



TEST REPORT

No. ETA23040008P-003 for

LED One Corporation

12437 Bellegrave Ave. Eastvale, CA 91752

Samiaa	Derformance Tests according to IECNA IM 70 stardard					
Service	Performance Tests according to IESNA LIM-79 standard					
Product Name	Outdoor - Fuel Pump Canopy Luminaires					
Medal Number						
wodel Number	LOC-SQCP-MW(40/50/60/75)MCC1(30/40/50)DLV					
Trada Mark	N1/A					
I rade Mark	N/A					
Dete of leave						
Date of Issue	April 19, 2023					
Date of Tests	July 14, 2022 to July 21, 2022					
Test Laboratory	ETA Testing Technology Co., Ltd.					
Address	Floor 8, Building A, The Western Science Park, Yuhang District,					
	Hangzhou 311121, China					
Test Location	ETA Testing Technology Co., Ltd.					
	Kani Dina					
Prepared By	Kavi Ding					
	C					
Reviewer	Sean Wan					

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REMARKS

Accreditation Scope*	Operating Frequency, Dimming and Audible Noise test are not in NVLAP accreditation scope.			
General Disclaimer	The test results presented in this report relate only to the object tested.			
TBD	To Be Determined, test case will be conducted.			
N/A	Test case does not apply to the test object.			
Pass	Test item does meet the requirement.			

REFERENCE STANDARD

Designation	Description
ANSI C82.77-10-2014	American National Standard for Lighting Equipment -Harmonic Emission Limits—Related Power Quality Requirements
CIE Pub. No. 13.3-1995	Method of Measuring and Specifying Color Rendering of Light Sources
IES LM-79-08	Electrical and Photometric Measurements of Solid-State Lighting Products (Goniophotometer)
ANSI C78.377-2015	Specifications for the Chromaticity of Solid State Lighting Products

The above standards or test methods were used in part or totally to test.

EQUIPMENT LIST

Equipment Used	Model Number	Control Number	Calibration data	Due date
Everfine – Goniophotometer	GO-R5000	ETA1013		
AC power source for Goniophotometer System	DPS1010	ETA1006	2021/12/6	2022/12/6
Power Analyzer for Goniophotometer	WT310	ETA1005	2021/12/6	2022/12/6
Two meter integrating sphere unit	Everfine – 2M	ETA1014		
AC power source for Integrating Sphere System	DPS1010	ETA1002	2021/12/6	2022/12/6
Power Analyzer for Integrating Sphere System	WT310	ETA1001	2021/12/6	2022/12/6
Spectroradiometer	HAAS 2000	ETA1003		
DC Linear Power Source	WY12010	ETA1004	2021/12/6	2022/12/6
AC power source for Integrating Sphere System	DPS1010	ETA1006	2021/12/6	2022/12/6
Power Analyzer for Integrating Sphere System	WT310	ETA1001	2021/12/6	2022/12/6
Illumination Photometer	Z-10	ETA1007	2021/12/6	2022/12/6
Luminous intensity Standard lamp For Goniophotometer		ETA1008	2022/3/21	2023/3/21
Standard lamp	D204	ETA1009	2022/3/21	2023/3/21
Digital thermometer	TES-1311A	ETA1141	2021/12/6	2022/12/6
Tektronix Oscilloscope	DPO2012B	ETA1187	2022/4/30	2023/4/30

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TEST METHOD

Photometric, Chromaticity and Electrical Measurements

No seasoning was performed in accordance with IESNA LM-79

Photometric and chromaticity were measured using a 2 meters integrating sphere spectral lamp measurement system. Maintain the ambient temperature at 25 °C \pm 1 °C. Temperature was measured at a position inside the sphere shielded from direct light. Relative humidity of 65% was measured at a position in the testing laboratory.

Spectral radiant flux measurements were made using spectroradiometer (bandwidth: 5nm) attached to the detector port of the integrating sphere. Each fixture was allowed to stabilise before measurements were made. The calibration of the integrating sphere spectroradiometer system is by the reference/standard lamps which are traceable to NIST. Lamp efficacy (lumens per watt) for each fixture model was then computed based on the luminous flux result.

Prior to measurement, stabilize the fixture as specified in section 5.0 of IES LM-79-08 Calculate the stabilization variation as [(maximum—minimum)/minimum] of at least three readings of the input power and lumen output over a period of 30 minutes, taken 15 minutes apart.

