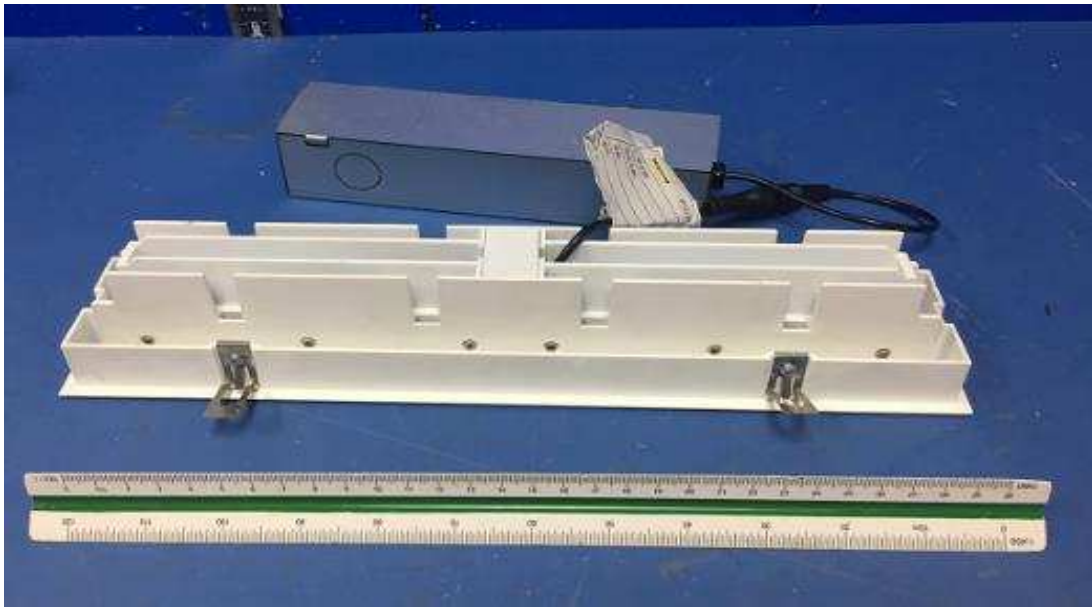


Photo 36 - LED view of VMDL000610C024, VMDL000610A024



3.0 Product Photographs

Photo 37 - External view of VMDL000610E024

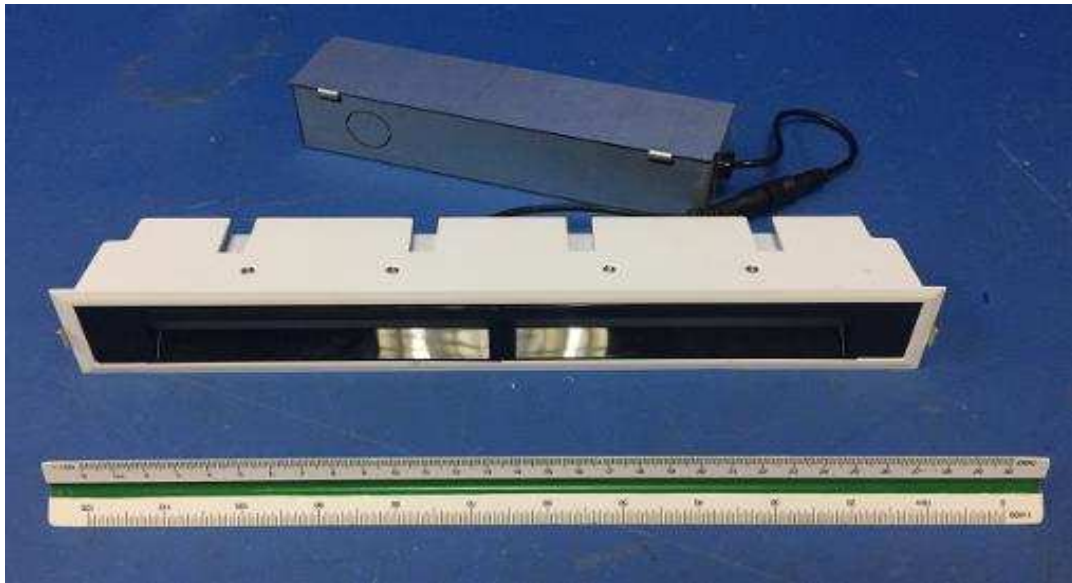
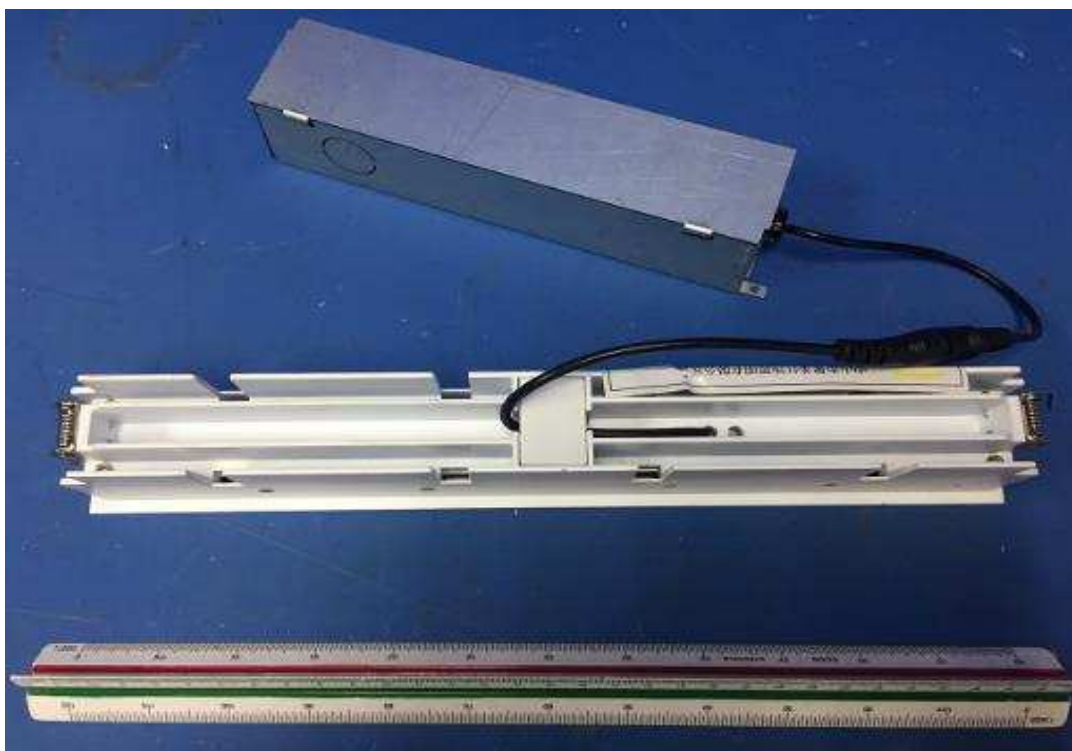


Photo 38 - Back view of VMDL000610E024



3.0 Product Photographs

Photo 39 - LED view of VMDL000610E024

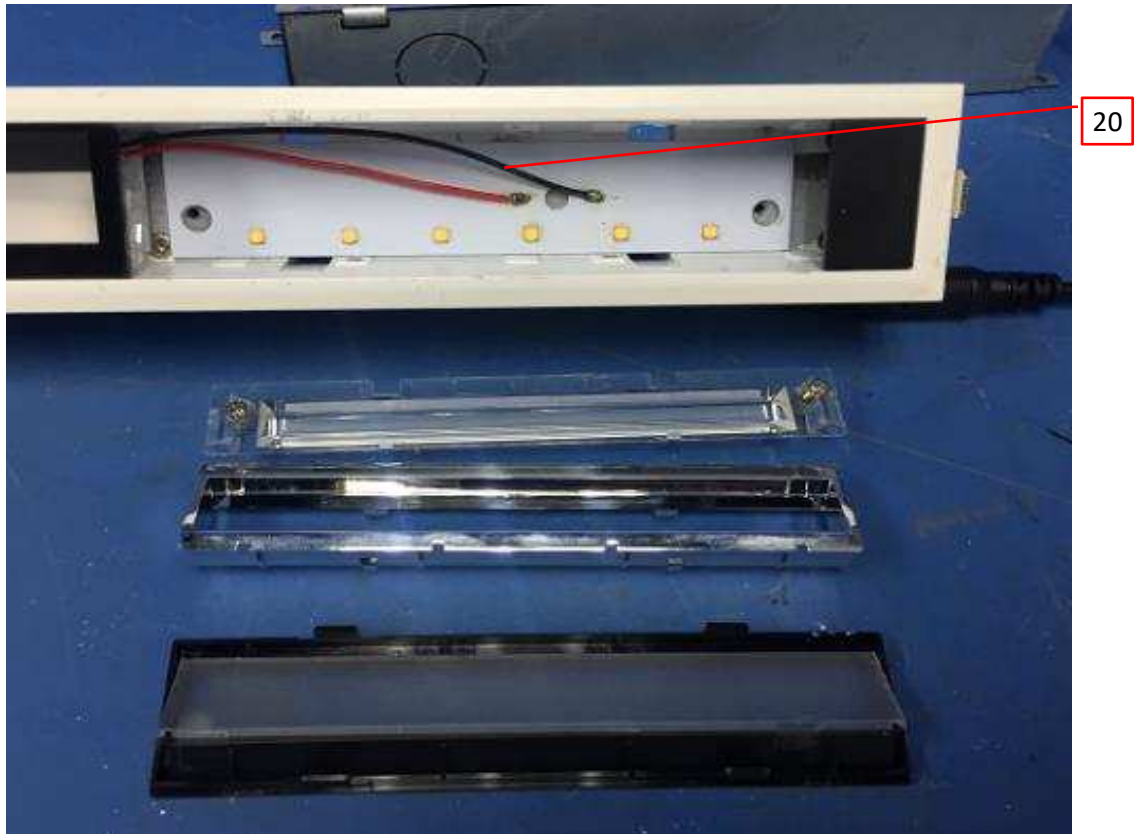
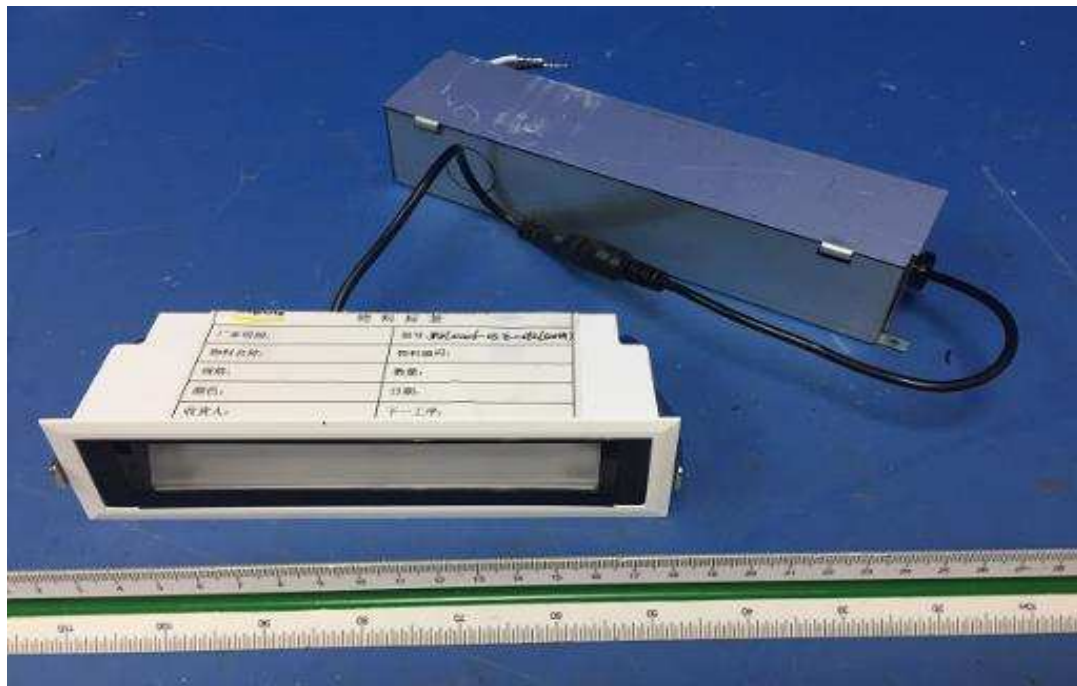


