

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



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: P793279

Luminaire Tested: LER6D50D010-EC6DR3040509040-6LBDP1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P793279
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: LER6D50D010-EC6DR3040509040-6LBDDP1B
Description: 6 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4789.3 lumens
Efficiency: N/A
Efficacy: 101.9 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): 47
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

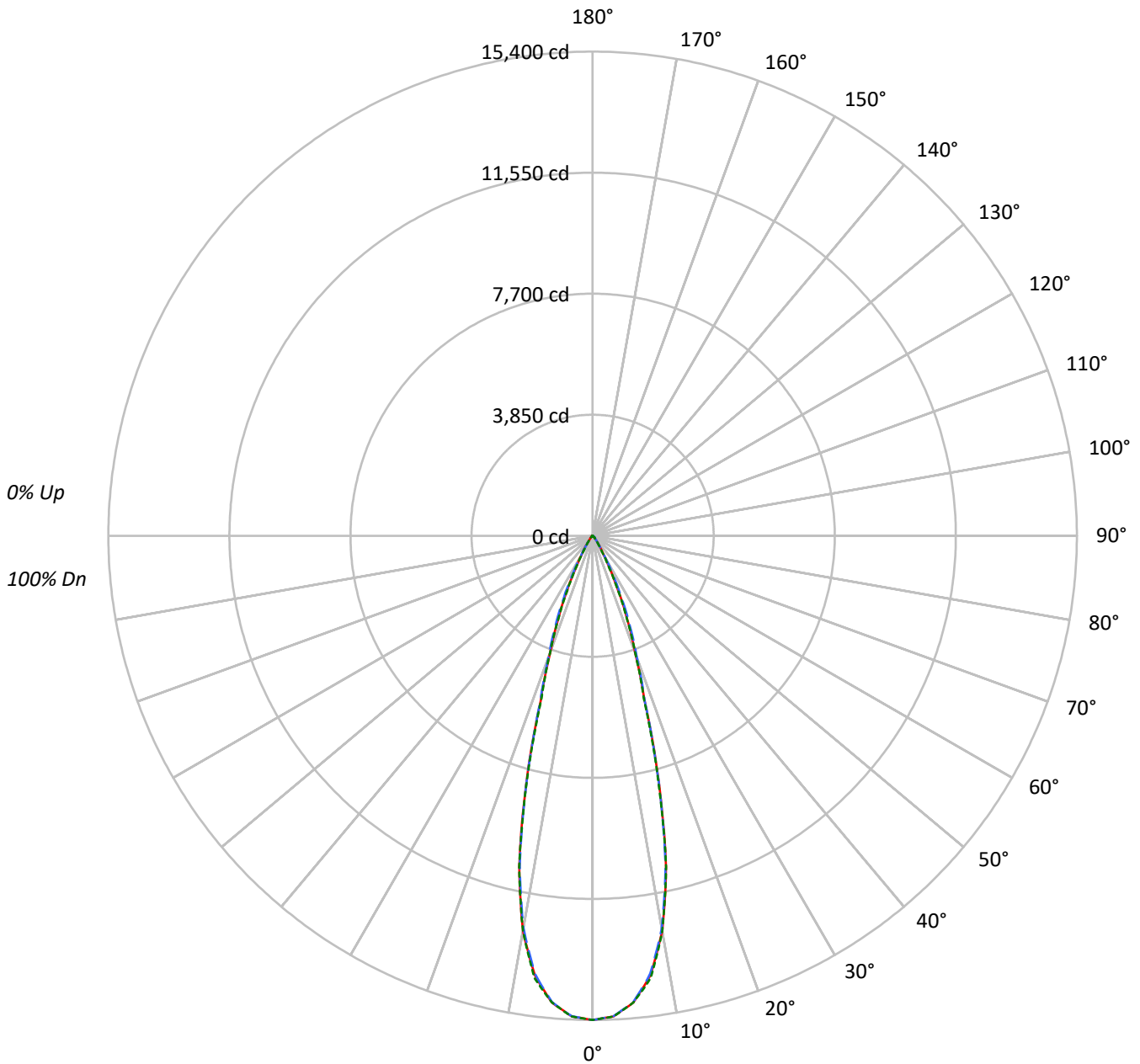


Downlight

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1178761	1178761	1178761
5°	1144922	1143585	1144984
10°	991675	984688	991442
15°	647024	643545	640312
20°	321734	333806	321302
25°	162063	182755	158744
30°	64892	70699	56531
35°	30098	28827	24164
40°	12990	14428	12240
45°	9169	11377	9244
50°	3156	8288	3334
55°	1815	3430	1922
60°	1271	1500	1271
65°	815	815	815
70°	515	336	515
75°	0	237	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 11377 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1354.2	28.3
10°-20°	2180.9	45.5
20°-30°	942.4	19.7
30°-40°	214.8	4.5
40°-50°	73.8	1.5
50°-60°	18.0	0.4
60°-70°	4.6	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°	4477.6	93.5
0°-40°	4692.4	98.0
0°-60°	4784.1	99.9
0°-90°	4789.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4789.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15400	15400	15400	15400	15400	
5°	14901	14887	14884	14914	14902	1355
15°	8165	8067	8121	8095	8080	2186
25°	1919	1992	2164	1941	1880	919
35°	322	329	308	306	259	218
45°	85	105	105	105	85	60
55°	14	14	26	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°	15399.9	15399.9	15399.9	15399.9	15399.9
2.5°	15297.9	15287.3	15293.3	15300.9	15303.9
5°	14900.9	14886.6	14883.5	14914.5	14901.7
7.5°	14100.2	14079.8	14048.8	14119.1	14184.9
10°	12758.9	12736.3	12669.0	12702.2	12755.9
12.5°	10778.7	10705.4	10703.9	10809.7	10795.4
15°	8165.0	8066.7	8121.1	8094.6	8080.3
17.5°	5490.7	5452.9	5525.5	5503.5	5409.0
20°	3949.8	3959.6	4098.0	4028.4	3944.5
22.5°	2882.2	2917.7	3081.8	2902.6	2836.8
25°	1918.9	1991.5	2163.9	1940.9	1879.6
27.5°	1180.2	1213.5	1388.2	1165.1	1131.9
30°	734.2	717.5	799.9	686.5	639.6
32.5°	481.6	460.5	486.9	437.0	399.2
35°	322.1	328.9	308.5	306.2	258.6
37.5°	201.1	231.4	204.1	217.8	166.3
40°	130.0	167.9	144.4	159.5	122.5
42.5°	106.6	129.3	118.7	126.3	108.9
45°	84.7	105.1	105.1	105.1	85.4
47.5°	46.9	70.3	90.0	71.8	49.9
50°	26.5	35.5	69.6	37.0	28.0
52.5°	18.1	20.4	47.6	21.2	18.9
55°	13.6	14.4	25.7	15.1	14.4
57.5°	10.6	11.3	13.6	11.3	10.6
60°	8.3	8.3	9.8	9.1	8.3
62.5°	6.0	6.0	6.8	6.0	6.0
65°	4.5	4.5	4.5	4.5	4.5
67.5°	2.3	3.0	3.0	3.0	3.0
70°	2.3	1.5	1.5	1.5	2.3
72.5°	1.5	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

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Scaled Data Report





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

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