

TEST REPORT

No. ETA22010019P-005 for

LED One Corporation 12437 Bellegrave Ave. Eastvale, CA 91752

ServicePerformance Tests according to IESNA LM-79 standardProduct NameOutdoor Non-Cutoff and Semi-Cutoff Wall-mounted Area LuminairesModel NumberLOC-WP-MW(60/80/100/120)40KDLVTrade MarkN/ADate of IssueJanuary 19, 2022Date of TestsJuly 15, 2021 through July 19, 2021Test LaboratoryETA Testing Technology Co., Ltd.AddressFloor 8, Building A, The Western Science Park, Yuhang District, Hangzhou 311121, ChinaTest LocationETA Testing Technology Co., Ltd.Prepared ByKavi DingKavi DingKariKavi DingKariKariDateSean WanCom Wan								
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Reviewer Sean Wan Joan Wan	Prepared By	Kavi Ding Kavi Ding						
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Table of Content

REMARKS	3
REFERENCE STANDARD	3
EQUIPMENT LIST	4
TEST METHOD	.5
PRODUCT INFORMATION	6
TEST SUMMARY	.7
PRODUCT PICTURES	9



REMARKS

Accreditation Scope*	ope * 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	2021/3/21	2022/3/21
Standard lamp	D204	ETA1009	2021/3/21	2022/3/21
Digital thermometer	TES-1311A	ETA1141	2021/12/6	2022/12/6
Tektronix Oscilloscope	DPO2012B	ETA1187	2021/4/30	2022/4/30

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Date: January 19, 2022

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.



PRODUCT INFORMATION

Manufacturer	N/A
Address	N/A
Trade Mark	N/A
Sample Quantity	1 pcs
Sample Number	1210715-02-001
Model Number	LOC-WP-MW(60/80/100/120)40KDLV
Nominal Operate Voltage (V; Hz)	AC 120-277V, 50/60Hz
Nominal Power	60W;80W;100W;120W
Nominal Lumen Output	8100lm;10800lm;13500lm;16200lm
Nominal CCT	4000K; 5000K
Nominal CRI(Ra)	≥70
Nominal Life	50000hours
Lighting Source Model Number	LUXEON 3030 2D
Lighting Source Manufacturer	Lumileds



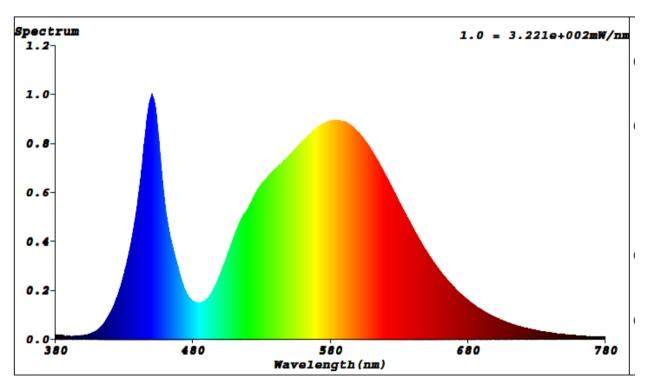
TEST SUMMARY

Test Model No: LOC-WP-MW(60/80/100/120)40KDLV

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	3.9%	1.036	123.92	0.997	16907.77	136.44
ССТ (К)	CRI Ra	R9	x CIE1931	y CIE1931	u' CIE1976	v' CIE1976	Duv
4092	73.4	-27	0.3765	0.3747	0.2233	0.5001	0.0002

Spectrul Plots

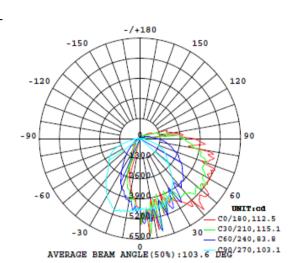


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Luminous Intensity Distribution Test Plots

Angle	0	22.5	45	67.5	90
0	4533.6	4533.6	4533.6	4533.6	4533.6
5	4485.1	4280.6	5602.9	5012.5	4440.8
10	3821.5	5191.2	5242.2	5146.6	4539.3
15	4730.8	3780.7	5504.4	4399.5	4505.2
20	3785.2	4711.5	4843.4	5314.6	4640.6
25	4591.8	4271.1	4431.3	4339.3	4502.4
30	4732.4	4424.4	4136.7	5015.6	4276.9
35	5044.6	4718.4	4317.3	3749.4	4000.3
40	4895.4	4937.2	4483.3	4183.6	3553.8
45	5719.0	5549.7	4444.2	3826.9	2974.3
50	5331.7	5325.8	4374.4	3514.7	2567.4
55	4527.7	5253.0	4313.9	3154.8	2275.8
60	5082.6	4722.9	4118.2	2859.5	2089.5
65	4881.2	4640.6	3815.4	2606.3	1841.6
70	4459.0	4808.4	3571.4	2250.7	1455.3
75	4455.1	4223.3	3188.1	1930.4	930.0
80	4775.2	4161.1	2742.0	1566.7	470.6
85	3123.4	3274.4	2546.1	1233.0	248.6
90	3263.2	2987.0	2026.9	914.2	174.6
95	2334.0	2382.9	1672.1	625.1	160.3
100	2102.6	1972.8	1173.0	480.1	162.7
105	1451.2	1302.5	996.3	359.4	152.2
110	1365.7	1127.6	759.4	271.9	89.2
115	741.1	736.6	557.5	206.8	71.2
120	617.0	540.8	391.5	159.8	48.4
125	463.7	413.4	310.2	124.7	33.2
130	330.5	315.3	279.6	83.3	23.3
135	237.0	221.0	182.5	58.5	16.3
140	161.0	158.0	135.1	38.1	10.9
145	125.1	124.9	108.4	17.6	6.7
150	98.9	91.8	62.1	7.2	3.2
155	56.0	53.6	20.8	1.5	1.0
160	25.5	19.5	3.3	1.0	0.9
165	3.3	2.2	1.0	0.9	0.9
170	1.1	1.1	1.0	0.9	0.8
175	1.0	1.0	0.8	0.7	0.6
180	0.3	0.4	0.4	0.3	0.3



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PRODUCT PICTURES



LOC-WP-MW(60/80/100/120)40KDLV

None Attachment

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