Photo 40 - External view of VMDL000605E012



3.0 Product Photographs

Photo 41 - Back view of VMDL000605E012



Photo 42 - LED view of VMDL000605E012



3.0 Product Photographs

Photo 43 - External view of VMDL000605A012

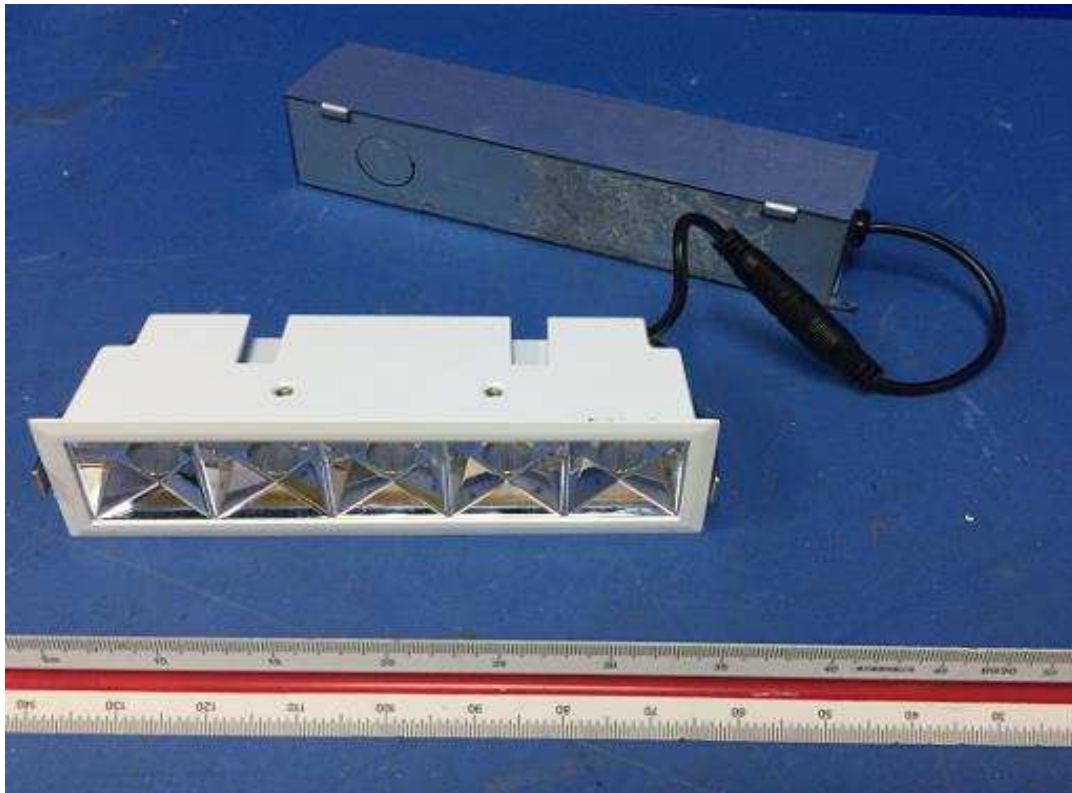
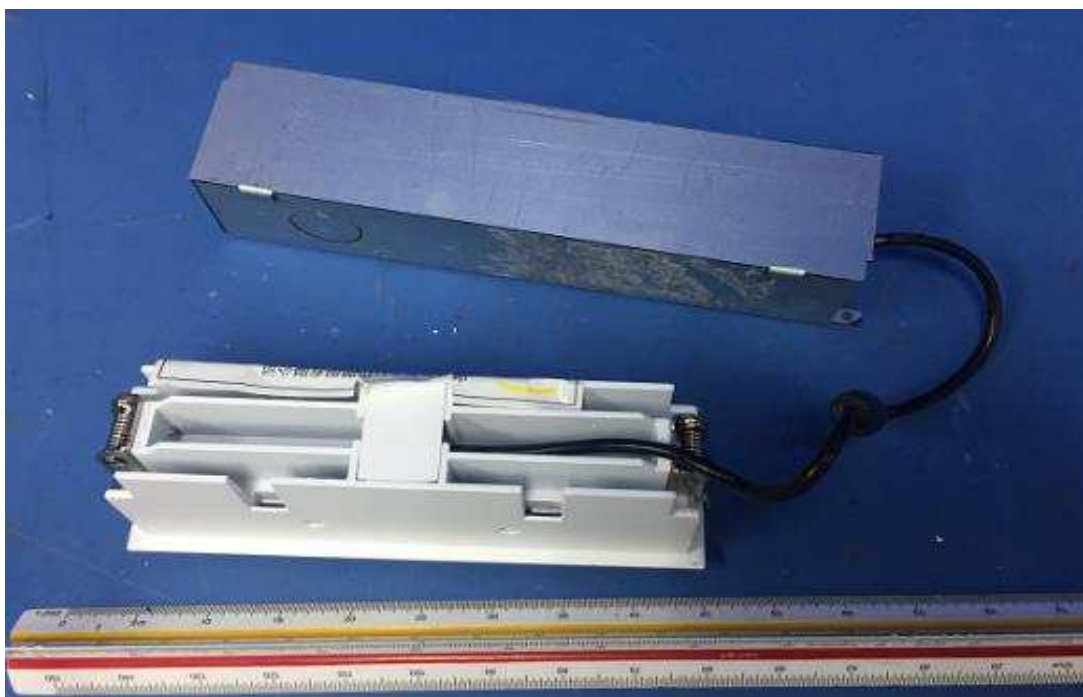


