

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: P766442

Luminaire Tested: LD6D45BD010-EU6DR3040509050-6LBS1H

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P766442
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: LD6D45BD010-EU6DR3040509050-6LBS1H
Description: 6 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5370.0 lumens
Efficiency: N/A
Efficacy: 138.8 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

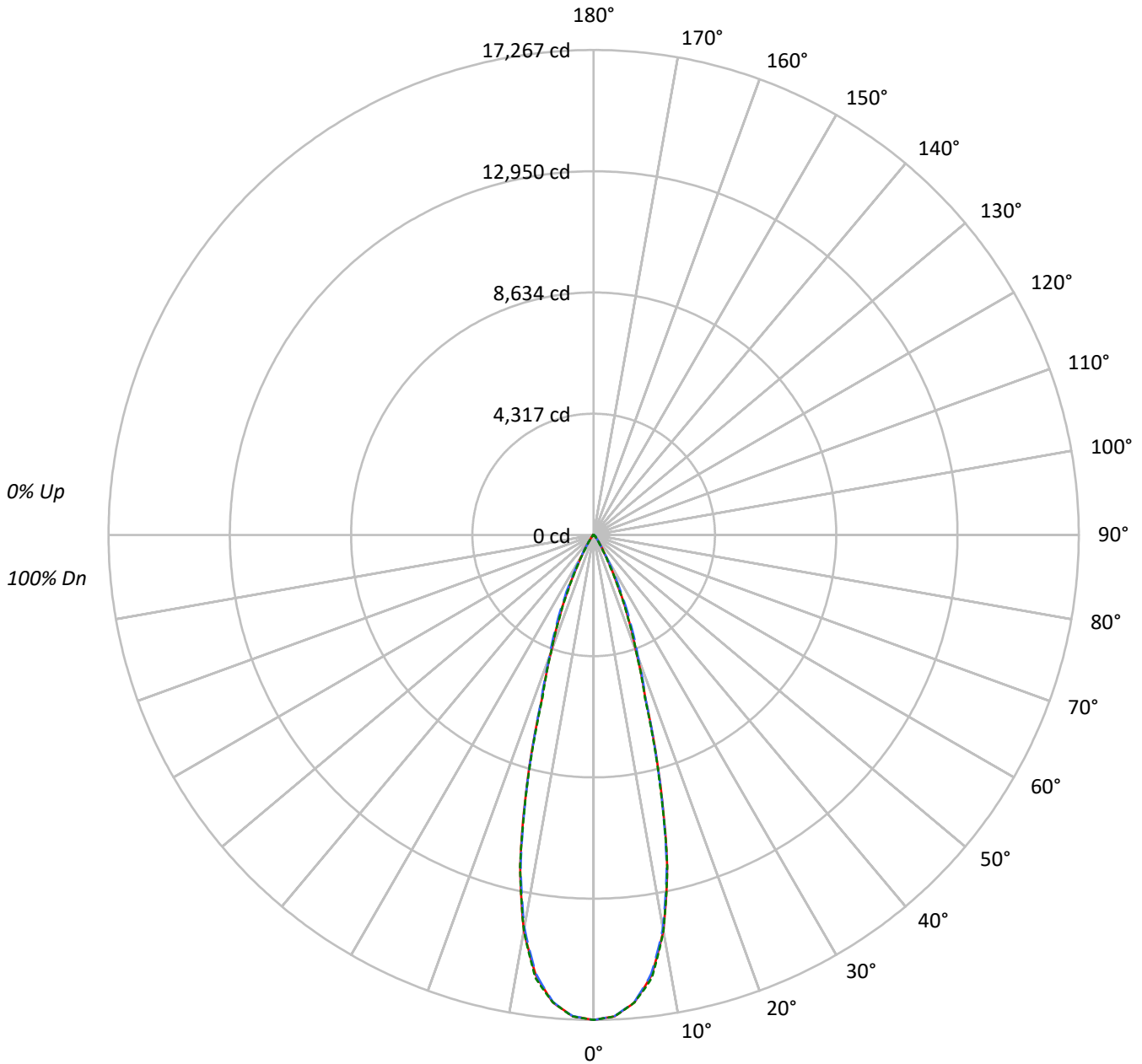
Input Watts (W): 38.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	1321690	1321690	1321690
5°	1283749	1282251	1283811
10°	1111922	1104080	1111658
15°	725475	721576	717947
20°	360743	374281	360263
25°	181716	204916	177992
30°	72758	79272	63390
35°	33742	32322	27089
40°	14568	16177	13719
45°	10273	12752	10370
50°	3537	9288	3739
55°	2042	3843	2149
60°	1424	1684	1424
65°	924	924	924
70°	559	380	559
75°	0	237	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 12752 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1518.4	28.3
10°-20°	2445.4	45.5
20°-30°	1056.7	19.7
30°-40°	240.8	4.5
40°-50°	82.7	1.5
50°-60°	20.2	0.4
60°-70°	5.2	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°	5020.5	93.5
0°-40°	5261.3	98.0
0°-60°	5364.2	99.9
0°-90°	5370.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5370.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17267	17267	17267	17267	17267	
5°	16708	16692	16688	16723	16708	1520
15°	9155	9045	9106	9076	9060	2451
25°	2152	2233	2426	2176	2108	1030
35°	361	369	346	343	290	245
45°	95	118	118	118	96	67
55°	15	16	29	17	16	15
65°	5	5	5	5	5	5
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°	17267.2	17267.2	17267.2	17267.2	17267.2
2.5°	17152.7	17140.9	17147.7	17156.1	17159.5
5°	16707.7	16691.6	16688.2	16722.9	16708.5
7.5°	15809.9	15787.0	15752.2	15831.1	15904.8
10°	14306.0	14280.5	14205.1	14242.4	14302.6
12.5°	12085.7	12003.4	12001.7	12120.4	12104.3
15°	9155.0	9044.8	9105.8	9076.1	9060.0
17.5°	6156.4	6114.1	6195.4	6170.9	6064.9
20°	4428.7	4439.7	4594.9	4516.9	4422.8
22.5°	3231.7	3271.5	3455.5	3254.6	3180.8
25°	2151.6	2233.0	2426.3	2176.2	2107.5
27.5°	1323.4	1360.7	1556.5	1306.4	1269.1
30°	823.2	804.5	896.9	769.8	717.2
32.5°	540.0	516.3	546.0	490.0	447.6
35°	361.1	368.8	345.9	343.3	289.9
37.5°	225.5	259.4	228.9	244.2	186.5
40°	145.8	188.2	161.9	178.9	137.3
42.5°	119.5	145.0	133.1	141.6	122.1
45°	94.9	117.8	117.8	117.8	95.8
47.5°	52.6	78.8	100.9	80.5	56.0
50°	29.7	39.8	78.0	41.5	31.4
52.5°	20.3	22.9	53.4	23.7	21.2
55°	15.3	16.1	28.8	17.0	16.1
57.5°	11.9	12.7	15.3	12.7	11.9
60°	9.3	9.3	11.0	10.2	9.3
62.5°	6.8	6.8	7.6	6.8	6.8
65°	5.1	5.1	5.1	5.1	5.1
67.5°	2.5	3.4	3.4	3.4	3.4
70°	2.5	1.7	1.7	1.7	2.5
72.5°	1.7	0.8	0.8	0.8	0.8
75°	0.0	0.0	0.8	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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