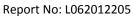




Report No:	L062012205	Issue Date: 6/18/2020				
Report Prepared For:	Light and Green 5242 Washington Blvd, Commerce, CA 90040					
Model Number:	RM-D45					
Test:	Photometric/Electrical Test					
IESNA LM79: 2008 Approved Me ANSI NEMA ANSLG C78.377: 20	priate part or all test guidelines were used for test performed: thods for Electrical and Photometric Measurements of Solid-State Lighting Pro 08 Specification of the Chromaticity of Solid State Lighting Products hission Limits-Related Quality Requirements for Lighting Equipment	oducts				
Description of Sample: Client submitted the sample. Received in working and undamaged condition. N modifications were necessary.						
Special Test Condition:	Fixture is tested with no special conditions.					
Sample Arrival Date:	6/15/20					
Date of Tests:	6/15/20 - 6/18/20					
Seasoning of Sample:	No seasoning was performed in accordance with IESNA LM	1-79.				

Due Date
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General Information	
Manufacturer:	Light and Green
Model Number:	RM-D45
Driver Model Number:	LIFUD LF-GMD045YSV1050U

Photometric & Electrical Test Resul	ts
Total Lumens:	2881.10
Efficacy:	67.63
Input Voltage (VAC/60Hz):	120.00
Input Current (Amp):	0.3581
Input Power (W):	42.60
Input Power Factor:	0.9913
Current ATHD (%):	10.2%

Test Condition

Ambient Temperature (°C):	25.0
Stabilization Time (Hours):	0:30
Total Operating Time (Hours):	0:55

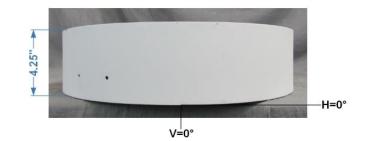




FIG. 1 LUMINAIRE





Test Methods

Photometric Measurements - Goniophotometer

A Custom Light Laboratory Type C Rotating Mirror Goniophotometer was used to measure candelas(intensity) at each angle of distribution as defined by IESNA for the appropriate fixture type.

Ambient temperature is set to 25°C and is measured from the center of the fixture, within 1ft from the outside of the fixture. Temperature is maintained at 25°C throughout the testing process and the sample is stabilized for at least 30mins and longer as necessary for the sample to achieve stabilization.

Electrical measurements are measured using the listed equipment.

Spectral Measurements - Integrating Sphere

A Sensing Spectroradiometer SPR-3000, in conjunction with Light Laboratory 2 meter integrating sphere was used to measure chromaticity coordinates, correlated color temperature(CCT) and the color rendering index(CRI) for each sample.

Ambient temperature is set to 25°C and is measured from the center of the fixture, within 1ft from the outside of the fixture. Temperature is maintained at 25°C throughout the testing process and the sample is stabilized for at least 30mins and longer as necessary for the sample to achieve stabilization.

Electrical measurements are measured using the listed equipment.

Disclaimers:

This report must not be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST or any agency of Federal Government.

Report Prepared by : Keyur Patel

Test Report Reviewed by:

Stareforz

Steve Kang Quality Assurance

*Attached are photometric data reports. Total number of pages: 9



Photometric Test Report

IES INDOOR REPORT PHOTOMETRIC FILENAME : L062012205.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002 [TEST] L062012205 [TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com) [ISSUEDATE] 6/18/2020 [MANUFAC] Light and Green [LUMCAT] RM-D45 [LUMINAIRE] Rondo Round surface mount, 40W SMD with lens 45cm [BALLASTCAT] LIFUD LF-GMD045YSV1050U [OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND [MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS. [INPUT] 120.0VAC, 42.60W [TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

LUMINANCE DATA (cd/sq.m)

Angle In	Average	Average	Average
Degrees	0-Deg	45-Deg	90-Deg
45	11719	11719	11719
55	10942	10942	10942
65	9948	9948	9948
75	7816	7816	7816
85	3775	3775	3775

CANDELA TABULATION

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	392.09	N.A.	13.60
0-30	824.77	N.A.	28.60
0-40	1337.99	N.A.	46.40
0-60	2323.72	N.A.	80.70
0-80	2843.28	N.A.	98.70
0-90	2881.1	N.A.	100.00
10-90	2778.85	N.A.	96.50
20-40	945.90	N.A.	32.80
20-50	1470.08	N.A.	51.00
40-70	1327.3	N.A.	46.10
60-80	519.56	N.A.	18.00
70-80	177.99	N.A.	6.20
80-90	37.83	N.A.	1.30
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	2881.1	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	102.26
10-20	289.83
20-30	432.68
30-40	513.22
40-50	524.18
50-60	461.55
60-70	341.57
70-80	177.99
80-90	37.83
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