Photo 44 - Back view of VMDL000605A012

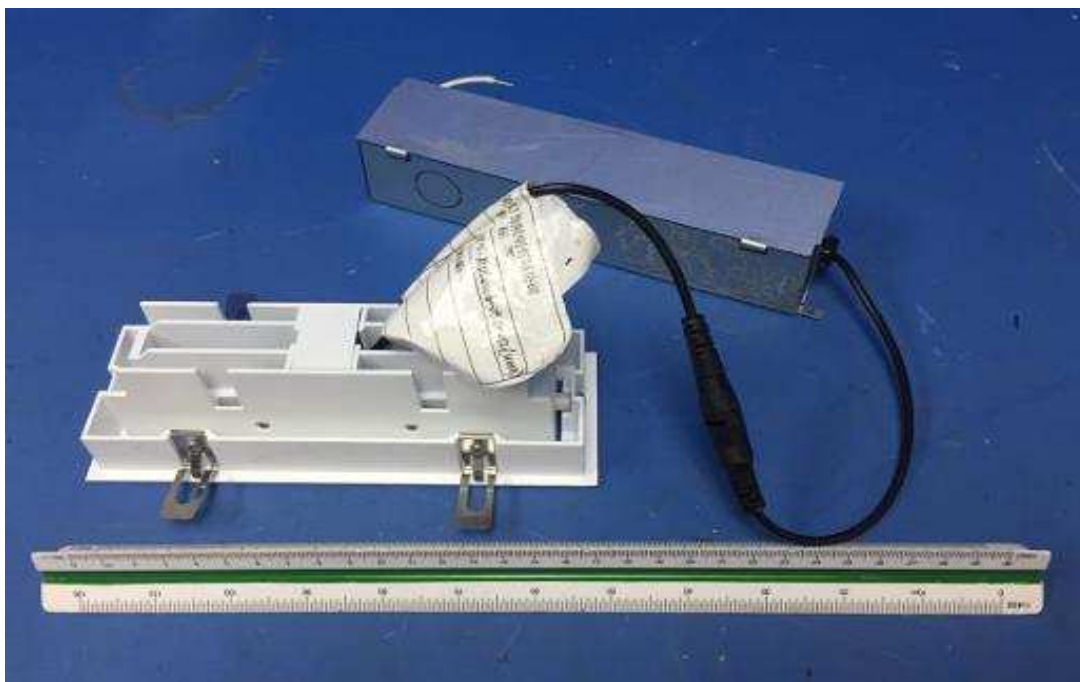


3.0 Product Photographs

Photo 45 - External view of VMDL000605C012



Photo 46 - Back view of VMDL000605C012



3.0 Product Photographs

Photo 47 - External view of VMCL000605D012



Photo 48 - Back view of VMCL000605D012

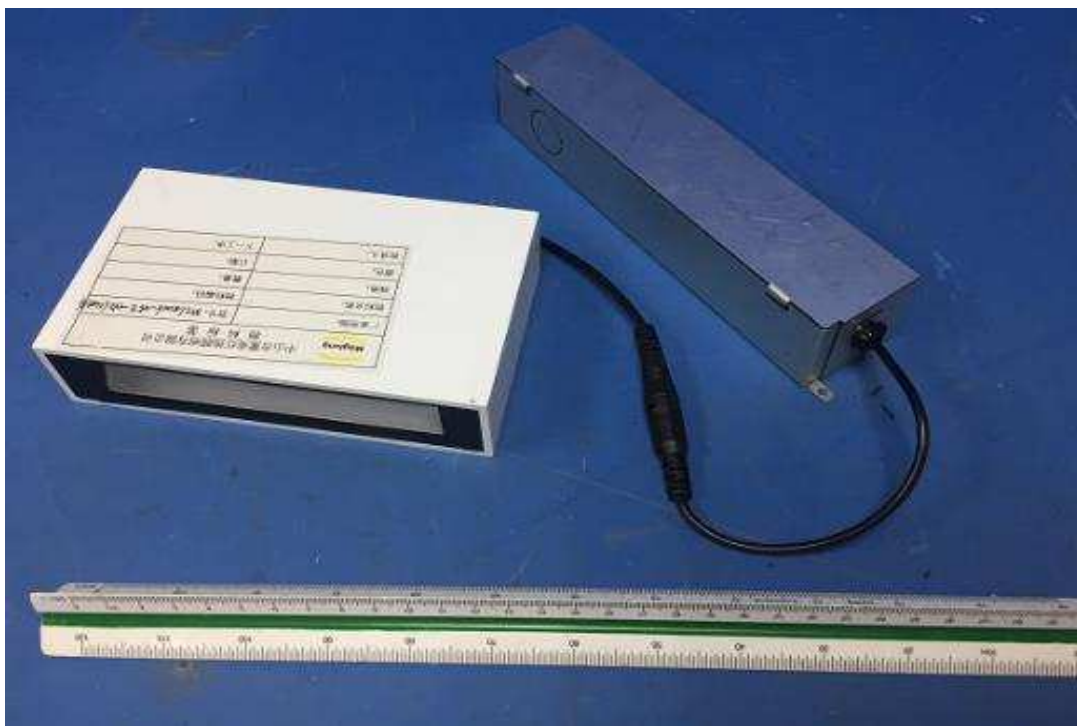


3.0 Product Photographs

Photo 49 - LED view of VMCL000605D012, VMDL000605A012, VMDL000605C012



Photo 50 - External view of VMCL000605E012



3.0 Product Photographs

Photo 51 - Internal view of VMCL000605E012, VMCL000605D012

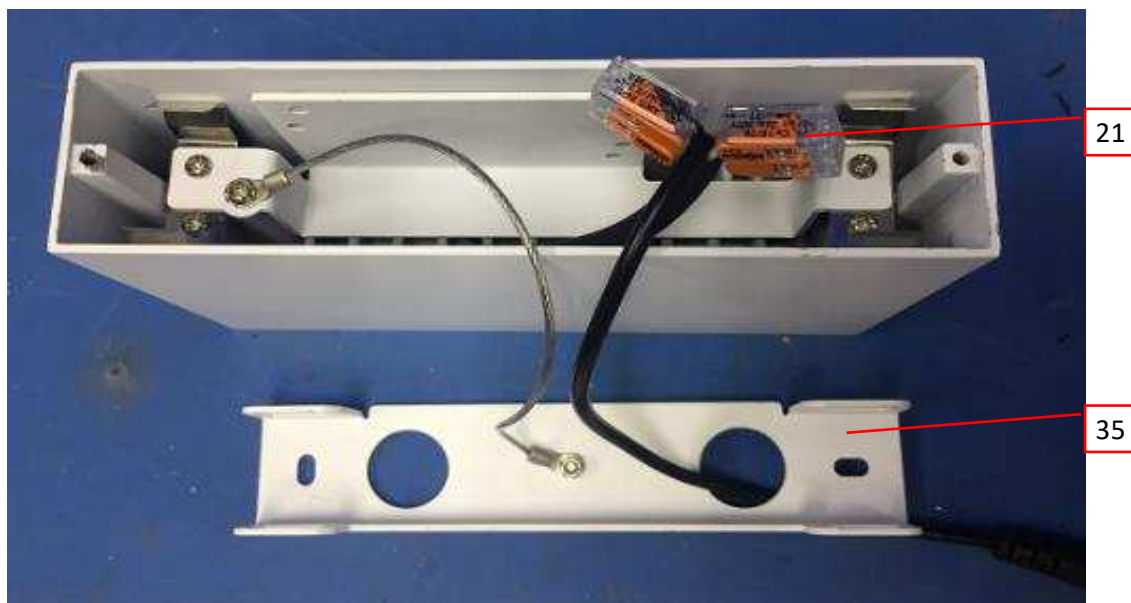
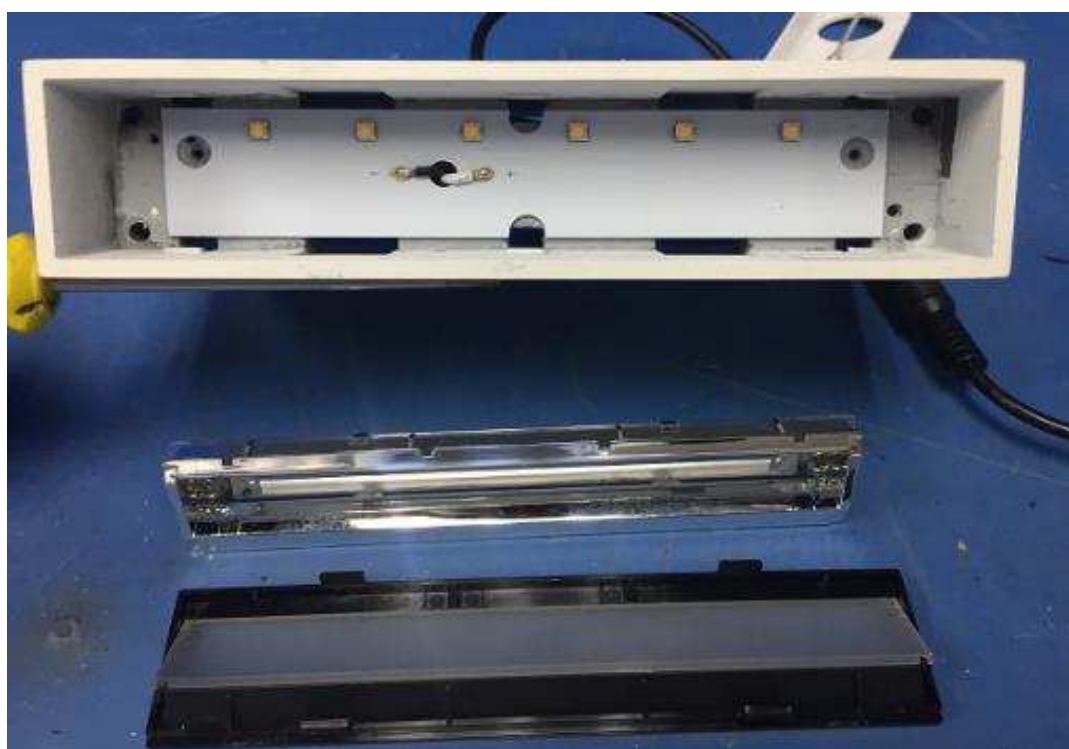