Electrical measurements including voltage, power and power factor were measured using YOKOGAWA - Digital Power Meter, model WT310.

A goniophotometer was used to measure the intensity (candelas) at each angle of distribution for each sample.

Ambient temperature was measured equal to the height of the sample mounted on the goniophotometer equipment. Each sample was operated at input rated voltage in its designated orientation. Each sample was allowed to stabilize for at least thirty minutes before measurements were made. Electrical measurements including voltage, current, and power were measured using the power analyzer YOKOGAWA - Digital Power Meter, model WT310.

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PRODUCT INFORMATION

Manufacturer	N/A
Address	N/A
Trade Mark	N/A
Sample Quantity	1 pcs
Sample Number	1220714-05-001
Model Number	LOC-SQCP-MW(40/50/60/75)MCCT(30/40/50)DLV
Nominal Operate Voltage (V; Hz)	AC 120-347V, 60Hz
Nominal Power	40W-50W-60W-75W
Nominal Lumen Output	5400lm-6750lm-8100lm-10125lm
Nominal CCT	3000K-4000K-5000K
Nominal CRI(Ra)	≥70
Nominal Life	50000hours
Lighting Source Model Number	LUXEON 5050
Lighting Source Manufacturer	Lumileds



TEST SUMMARY

Test Model No: LOC-SQCP-MW(40/50/60/75)MCCT(30/40/50)DLV at 3000K

Photometric and Electrical Test Data

Input Voltage (V)	Frequency (Hz)	ITHD	Input Current (A)	Input Power (W)	Power Factor	Lumen Output (Lumens)	Efficiency Lumen/w
120.0	60.0	12.7%	0.644	75.93	0.983	10307.13	135.75
CCT (K)	CRI Ra	R9	x CIE1931	y CIE1931	u' CIE1976	v' CIE1976	Duv
3049	72.1	-31	0.4323	0.4002	0.2492	0.5192	-0.0009

Spectrul Plots



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Luminous Intensity Distribution Test Plots

Angle	0	22.5	45	67.5	90
0	2940.5	2940.5	2940.5	2940.5	2940.5
5	2939.3	2937.0	2937.9	2936.3	2935.0
10	2910.0	2914.9	2923.8	2915.6	2907.5
15	2857.7	2864.7	2874.8	2852.2	2844.5
20	2807.2	2804.8	2798.8	2802.6	2785.9
25	2742.4	2743.2	2720.2	2729.7	2708.2
30	2679.7	2670.5	2643.7	2636.5	2636.5
35	2620.1	2591.6	2553.4	2563.5	2559.0
40	2517.4	2513.6	2474.9	2476.2	2451.2
45	2383.2	2375.8	2369.8	2344.6	2329.1
50	2267.5	2244.2	2221.0	2231.8	2226.8
55	2127.2	2121.2	2076.2	2093.1	2108.2
60	1956.6	1941.6	1933.7	1940.0	1974.0
65	1626.6	1711.2	1720.9	1761.0	1687.0
70	1064.0	1183.0	1471.4	1254.8	1184.8
75	654.9	683.5	934.0	738.1	748.5
80	445.0	467.1	517.8	510.9	515.4
85	254.0	264.0	266.0	272.9	275.7
90	131.7	136.1	129.5	134.0	133.3
95	87.7	86.5	82.2	84.5	86.4
100	78.9	74.7	69.8	78.8	61.3
105	65.8	56.2	50.2	60.7	59.0
110	47.6	38.0	31.3	40.5	43.2
115	32.7	24.7	14.6	26.4	29.8
120	21.6	14.5	3.5	16.0	20.2
125	11.4	5.8	0.0	7.5	11.9
130	2.8	1.0	0.5	1.3	4.3
135	0.6	0.6	0.6	0.5	0.6
140	0.6	0.6	0.6	0.6	0.6
145	0.7	0.7	0.7	0.6	0.6
150	0.7	0.7	0.7	0.7	0.7
155	0.7	0.7	0.7	0.7	0.7
160	0.6	0.6	0.6	0.6	0.6
165	0.6	0.6	0.6	0.6	0.6
170	0.6	0.6	0.6	0.6	0.6
175	0.5	0.5	0.5	0.5	0.5
180	0.4	0.4	0.4	0.4	0.4



0 AVERAGE BEAM ANGLE (50%) :130.1 DEG/270,128.5





PRODUCT PICTURES



LOC-SQCP-MW(40/50/60/75)MCCT(30/40/50)DLV

None Attachment

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