

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: PORTFOLIO

Report Number: P792782

Luminaire Tested: LER6D45BD010-EC6DR3040509027-6LBS1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P792782
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER6D45BD010-EC6DR3040509027-6LBS1MW
Description: 6 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4650.9 lumens
Efficiency: N/A
Efficacy: 120.2 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

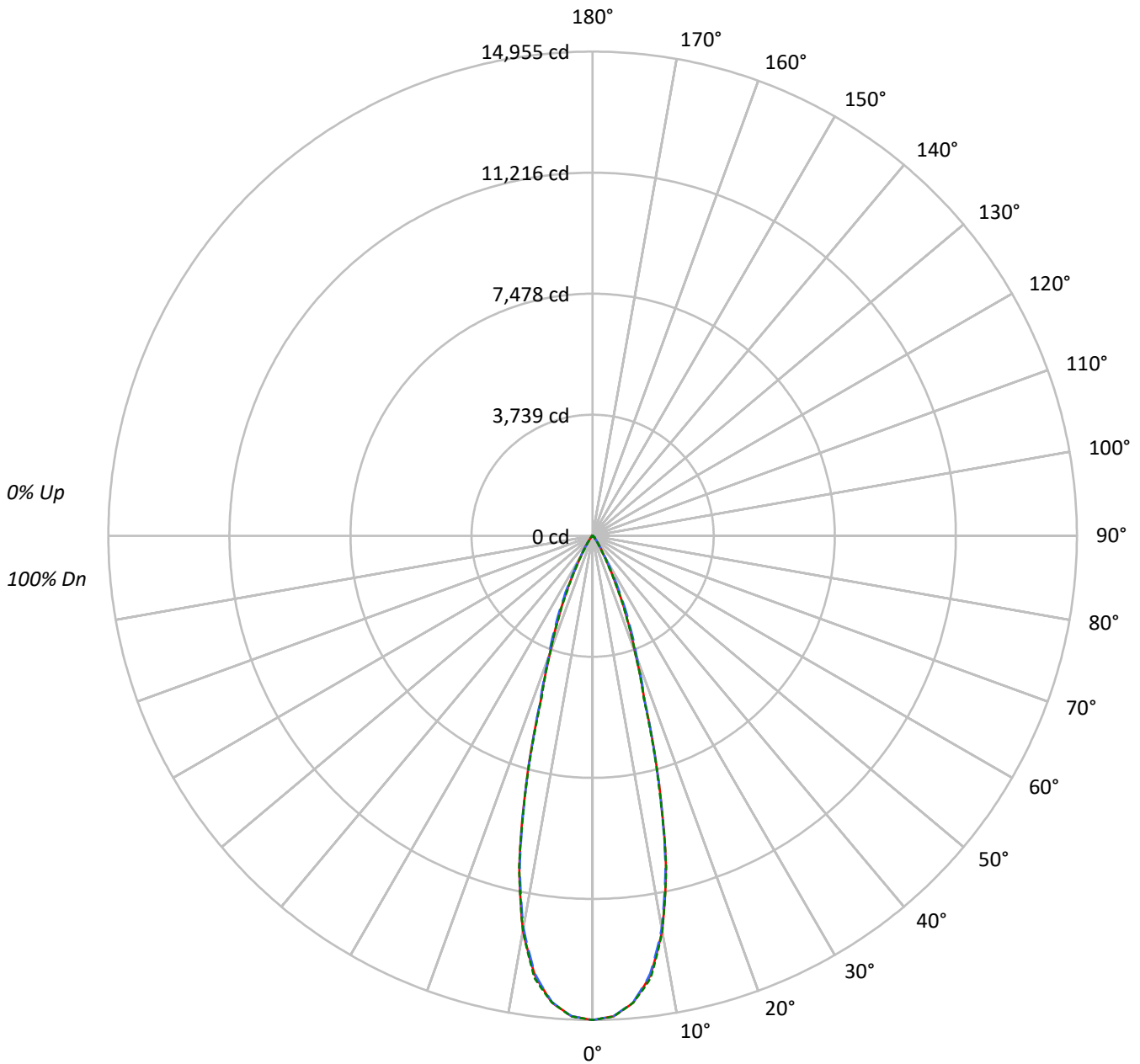
Input Watts (W): 38.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96																			
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92																			
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89																			
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85																			
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82																			
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79																			
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77																			
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74																			
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72																			
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1144691	1144691	1144691
5°	1111837	1110538	1111891
10°	963018	956225	962785
15°	628322	624946	621800
20°	312432	324153	312016
25°	157384	177476	154158
30°	63009	68657	54905
35°	29229	27995	23463
40°	12620	14009	11881
45°	8898	11052	8985
50°	3060	8038	3239
55°	1762	3336	1868
60°	1240	1454	1240
65°	797	797	797
70°	492	336	492
75°	0	207	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 11052 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1315.1	28.3
10°-20°	2117.9	45.5
20°-30°	915.2	19.7
30°-40°	208.6	4.5
40°-50°	71.6	1.5
50°-60°	17.5	0.4
60°-70°	4.5	0.1
70°-80°	0.5	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4348.2	93.5
0°-40°	4556.8	98.0
0°-60°	4645.9	99.9
0°-90°	4650.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4650.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14955	14955	14955	14955	14955	
5°	14470	14456	14453	14484	14471	1316
15°	7929	7834	7886	7861	7847	2123
25°	1864	1934	2101	1885	1825	892
35°	313	319	300	297	251	212
45°	82	102	102	102	83	58
55°	13	14	25	15	14	13
65°	4	4	4	4	4	4
75°	0	0	1	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	14954.8	14954.8	14954.8	14954.8	14954.8
2.5°	14855.7	14845.4	14851.3	14858.7	14861.6
5°	14470.3	14456.3	14453.4	14483.5	14471.0
7.5°	13692.7	13672.9	13642.8	13711.1	13774.9
10°	12390.2	12368.1	12302.8	12335.1	12387.2
12.5°	10467.2	10396.0	10394.5	10497.3	10483.4
15°	7929.0	7833.5	7886.4	7860.7	7846.7
17.5°	5332.0	5295.3	5365.8	5344.5	5252.7
20°	3835.6	3845.2	3979.5	3912.0	3830.5
22.5°	2798.9	2833.4	2992.7	2818.7	2754.8
25°	1863.5	1934.0	2101.4	1884.8	1825.3
27.5°	1146.1	1178.4	1348.1	1131.5	1099.1
30°	712.9	696.8	776.8	666.7	621.2
32.5°	467.7	447.1	472.8	424.4	387.7
35°	312.8	319.4	299.6	297.4	251.1
37.5°	195.3	224.7	198.2	211.5	161.5
40°	126.3	163.0	140.2	154.9	118.9
42.5°	103.5	125.6	115.3	122.6	105.7
45°	82.2	102.1	102.1	102.1	83.0
47.5°	45.5	68.3	87.4	69.8	48.5
50°	25.7	34.5	67.5	36.0	27.2
52.5°	17.6	19.8	46.3	20.6	18.4
55°	13.2	14.0	25.0	14.7	14.0
57.5°	10.3	11.0	13.2	11.0	10.3
60°	8.1	8.1	9.5	8.8	8.1
62.5°	5.9	5.9	6.6	5.9	5.9
65°	4.4	4.4	4.4	4.4	4.4
67.5°	2.2	2.9	2.9	2.9	2.9
70°	2.2	1.5	1.5	1.5	2.2
72.5°	1.5	0.7	0.7	0.7	0.7
75°	0.0	0.0	0.7	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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