Photo 52 - LED view of VMCL000605E012



3.0 Product Photographs

Photo 53 - External view of VMCL000701A020

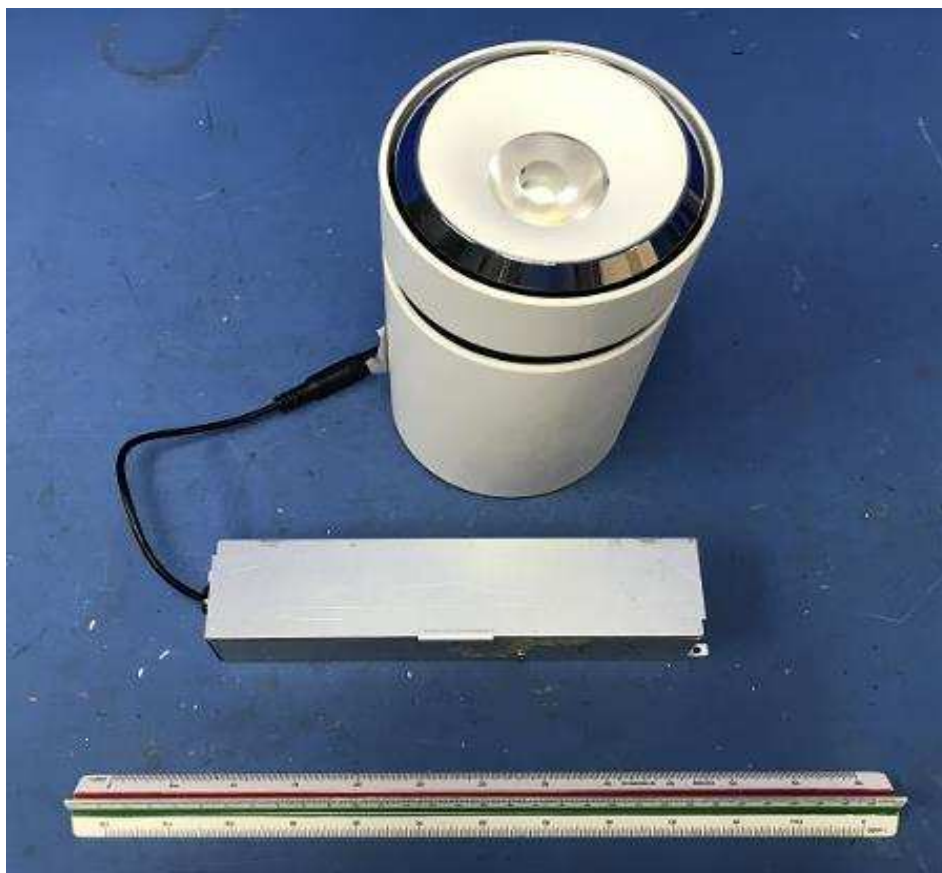


Photo 54 - Back view of VMCL000701A020



35

3.0 Product Photographs

Photo 55 - External view of VMDL000701A020



Photo 56 - External view of VMDL000701A020

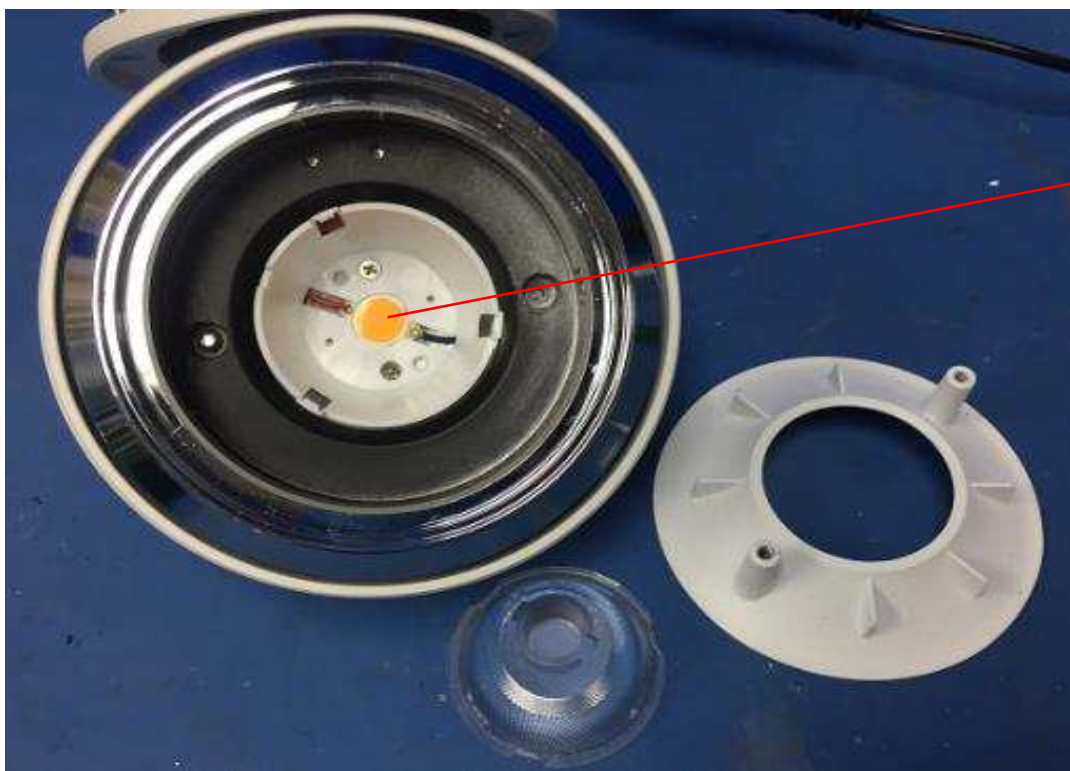


3.0 Product Photographs

Photo 57 - Adjustable joints view of VMDL000701A020, VMCL000701A020



Photo 58 - LED module view of VMDL000701A020, VMCL000701A020



22

3.0 Product Photographs

Photo 59 -External view of VMDL003001A007



Photo 59a - Alternative structure view of quick connector for VMDL003001A007



3.0 Product Photographs

Photo 60 - Adjustable lamphead view of VMDL003001A007

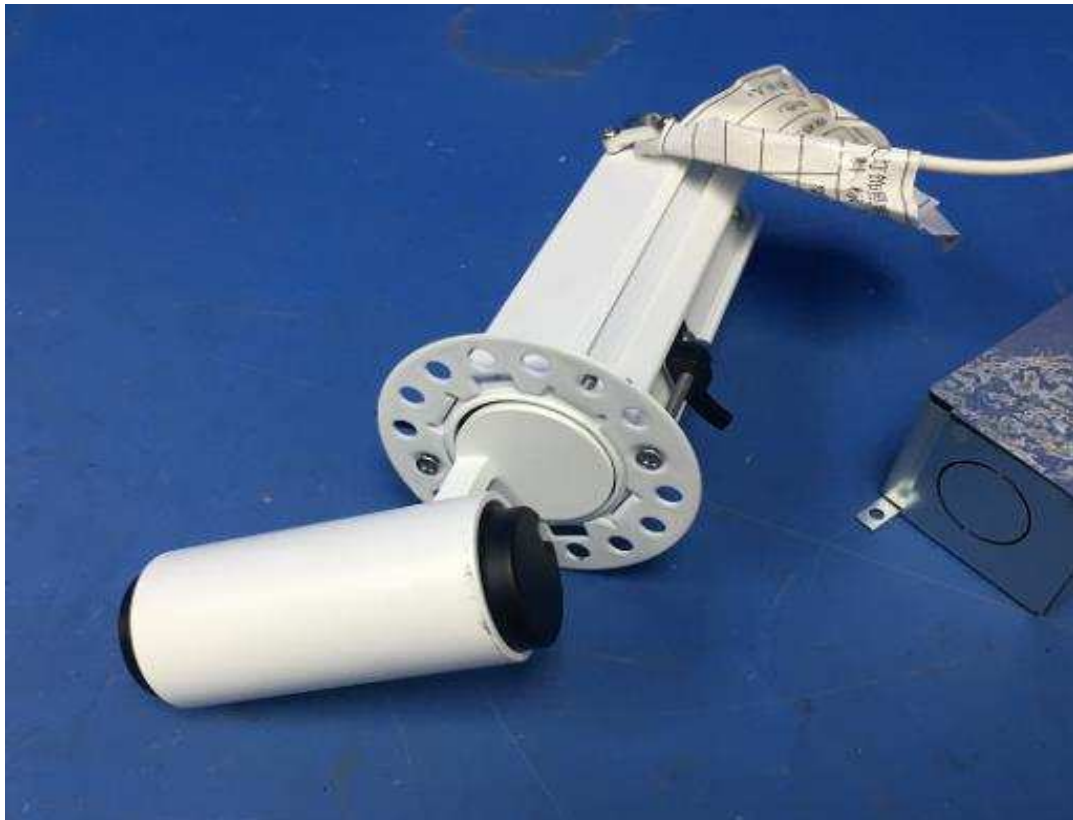
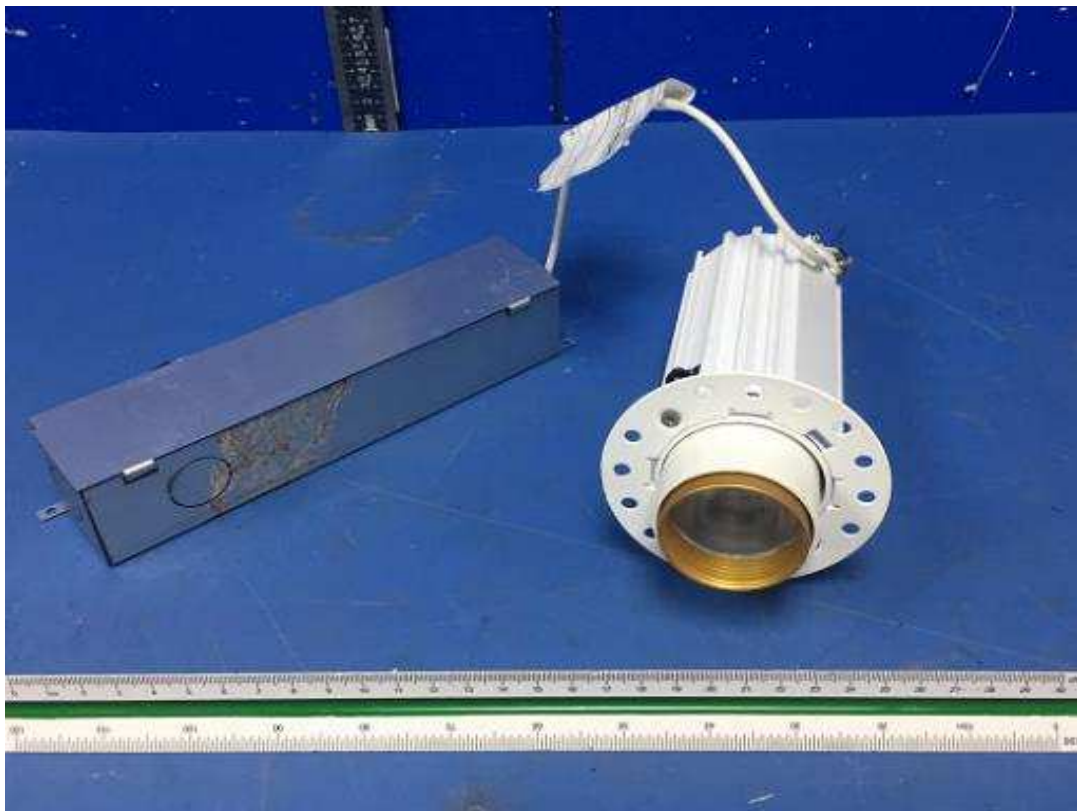


Photo 61 - External view of VMDL003001B012



3.0 Product Photographs

Photo 61a - Alternative structure view of quick connector for VMDL003001B012



Photo 62 - Adjustable lamphead view of VMDL003001B012



3.0 Product Photographs

Photo 63 - Mounting means view of VMDL003001B012, VMDL003001A007



Photo 64 - Back view of VMDL003001B012, VMDL003001A007



3.0 Product Photographs

Photo 65 - LED view of VMDL003001B012, VMDL003001A007

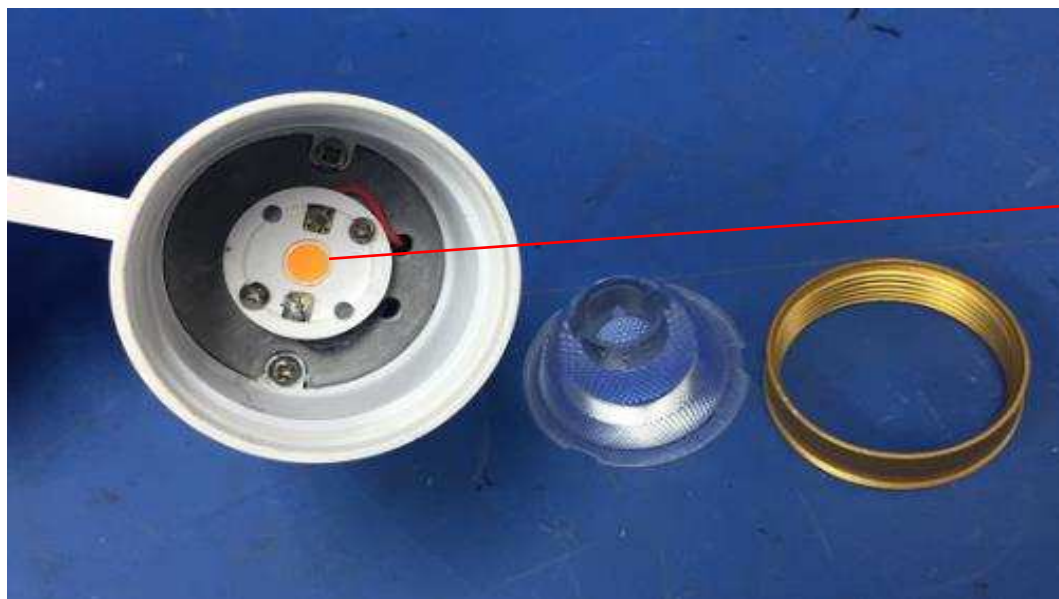
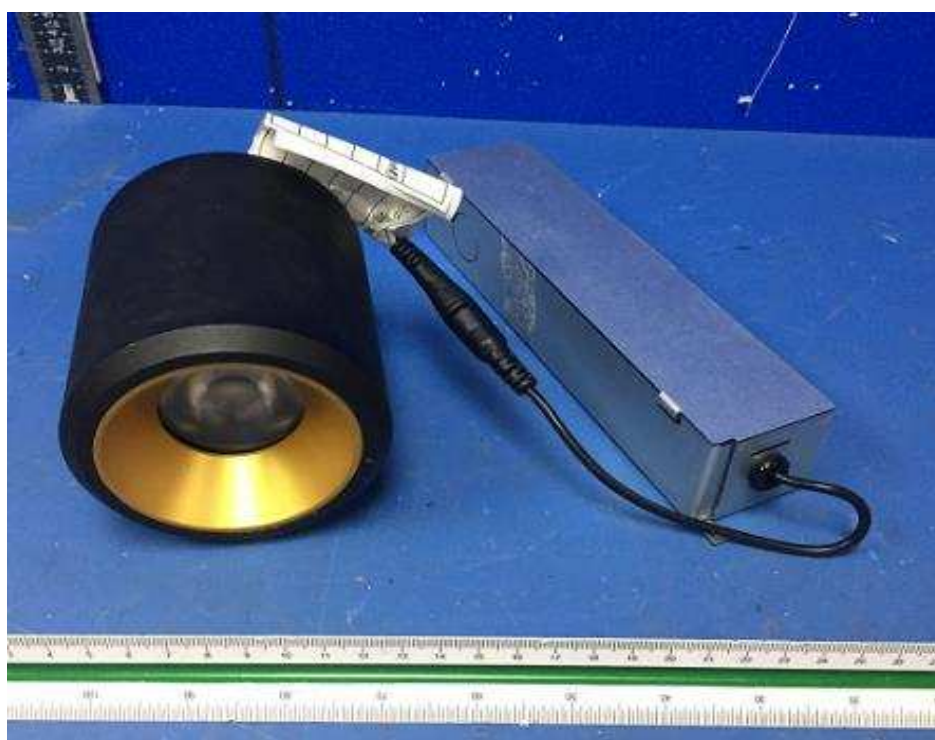


