

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: P766417

Luminaire Tested: LD6D45BD010-EU6DR3040509035-6LBS1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P766417
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-EU6DR3040509035-6LBS1LI
Description: 6 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5348.5 lumens
Efficiency: N/A
Efficacy: 138.2 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

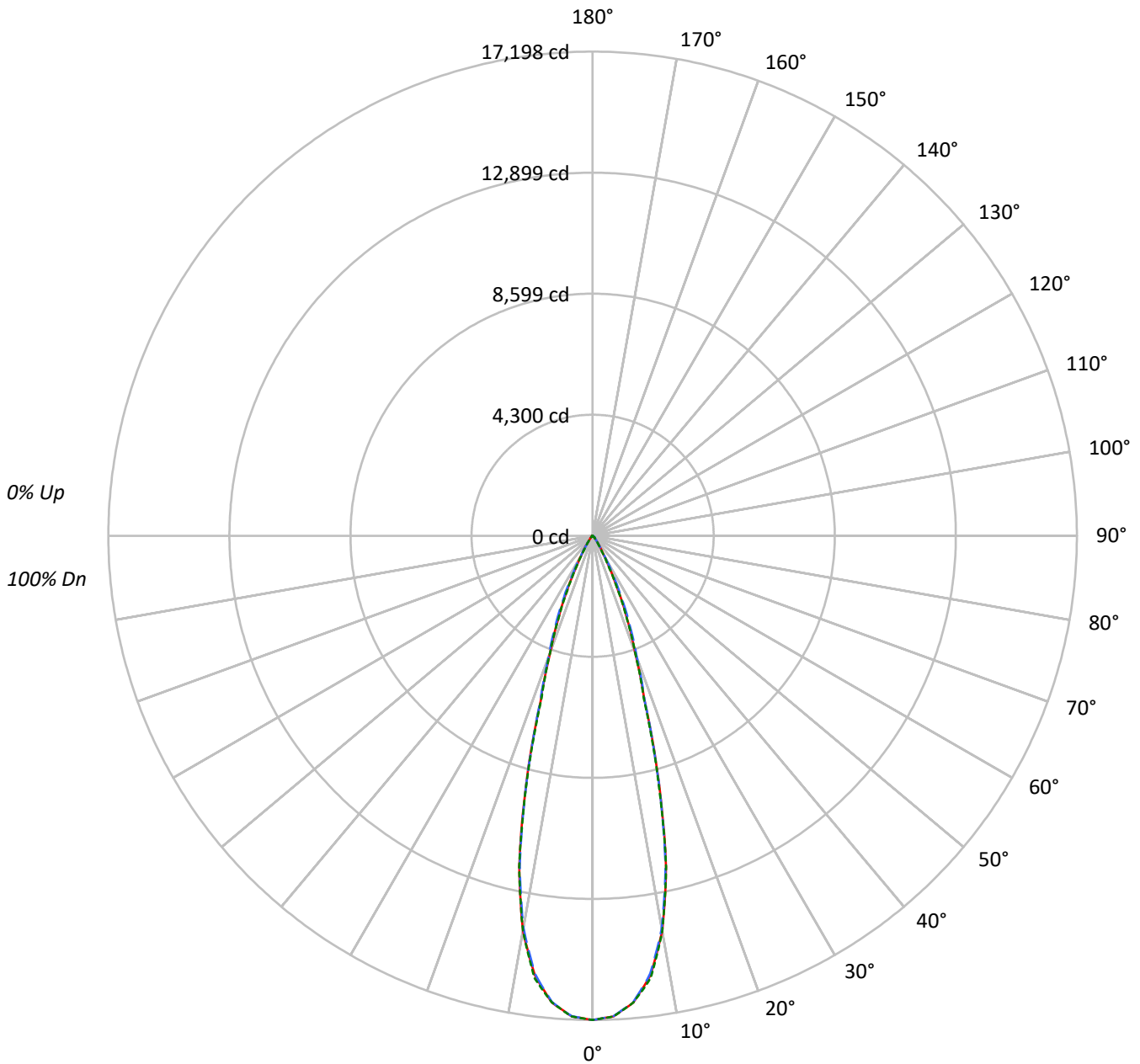


Downlight

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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°	1316386	1316386	1316386
5°	1278593	1277103	1278663
10°	1107461	1099650	1107197
15°	722559	718684	715070
20°	359293	372774	358813
25°	180990	204097	177282
30°	72467	78954	63133
35°	33611	32191	26986
40°	14508	16117	13669
45°	10240	12708	10327
50°	3525	9253	3715
55°	2028	3830	2135
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: 12708 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1512.3	28.3
10°-20°	2435.6	45.5
20°-30°	1052.5	19.7
30°-40°	239.9	4.5
40°-50°	82.4	1.5
50°-60°	20.1	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°	5000.3	93.5
0°-40°	5240.2	98.0
0°-60°	5342.7	99.9
0°-90°	5348.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5348.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17198	17198	17198	17198	17198	
5°	16641	16625	16621	16656	16642	1514
15°	9118	9008	9069	9040	9024	2442
25°	2143	2224	2417	2168	2099	1026
35°	360	367	344	342	289	244
45°	95	117	117	117	95	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°	17197.9	17197.9	17197.9	17197.9	17197.9
2.5°	17083.9	17072.1	17078.9	17087.3	17090.7
5°	16640.6	16624.6	16621.2	16655.8	16641.5
7.5°	15746.5	15723.7	15689.1	15767.6	15841.0
10°	14248.6	14223.2	14148.1	14185.2	14245.2
12.5°	12037.2	11955.3	11953.6	12071.8	12055.8
15°	9118.2	9008.5	9069.3	9039.7	9023.7
17.5°	6131.7	6089.5	6170.6	6146.1	6040.6
20°	4410.9	4421.9	4576.4	4498.8	4405.0
22.5°	3218.7	3258.4	3441.6	3241.5	3168.0
25°	2143.0	2224.0	2416.6	2167.5	2099.1
27.5°	1318.0	1355.2	1550.2	1301.2	1264.0
30°	819.9	801.3	893.3	766.7	714.3
32.5°	537.9	514.2	543.8	488.0	445.8
35°	359.7	367.3	344.5	342.0	288.8
37.5°	224.6	258.4	228.0	243.2	185.8
40°	145.2	187.4	161.3	178.2	136.8
42.5°	119.1	144.4	132.6	141.0	121.6
45°	94.6	117.4	117.4	117.4	95.4
47.5°	52.4	78.5	100.5	80.2	55.7
50°	29.6	39.7	77.7	41.4	31.2
52.5°	20.3	22.8	53.2	23.6	21.1
55°	15.2	16.0	28.7	16.9	16.0
57.5°	11.8	12.7	15.2	12.7	11.8
60°	9.3	9.3	11.0	10.1	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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