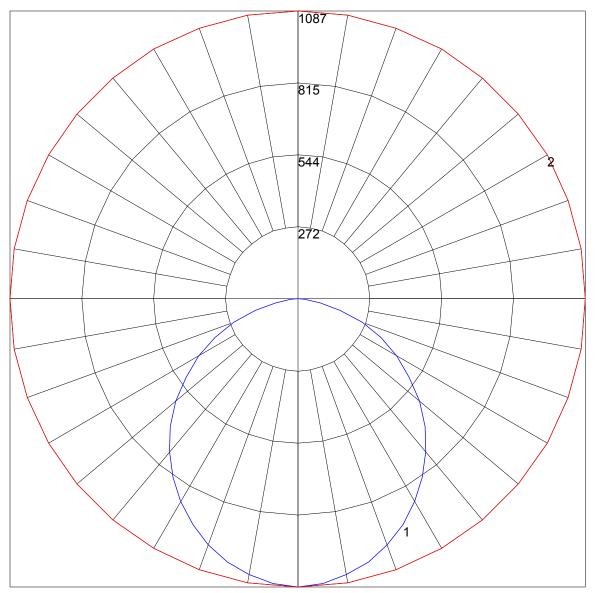
RC	80	70	50 30	10 0
RW	70 50 30 10	70 50 30 10	50 30 10 50 30 10	50 30 10 0
0 1 2 3 4 5 6 7 8 9 10	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

UGR TABLE - CORRECTED

Reflectances Ceiling Cavity Walls Floor Cavity	70 50 20	70 30 20	50 50 20	50 30 20	30 30 20	70 50 20	70 30 20	50 50 20	50 30 20	30 30 20
Room Size	UGR Viewed Crosswise					UGR \	UGR Viewed Endwise			
X=2H Y=2H 3H 4H 6H 8H 12H	19.6 21.3 21.9 22.2 22.3 22.3	21.2 22.8 23.2 23.5 23.5 23.5 23.5	20.0 21.7 22.3 22.6 22.7 22.7	21.5 23.1 23.6 23.8 23.9 23.9	21.9 23.5 24.0 24.2 24.3 24.3	19.6 21.3 21.9 22.2 22.3 22.3	21.2 22.8 23.2 23.5 23.5 23.5 23.5	20.0 21.7 22.3 22.6 22.7 22.7	21.5 23.1 23.6 23.8 23.9 23.9	21.9 23.5 24.0 24.2 24.3 24.3
4H 2H	20.2	21.6	20.6	21.9	22.3	20.2	21.6	20.6	21.9	22.3
3H	22.1	23.3	22.5	23.7	24.1	22.1	23.3	22.5	23.7	24.1
4H	22.8	23.8	23.2	24.2	24.7	22.8	23.8	23.2	24.2	24.7
6H	23.2	24.1	23.7	24.6	25.0	23.2	24.1	23.7	24.6	25.0
8H	23.3	24.2	23.8	24.6	25.1	23.3	24.2	23.8	24.6	25.1
12H	23.4	24.1	23.9	24.6	25.1	23.4	24.1	23.9	24.6	25.1
8H 4H	23.0	23.9	23.5	24.3	24.8	23.0	23.9	23.5	24.3	24.8
6H	23.5	24.3	24.0	24.7	25.2	23.5	24.3	24.0	24.7	25.2
8H	23.7	24.3	24.2	24.8	25.3	23.7	24.3	24.2	24.8	25.3
12H	23.8	24.4	24.3	24.8	25.4	23.8	24.4	24.3	24.8	25.4
12H 4H	23.1	23.8	23.5	24.3	24.8	23.1	23.8	23.5	24.3	24.8
6H	23.6	24.2	24.1	24.7	25.2	23.6	24.2	24.1	24.7	25.2
8H	23.8	24.3	24.3	24.8	25.4	23.8	24.3	24.3	24.8	25.4

Maximum UGR = 25.4

POLAR GRAPH



Maximum Candela = 1087 Located At Horizontal Angle = 0, Vertical Angle = 0 # 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.) # 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)