Photo 66 - External view of VMCL001901A012

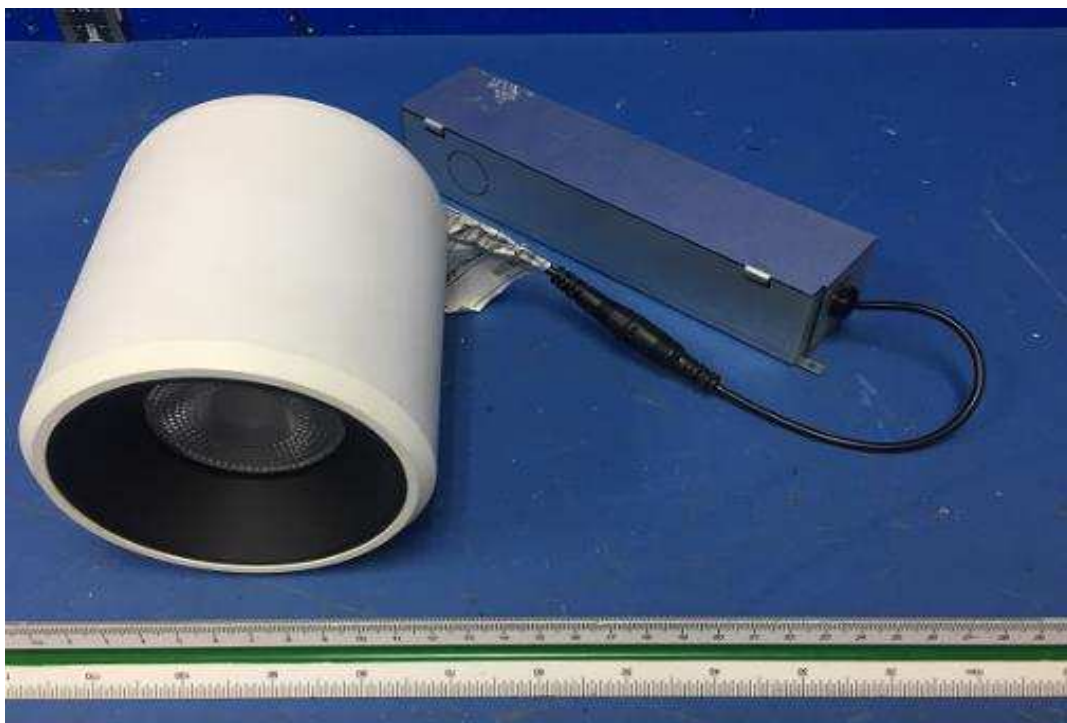


3.0 Product Photographs

Photo 67 - Back view of VMCL001901A012



Photo 68 - External view of VMCL001901C020



3.0 Product Photographs

Photo 69 - Back view of VMCL001901C020



Photo 70 - LED view of VMCL001901C020, VMCL001901A012



24

3.0 Product Photographs

Photo 71 - External view of VMCL001901D020

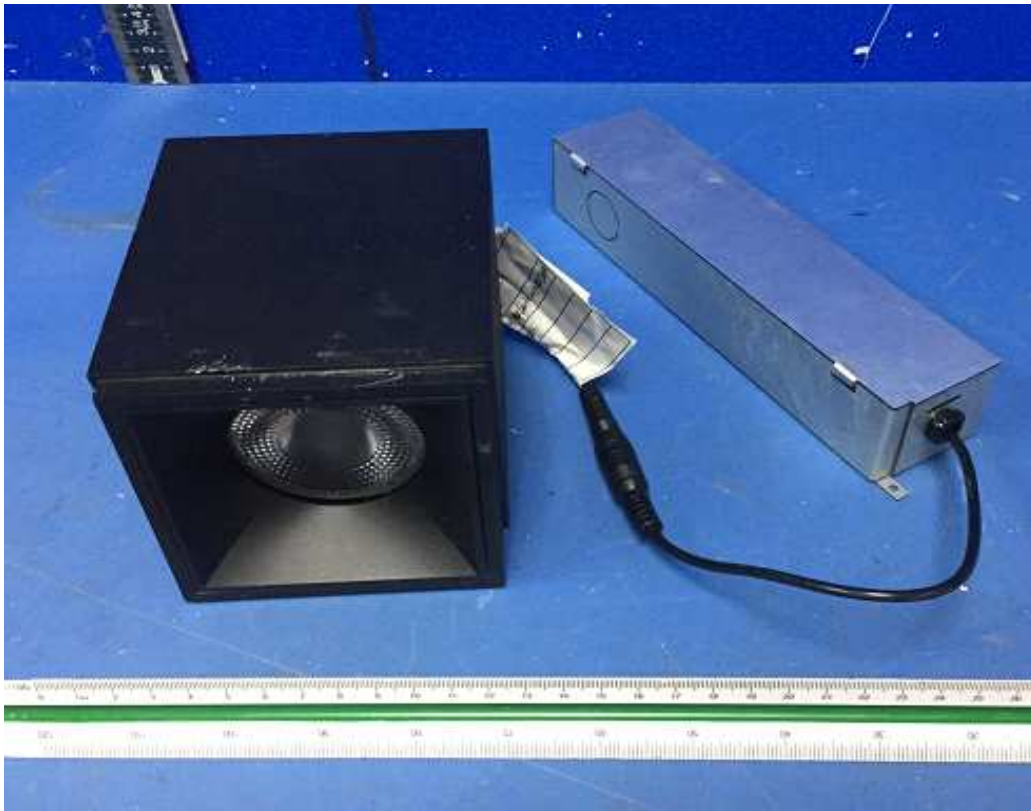


Photo 72 - Back view of VMCL001901D020

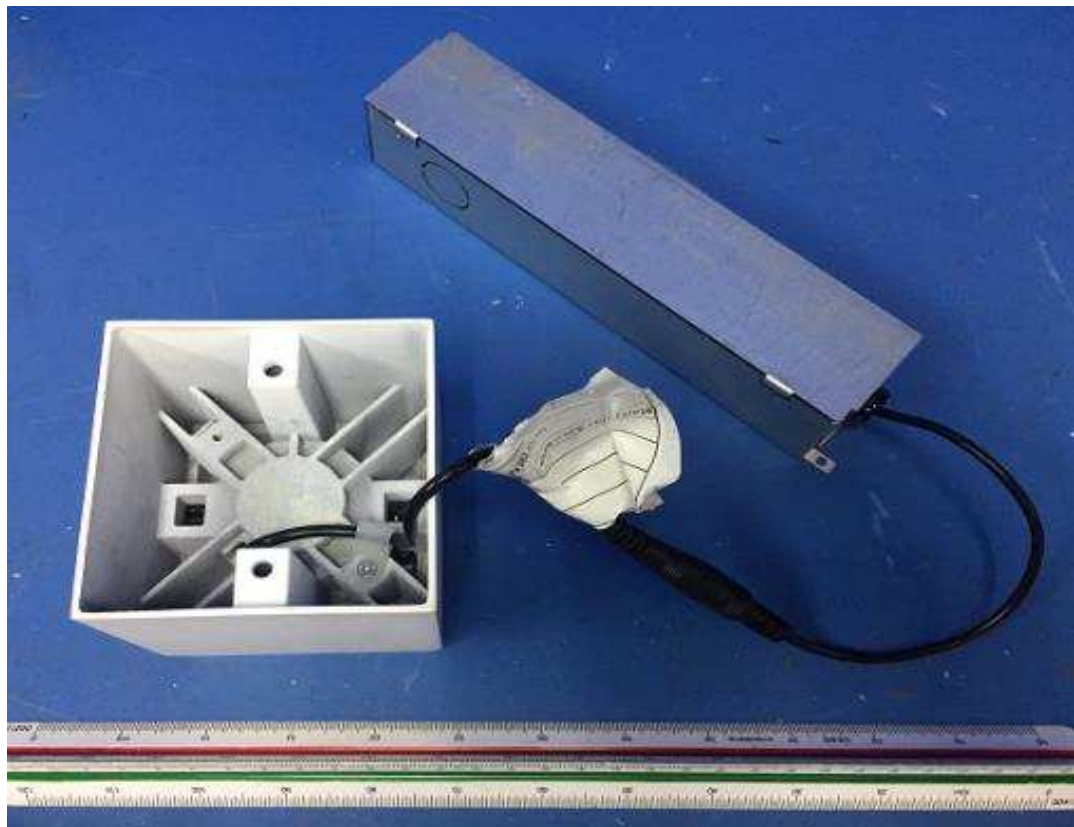


3.0 Product Photographs

Photo 73 - External view of VMCL001901B012



Photo 74 - Back view of VMCL001901B012



3.0 Product Photographs

Photo 75 - LED view of VMCL001901B012, VMCL001901D020

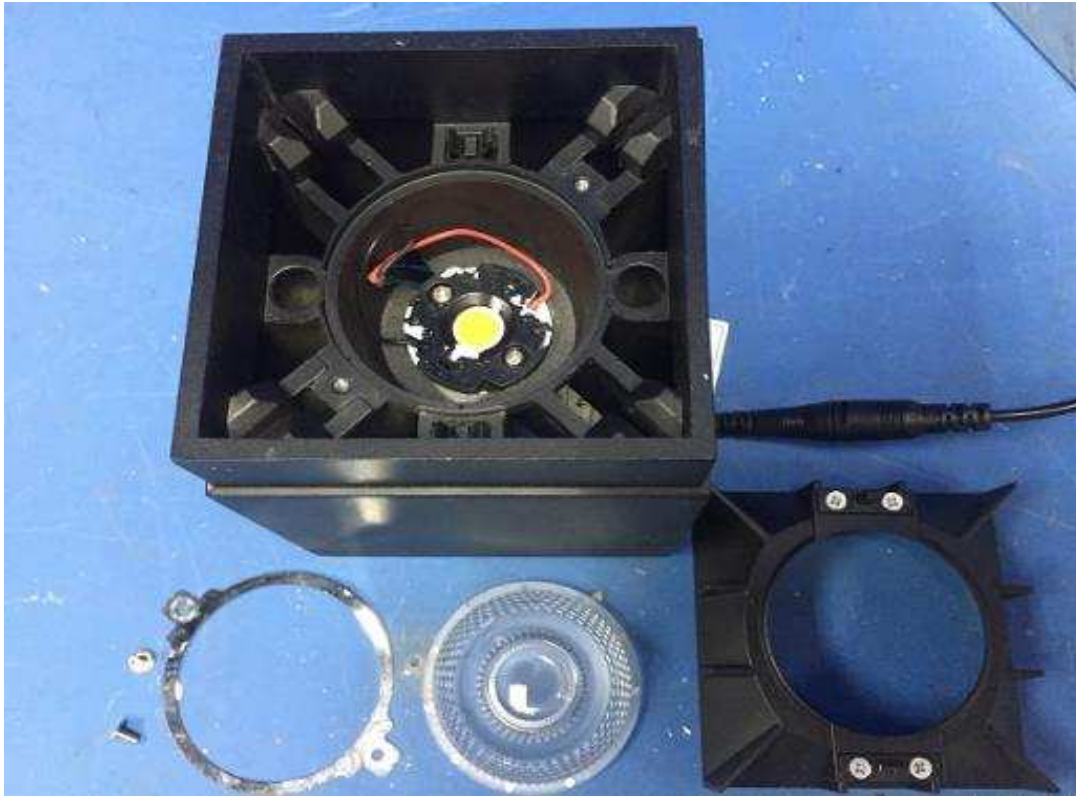
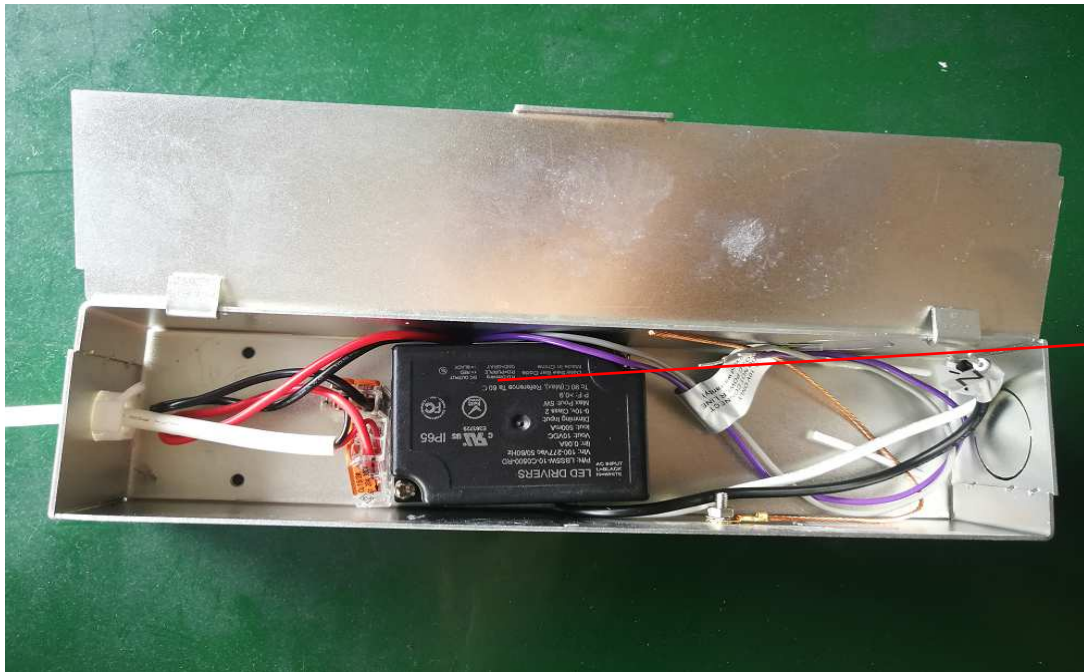


Photo 76 - Internal junction box view for VMDL000601A003, VMDL003001A007



26

3.0 Product Photographs

Photo 77 - Internal junction box view for VMDL000610C024, VMDL000610E024, VMDL000610A024



Photo 78 - Internal junction box view for VMDL000603A009, VMDL000605A012, VMDL000605E012, VMDL000603C009, VMDL000605C012, VMCL000605D012, VMCL000605E012, VMDL003001B012, VMCL001901A012, VMCL001901B012



3.0 Product Photographs

Photo 79 - Internal junction box view for VMCL000701A020, VMDL000701A020, VMCL001901C020, VMCL001901D020



4.0 Critical Components						
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
1	1	Metal conduit	Various	Various	3/8", Made of metal and suitable length and diameter for actual use.	cULus
1, 2	2	Conduit fitting	Various	Various	3/8", secured by integrated screw ring.	cULus
1	3	Junction box-1	Various	Various	Sheet aluminum with min. 0.66mm thick. Size: 34*88*87mm For models refer to ill. 2.	NR
2	4	Mounting plate	Various	Various	Sheet aluminum with min.1.2mm thick. For models refer to ill. 2.	NR
3	5	Glass lens-1	Various	Various	Glass material with min. 2.0mm thick, secured by mechanical means that can't be removed by hand. For models refer to ill. 2.	NR
17	5a	Glass lens-2	Various	Various	Glass material with min. 2.1mm thick, secured by mechanical means that can't be removed by hand. For models refer to ill. 2.	NR
3, 5	6	Glass fibre sleeving	Various	Various	min. 0.25mm thick, severed as mechanical protection.	NR
4	7	LED module-1	LUMENS CO LTD	EDC_38C_4W_XXX_120V_B001	120V, 60Hz, 4W, 1 COB LED. For models refer to ratings of sec. 2.0.	cURus
4, 17	8	Plastic part	TEIJIN CHEMICALS PLASTIC COMPOUNDS SHANGHAI LTD	L-1225U(f1) series	PC material, V-2, min. 1.45mm thick, RTI:115. secured by screws and used to secure LED module. For models refer to ill. 2.	cURus
4, 17	9	Plastic diffuser	TEIJIN CHEMICALS PLASTIC COMPOUNDS SHANGHAI LTD	L-1225U(f1) series	PC material, V-2, min. 0.75mm thick, RTI:115. secured by screws and used to secure LED module. For models refer to ill. 2.	cURus
