

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: P766374

Luminaire Tested: LD6D45BD010-EU6DR3040509024-6LBDP1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P766374
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-EU6DR3040509024-6LBDP1LI
Description: 6 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4308.5 lumens
Efficiency: N/A
Efficacy: 111.3 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

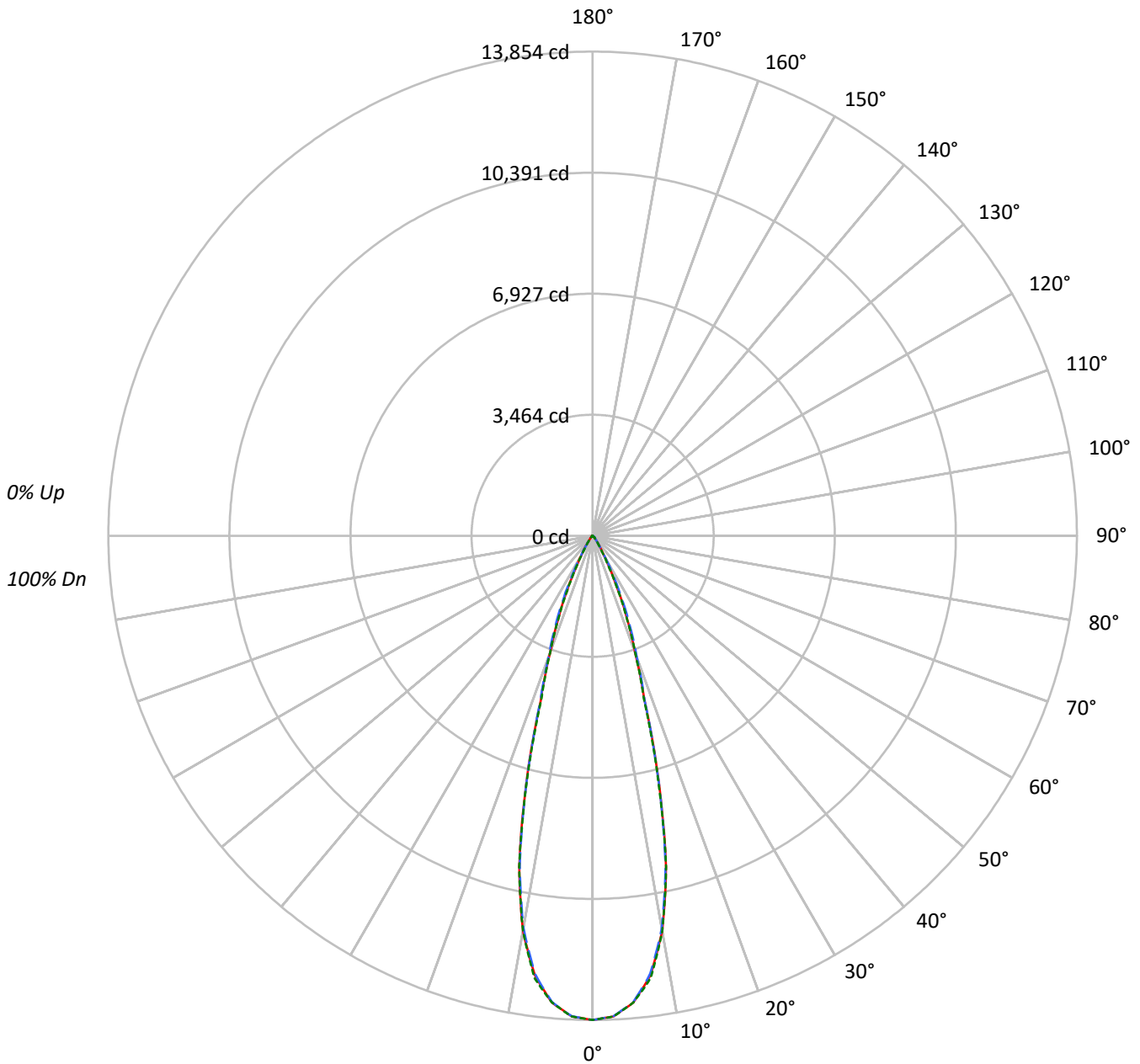


Downlight

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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°	1060425	1060425	1060425
5°	1029984	1028785	1030037
10°	892126	885830	891916
15°	582068	578938	576029
20°	289437	300295	289046
25°	145797	164411	142807
30°	58378	63602	50857
35°	27080	25930	21735
40°	11691	12980	11011
45°	8249	10230	8324
50°	2834	7454	3001
55°	1628	3083	1721
60°	1148	1347	1148
65°	743	743	743
70°	448	313	448
75°	0	207	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 10230 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1218.2	28.3
10°-20°	1962.0	45.5
20°-30°	847.8	19.7
30°-40°	193.2	4.5
40°-50°	66.3	1.5
50°-60°	16.2	0.4
60°-70°	4.2	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°	4028.1	93.5
0°-40°	4221.3	98.0
0°-60°	4303.8	99.9
0°-90°	4308.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4308.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13854	13854	13854	13854	13854	
5°	13405	13392	13389	13417	13406	1219
15°	7345	7257	7306	7282	7269	1967
25°	1726	1792	1947	1746	1691	826
35°	290	296	278	276	233	197
45°	76	94	94	94	77	54
55°	12	13	23	14	13	12
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°	13853.9	13853.9	13853.9	13853.9	13853.9
2.5°	13762.1	13752.6	13758.0	13764.8	13767.6
5°	13405.0	13392.1	13389.4	13417.3	13405.7
7.5°	12684.7	12666.4	12638.5	12701.7	12760.9
10°	11478.1	11457.7	11397.1	11427.1	11475.4
12.5°	9696.7	9630.7	9629.3	9724.6	9711.6
15°	7345.3	7256.9	7305.8	7282.0	7269.1
17.5°	4939.5	4905.5	4970.8	4951.0	4866.0
20°	3553.3	3562.1	3686.6	3624.0	3548.5
22.5°	2592.9	2624.8	2772.4	2611.2	2552.0
25°	1726.3	1791.6	1946.7	1746.0	1690.9
27.5°	1061.8	1091.7	1248.8	1048.2	1018.2
30°	660.5	645.5	719.6	617.6	575.4
32.5°	433.3	414.2	438.0	393.1	359.1
35°	289.8	295.9	277.5	275.5	232.6
37.5°	180.9	208.1	183.6	195.9	149.6
40°	117.0	151.0	129.9	143.5	110.2
42.5°	95.9	116.3	106.8	113.6	97.9
45°	76.2	94.5	94.5	94.5	76.9
47.5°	42.2	63.3	80.9	64.6	44.9
50°	23.8	32.0	62.6	33.3	25.2
52.5°	16.3	18.4	42.9	19.0	17.0
55°	12.2	12.9	23.1	13.6	12.9
57.5°	9.5	10.2	12.2	10.2	9.5
60°	7.5	7.5	8.8	8.2	7.5
62.5°	5.4	5.4	6.1	5.4	5.4
65°	4.1	4.1	4.1	4.1	4.1
67.5°	2.0	2.7	2.7	2.7	2.7
70°	2.0	1.4	1.4	1.4	2.0
72.5°	1.4	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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