5	10	Supply wire	Various	Various	AWM, min. 300V, min. 105°C, min. 18AWG, connected to LED module. For models refer to ill. 2.	cURus or cETLus recognized
5	11	Grounding wire	Various	Various	Bare copper wiring with min. 18AWG.	NR
18	12	LED module-2	LUMENS CO LTD	EDC_38C_8W_XXX_120V_B001	120V, 60Hz, 8W, 1 COB LED. For models refer to ratings of sec. 2.0.	cURus
23	13	LED module-3	LUMENS CO LTD	EDC_47C_12W_XXX_120V_B001	120V, 60Hz, 12W, 1 COB LED. For models refer to ratings of sec. 2.0.	cURus
25	14	Junction box-2	Various	Various	Sheet steel metal with min.1.1mm thick. Size: L196*H40*W45mm. For models refer to ill. 2.	NR
25	15	Power limited cable	Various	CMP	Power-limited circuit cable, 22AWG x 2C, 300V, 80°C. Used as LED driver output wire and LED PCB input wire. For model details refer to ill. 2.	cULus

4.0 Critical Components						
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
26	16	Clips-1	Various	Various	Sheet steel with 1.0mm thick, integrated with spring of diameter 1.1mm. For models refer to ill. 2.	NR
30	17	Clips-2	Various	Various	Sheet steel metal with 0.66mm thick. For model details refer to ill. 2.	NR
31	18	LED-1	CREE	XPG2	If=max. 1500mA, Vf=2.8-3.15Vdc, size: 3.45*3.45*2.26mm. For model details refer to ill. 2.	NR
31	19	LED PCB	Various	Various	Single layer aluminum base, 1.2mm thick. Min. 90°C. for models details refer to ill. 2.	cURus
39	20	LED wire	Various	Various	AWM, min. 300V, min. 105°C, min. 22AWG, connected to LED module. For models refer to .ill. 2..	cURus or cETLus recognized
51	21	Quick connector	Various	Various	Min. 300V, min. 105°C, suitable for 24~18AWG conductor.	cULus or cETLus
58	22	LED-2	CITILED	CLU028-1203C4	Vf=34V, If=max. 690mA, 13.5*13.5*1.4mm, emitting area Φ 9.8mm. For models VMCL000701A020, VMDL000701A020.	NR
65	23	LED-3	EDISION	2PHM10xWxxP55020	Vf=8.7-9.5V, If= max. 1050mA, size: L13.5*W13.5*T1.4mm, emitting area Φ 3.5/5.1*T0.5mm. For models VMDL003001A007.	NR
70	24	LED-4	CITILED	CLU701-1002C4	Vf= 31.3V, If= max. 460mA, size: 13.5*13.5*1.4mm, Emitting area Φ 6mm, for models VMCL001901A012, VMCL001901B012, VMDL003001B012.	NR
70	25	LED-5 (not shown)	CITILED	CLU028-1204C4	Vf=34V, If= max. 720mA, size: 13.5*13.5*1.4mm, Emitting area Φ 9.8mm, for models VMCL001901C020, VMCL001901D020.	NR
76	26	LED driver-1	E-DRIVER CO LTD	LB5W-08-C0700-RD	Class 2, suitable for damp location. Input:100-277V, 50/60Hz, 0.08A, output: 8V DC, CC 700mA, 0-10V dimming. Tc:90. For model details refer to ratings at sec. 2.0.	cURus
78	27	LED driver-2	E-DRIVER CO LTD	LBS12W-12-C0700-RD	Class 2, suitable for damp location. Input:100-277V, 50/60Hz, 0.18A, output: 12VDC, CC 700mA, 0-10V dimming. Tc:90. For model details refer to ratings at sec. 2.0.	cURus

4.0 Critical Components						
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
78	28	LED driver-3 (not shown)	E-DRIVER CO LTD	LBS12W-16-C0580-RD	Class 2, suitable for damp location. Input:100-277V, 50/60Hz, 0.18A, output: 16VDC, CC 580mA, 0-10V dimming. Tc:90. For model details refer to ratings at sec. 2.0.	cURus
78	29	LED driver-4 (not shown)	E-DRIVER CO LTD	LBS12W-24-C0500-RD	Class 2, suitable for damp location. Input:100-277V, 50/60Hz, 0.18A, output: 24VDC, CC 500mA, 0-10V dimming. Tc:90. For model details refer to ratings at sec. 2.0.	cURus
77	30	LED driver-5	E-DRIVER CO LTD	LBS30W-42-C0700-RD	Class 2, suitable for damp location. Input:100-277V, 50/60Hz, 0.41A, output: 42VDC, CC 700mA, 0-10V dimming. Tc:90. For model details refer to ratings at sec. 2.0.	cURus
79	31	LED driver-6	E-DRIVER CO LTD	LBS20W-42-C0500-RD	Class 2, suitable for damp location. Input:100-277V, 50/60Hz, 0.3A, output: 42VDC, CC 500mA, 0-10V dimming. Tc:90. For model details refer to ratings at sec. 2.0.	cURus
76	32	LED driver-7 (not shown)	E-DRIVER CO LTD	LB5W-10-C0500-RD	Class 2, suitable for damp location. Input:100-277V, 50/60Hz, 0.08A, output: 10V DC, CC 500mA, 0-10V dimming. Tc:90. For model details refer to ratings at sec. 2.0.	cURus
78	33	LED driver-8 (not shown)	E-DRIVER CO LTD	LBS12W-36-C0315-RD	Class 2, suitable for damp location. Input:100-277V, 50/60Hz, 0.18A, output: 36VDC, CC 315mA, 0-10V dimming. Tc:90. For model details refer to ratings at sec. 2.0.	cURus
1	34	Label (not shown)	Various	Various	Min. 90°C and suitable for metal surface. Comply with UL969.	UR
51, 54	35	Mounting plate-2	Various	Various	Sheet steel metal with min.1.1mm thick. For model details refer to ill. 2.	NR
25	36	Low voltage connector	Various	Various	It consist of male connector and female connector. Each of them combines items 36a, 36b. Located at output circuit of LED driver.	NR
25	36a	Plastic material(not shown)	Various	Various	PVC material.	NR
25	36b	Current carrying part (not shown)	Various	Various	copper material with min. 0.1mm thick.	NR

4.0 Critical Components						
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
77	37	LED driver-9 (not shown)	E-DRIVER CO LTD	LBS30W-42-C0570-RD	Class 2, suitable for damp location. Input:100-277V, 50/60Hz, 0.41A, output: 42VDC, CC 570mA, 0-10V dimming. Tc:90. For model details refer to ratings at sec. 2.0.	cURus
NOTES: 1) Not all item numbers are indicated (called out) in the photos, as their location is obvious. 2) "Various" means any type, from any manufacturer that complies with the "Technical data and securement means" and meets the "Mark(s) of conformity" can be used. 3) Indicates specific marks to be verified, which assures the agreed level of surveillance for the component. "NR" - indicates Unlisted and only visual examination is necessary. "See 5.0" indicates Unlisted components or assemblies to be evaluated periodically refer to section 5.0 for details.						

5.0 Critical Unlisted CEC Components

No Unlisted CEC components are used in this report.

6.0 Critical Features

Recognized Component - A component part, which has been previously evaluated by an accredited certification body with restrictions and must be evaluated as part of the basic product considering the restrictions as specified by the Conditions of Acceptability.

Listed Component - A component part, which has been previously Listed or Certified by an accredited Certification Organization with no restrictions and is used in the intended application within its ratings.

Unlisted Component - A part that has not been previously evaluated to the appropriate designated component standard. It may also be a Listed or Recognized component that is being used outside of its evaluated Listing or component recognition.

Critical Features/Components - An essential part, material, subassembly, system, software, or accessory of a product that has a direct bearing on the product's conformance to applicable requirements of the product standard.

Construction Details - For specific construction details, reference should be made to the photographs and descriptions. All dimensions are approximate unless specified as exact or within a tolerance. In addition to the specific construction details described in this Report, the following general requirements also apply.

1. Spacing - In primary circuits, 3.2 mm minimum spacing are maintained through air and 6.4 mm minimum over surfaces of insulating material between current-carrying parts of opposite polarity and between such current-carrying parts and dead-metal parts or low voltage isolated circuits.
2. Mechanical Assembly - Components such as switches, fuseholders, connectors, wiring terminals and display lamps are mounted and prevented from shifting or rotating by the use of lockwashers, starwashers, or other mounting format that prevents turning of the component.
3. Corrosion Protection - All ferrous metal parts are protected against corrosion by painting, plating or the equivalent.
4. Accessibility of Live Parts - All uninsulated live parts in primary circuitry are housed within a metal or non-metallic enclosure constructed with no openings other than those specifically described in Sections 4 and 5.
5. Grounding - All exposed dead-metal parts and all dead-metal parts within the enclosure that are exposed are connected to the grounding lead of the power supply cord or the equipment grounding terminal.
6. Polarized Connection - This product is provided with a polarized power supply connection. All single pole switches and fuses are connected only to the ungrounded supply circuit conductor.
7. Internal Wiring - Internal wiring is routed away from sharp or moving parts. Internal wiring leads terminating in soldered connections are made mechanically secure prior to soldering. Recognized Component separable (quick disconnect) connectors of the positive detent type, closed loop connectors, or other types specifically described in the text of this report are also acceptable as internal wiring terminals. At points where internal wiring passes through metal walls or partitions, the wiring insulation is protected against abrasion or damage by plastic bushings or grommets. All wiring refer to sec. 4.0.
8. Markings - The product is marked on a labeling system as described in item no. 34 of Section 4.0 as follows:
 - applicant's name or brand name
 - model number
 - date of manufacturer,
 - electrical ratings
9. Cautionary Markings - The following are required: refer to ill. 1-1a for cautionary marking text and format.
10. Installation, Operating and Safety Instructions - Instructions for installation and use of this product are provided by the manufacturer. The instruction shall include below information:
 - Proper assembly method of the luminaire.

7.0 Illustrations

Illustration 1 - Cautionary Markings

Model No.	Item
MCL0046-01A-008(U01A), MCL0046-01A-012(U01A), MCL0047-01A-008(U01A), MCL0041-01A-008(U01A), MDL0041-01A-008(U01A). VMCL004601A008, VMCL004601B012, VMCL004701A008, VMCL004101A008, VMDL004101A008; followed by up to four characters.	1.3, 1.14, 2.1, 2.7, 2.23, 2.24
MWA0042-01A-008(U01A). VMWA004201A008; followed by up to four characters.	1.3, 1.14, 2.1, 2.8, 2.23, 2.24
MDL0006-01A-003(U01A), MDL0030-01A-007(U01A) VMDL000601A003, VMDL003001A007; followed by up to four characters.	1.3, 1.14, 2.1, 2.7, 2.23, 2.24, 2.25
MDL0006-03C-009(U01A), MDL0006-03A-009(U01A), MDL0006-05A-012(U01A), MDL0006-05E-012(U01A), MDL0006-10A-024(U01A), MDL0006-10E-024(U01A), MDL0006-05C-012(U01A), MDL0006-10C-024(U01A), MCL0006-05D-012(U01A), MCL0006-05E-012(U01A), MCL0007-01A-020(U01A), MDL0007-01A-020(U01A), MDL0030-01B-012(U01A), MCL0019-01A-012(U01A), MCL0019-01B-012(U01A), MCL0019-01C-020(U01A), MCL0019-01D-020(U01A). VMDL000603A009, VMDL000605A012, VMDL000610A024, VMDL000605E012, VMDL000610E024, VMDL000603C009, VMDL000605C012, VMDL000610C024, VMCL000605D012, VMCL000605E012, VMCL000701A020, VMDL000701A020, VMDL003001B012, VMCL001901A012, VMCL001901B012, VMCL001901C020, VMCL001901D020; followed by up to four characters.	1.1, 1.3, 1.14, 2.1, 2.7, 2.23, 2.24, 2.25

Item	Marking	Text / Format
1.1	MIN 90°C SUPPLY CONDUCTORS LES FILS D'ALIMENTATION 90°C MIN	Verbatim S24-L3 and S32-L4
1.3	___ VOLTS ___ WATTS ___ HERTZ or ___ VOLTS ___ WATTS ___ HERTZ	S24-L3
1.14	VAPOR BARRIER MUST BE SUITABLE FOR 90 °C LE PARE-VAPEUR DOIT CONVENIR POUR 90 °C	S24-L2
2.1	DRY LOCATIONS ONLY POUR EMPLACEMENTS SECS SEULEMENT	Verbatim S24-L2
2.7	ACCESS ABOVE CEILING REQUIRED ACCÈS REQUIS AU-DESSUS DU PLAFOND	Verbatim S24-L2
2.8	ACCESS BEHIND WALL REQUIRED ACCÈS REQUIS DERRIÈRE LE MUR	Verbatim S24-L2
2.23	TYPE IC TYPE IC	S24-L3
2.24	INHERENTLY PROTECTED PROTECTION INHÉRENTE	S24-L3
2.25	Class 1 wiring only Câblage de classe 1 uniquement	S24-L3 & attached on 0-10V dimming wiring

7.0 Illustrations

Illustration 1a - Marking text and format

Format minimum size designation for marking height and typeface (clause 20.1.3)

Size Designation	Letter Height		Font Size	Font typeface, upper case
	(mm)	(in)	(points)	
S16	1.6	0.062	6	Not specified
S24	2.4	0.094	10	Univers bold, Arial bold, Helvetica bold, Zurich BT bold
S32	3.2	0.125	12	Not specified
S48	4.8	0.188	19	Univers bold, Arial bold, Helvetica bold, Zurich BT Bold

Location Designation	Description	Label exposed to a dry/damp environment	Label exposed to a wet environment
L1	Visible during relamping, after installation	Type P	Type P
L2	Visible during installation	Type N	Type P
L3	Visible during installation and inspection of wire connections, located near the supply connections	Type N	Type P
L4	On the smallest unit package or carton	Type T	Type T
L5	On an instruction sheet or tag	Type T	Type T
L6	Visible during component replacement	Type P	Type P

Note:

Type P – Permanent label or nameplate

A label that is intended to remain in the applied position for the lifetime of the luminaire under conditions of intended use.

Uses: Information required for user maintenance over the expected life of the product.

Material: Metal, plastic, or other suitable material with an adhesive suitable for the temperature involved and comply with Clause 20.1.7.

Type N – Non-permanent label or nameplate

A label that is intended to remain in place only for the purpose of installation.

Uses: Certification mark, manufacturer's identification, product identification.

Material: Paper with an adhesive suitable for the temperature involved.

Type T – Temporary label or instruction sheet

A label, instruction sheet, or tag that is not required after installation.

Uses: Installation instructions, and information not required after installation.

Material: Printed matter with or without adhesive and/or attachment, intended to be included with or attached to the product.



Only Pressure-sensitive labels and nameplates of the permanent type (Type P) that are secured by adhesive shall be in accordance with CSA C22.2 No. 0.15 or UL 969.

7.0 Illustrations

Illustration 2 - Component details

Refer to sec. 4.0		Model no.
Item	Component name	
3	Junction box-1	VMWA004201A008, VMCL004601A008, VMCL004601B012, VMCL004701A008, VMCL004101A008, VMDL004101A008
4	Mounting plate	VMWA004201A008, VMCL004601A008, VMCL004101A008,
5	Glass lens-1	VMWA004201A008, VMCL004601A008, VMCL004701A008, VMCL004601B012,
5a	Glass lens-2	VMDL004101A008, VMCL004101A008
8	Plastic part	VMWA004201A008, VMCL004601A008, VMCL004701A008, VMCL004601B012,
9	Plastic diffuser	VMWA004201A008, VMCL004601A008, VMCL004701A008, VMCL004601B012,
10	Supply wire	VMWA004201A008, VMCL004601A008, VMCL004601B012, VMCL004701A008, VMCL004101A008, VMDL004101A008
14	Junction box-2	VMDL000601A003, VMDL000603A009, VMDL000605A012, VMDL000610A024, VMDL000605E012, VMDL000610E024, VMDL000603C009, VMDL000605C012, VMDL000610C024, VMCL000605D012, VMCL000605E012, VMCL000701A020, VMDL000701A020, VMDL003001A007, VMDL003001B012, VMCL001901A012, VMCL001901B012, VMCL001901C020, VMCL001901D020.
15	Power limited cable	VMDL000601A003, VMDL000603A009, VMDL000605A012, VMDL000610A024, VMDL000605E012, VMDL000610E024, VMDL000603C009, VMDL000605C012, VMDL000610C024, VMCL000605D012, VMCL000605E012, VMCL000701A020, VMDL000701A020, VMDL003001A007, VMDL003001B012, VMCL001901A012, VMCL001901B012, VMCL001901C020, VMCL001901D020.
16	Clips-1	VMDL000601A003, VMDL000603A009, VMDL000610A024, VMDL000610E024, VMDL000605E012, VMDL000605A012
17	Clips-2	VMDL000603C009, VMDL000610C024, VMDL000605C012
18	LED-1	VMDL000601A003, VMDL000603C009, VMDL000603A009, VMDL000610C024, VMDL000610A024, VMDL000610E024, VMDL000605E012, VMCL000605D012, VMDL000605A012, VMDL000605C012, VMCL000605E012
19	LED PCB	VMDL000601A003, VMDL000603C009, VMDL000603A009, VMDL000610C024, VMDL000610A024, VMDL000610E024, VMDL000605E012, VMCL000605D012, VMDL000605A012, VMDL000605C012, VMCL000605E012
20	LED wire	VMDL000610E024
35	Mounting plate-2	VMCL000605E012, VMCL000605D012, VMCL000701A020

8.0 Test Summary			
Evaluation Period	9-Jun-2020 to 27-Sep-2020		Project No. 200609014GZU
Sample Rec. Date	9-Jun-2020	Condition Prototype	Sample ID. S200609014-001-024
Test Location	Intertek Testing Services Shenzhen Ltd. Guangzhou Branch Room 02, &101/E201/E301/E401/E501/E601/E701/E801 of Room 01 1-8/F., No. 7-2, Caipin Road, Science City, GETDD, Guangzhou, China		
Test Procedure	Testing Lab		
Determination of the result includes consideration of measurement uncertainty from the test equipment and methods. The product was tested as indicated below with results in conformance to the relevant test criteria.			
The following tests were performed:			
Test Description	[UL 1598:2008 Ed.3+R:17Oct2012] / Clause	[CSA C22.2#250.0:2008 Ed.3 + G1;G2] / Clause	/
Normal Temperature Test	14	14	/
Mold Stress Relief Test	16.4	16.4	/
Conduit Knockout And Twistout Test	16.13	16.13	/
Loading Test	16.15	16.15	/
Movable Joint Torsion And Pull Test	16.2	16.2	/
Junction Box Rigidity Test	16.31	16.31	/
Splice Inspection Test	16.32	16.32	/
Metal Strength Tests	16.42	16.42	/
Dielectric Voltage-Withstand Test	17.1	17.1	/
Bonding Impedance Test	17.2	17.2	/
Test Description	UL 8750:2015 Ed.2+R:11Oct2019 / Clause	CSA C22.2#250.13: 2017 Ed.3 / Clause	/
Input Test	8.2	9.2	/
Temperature Test	8.3	9.3	/

8.1 Signatures			
A representative sample of the product covered by this report has been evaluated and found to comply with the applicable requirements of the standards indicated in Section 1.0.			
Completed by:	Luca Lin	Reviewed by:	Gerry Wu
Title:	Project Engineer	Title:	Assistant Manager
Signature:		Signature:	

9.0 Correlation Page For Multiple Listings

The following products, which are identical to those identified in this report except for model number and Listee name, are authorized to bear the ETL label under provisions of the Intertek Multiple Listing Program.

BASIC LISTEE	Zhongshan Jumei Lighting Co., Ltd.
Address	No. 36 of Lefeng 6 Road, Henglan Town, ZHONGSHAN Guangdong
Country	China
Product	Type IC recessed luminaire

MULTIPLE LISTEE 1	None
Address	
Country	
Brand Name	

ASSOCIATED MANUFACTURER	
Address	
Country	

MULTIPLE LISTEE 1 MODELS	BASIC LISTEE MODELS

MULTIPLE LISTEE 2	None
Address	
Country	
Brand Name	

ASSOCIATED MANUFACTURER	
Address	
Country	

MULTIPLE LISTEE 2 MODELS	BASIC LISTEE MODELS

MULTIPLE LISTEE 3	None
Address	
Country	
Brand Name	

ASSOCIATED MANUFACTURER	
Address	
Country	

MULTIPLE LISTEE 3 MODELS	BASIC LISTEE MODELS

10.0 General Information

The Applicant and Manufacturer have agreed to produce, test and label ETL Listed products in accordance with the requirements of this Report. The Manufacturer has also agreed to notify Intertek and to request authorization prior to using alternate parts, components or materials.

COMPONENTS

Components used shall be those itemized in this Intertek report covering the product, including any amendments and/or revisions.

LISTING MARK

The ETL Listing mark applied to the products shall either be separable in form, such as labels purchased from Intertek, or on a product nameplate or other media only as specifically authorized by Intertek. Use of the mark is subject to the control of Intertek.

The mark must include the following four items:

- 1) applicable country identifiers "US" and/or "C" or "US", "C" and "EU"
- 2) the word "Listed" or "Classified" or "Recognized Component" (whichever is appropriate)
- 3) a control number issue by Intertek
- 4) a product descriptor that identifies the standards used for certification. Example:

For US standards, the words, "Conforms to" shall appear with the standard number along with the word, "Standard" or "Std." Example: "Conforms to ANSI/UL Std. XX."

For Canadian standards, the words "Certified to CAN/CSA Standard CXX No. XX." shall be used, or abbreviated, "Cert. to CAN/CSA Std. CXX No. XX."

Can be used together when both standards are used.

Note: A facsimile must be submitted to Intertek, Attn: Follow-up Services for approval prior to use.

The facsimile need not have a control number. A control number will be issued **after signed Certification Agreements** have been received by the Follow-up Services office, approval of the facsimile of your proposed Listing Mark, satisfactory completion of the Listing Report, and scheduling of a factory assessment in your facility.

MANUFACTURING AND PRODUCTION TESTS

Manufacturing and Production Tests shall be performed as required in this Report.

FOLLOW-UP SERVICE

Periodic unannounced audits of the manufacturing facility (and any locations authorized to apply the mark) shall be scheduled by Intertek. An audit report shall be issued after each visit. Special attention will be given to the following:

1. Conformance of the manufactured product to the descriptions in this Report.
2. Conformance of the use of the ETL mark with the requirements of this Report and the Certification Agreement.
3. Manufacturing changes.
4. Performance of specified Manufacturing and Production Tests.

In the event that the Intertek representative identifies non-conformance(s) to any provision of this Report, the Applicant shall take one or more of the following actions:

1. Correct the non-conformance.
2. Remove the ETL Mark from non-conforming product.
3. Contact the issuing product safety evaluation center for instructions.

10.1 Evaluation of Unlisted Components

Because Unlisted Components are uncontrolled, and they do not fall under a third party follow up program, Intertek may require these components to be tested and/or evaluated at least once annually, more often for certain components, as part of the independent certification process. The Unlisted Components in Section 5.0 require testing and/or evaluation as indicated.

Note to Intertek Follow Up Inspector: The Component Evaluation Center, CEC, will notify you in writing when these components must be selected and sent to the CEC for re-evaluation

Ship the samples to:

Intertek Testing Services Shenzhen Limited Guangzhou Branch

ETL Component Evaluation Center

Room 02, &101/E201/E301/E401/E501/E601/E701/E801 of Room 01 1-8/F., No. 7-2,
Caipin Road, Science City

GETDD Guangzhou, Guangdong, China

Attn: Ms. Joey Kuang

Sample Disposition: Due to the destructive nature of the testing, all samples will be discarded at the conclusion of testing unless, the manufacturer specifically requests the return of the samples. The request for return must accompany the initial component shipment.

11.0 Manufacturing and Production Tests

The manufacturer agrees to conduct the following Manufacturing and Production Tests as specified:

Required Tests

Dielectric Voltage Withstand Test
Grounding Continuity Test

11.1 Dielectric Voltage Withstand Test

Method:

One hundred percent of production of the products covered by this Report shall be subjected to a routine production line dielectric withstand test.

The test shall be conducted on products, which are fully assembled. Prior to applying the test potential, switches, contractors, relays, etc., should be closed so that all primary circuits are energized by the test all potential. If all primary circuits cannot be tested at one time, then separate applications of the test potential shall be made.

The test voltage specified below shall be applied between Primary wiring, including connected components, and accessible dead metal parts of a portable luminaire that are likely to become energized, including those parts that are accessible only during relamping. The test voltage may be gradually increased to the specified value but must be maintained at the specified value for one second or one minute as required.

Test Equipment:

The test equipment shall incorporate a transformer with an essentially sinusoidal output, a means to indicate the applied test potential, and an audible and/or visual indicator of dielectric breakdown.

The test equipment shall incorporate a voltmeter in the output circuit to indicate directly the applied test potential if the rated output of the test equipment is less than 500VA.

If the rated output of the test equipment is 500VA or more, the applied test potential may be indicated by either:

- 1 - a voltmeter in the primary circuit;
- 2 - a selector switch marked to indicate the test potential; or
- 3 - a marking in a readily visible location to indicate the test potential for test equipment having a single test potential output.

In cases 2 and 3, the test equipment shall include a lamp or other visual means to indicate that the test potential is present at the test equipment output.

All test equipment shall be maintained in current calibration.

Products Requiring Dielectric Voltage Withstand Test:

<u>PRODUCT</u>	<u>Test Voltage</u>	<u>Test Time</u>
All products covered by this report.	1200V	1 second

11.2 Grounding Continuity Test

Method:

Each product listed below shall be subjected to a test to determine that there is continuity between accessible dead-metal parts of the product and the grounding pin or blade of the attachment plug.

If all accessible dead metal is connected, only a single test need be performed. A visual or audible device (ohmmeter, buzzer, etc.) may be used to indicate grounding continuity.

Test Equipment:

The ground continuity test apparatus shall be an ohmmeter or similar indicating instrument capable of measuring 0.10 Ω.

Products Requiring Grounding Continuity Test:

At least Once per quarter for all products covered by this report.

Test location

Allowable value

Between the point of grounding means and any dead metal part

< 0.10 ohm

