

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: P793287

Luminaire Tested: LER6D50D010-EC6DR3040509050-6LBDP1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P793287
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-EC6DR3040509050-6LBDDP1B
Description: 6 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4823.5 lumens
Efficiency: N/A
Efficacy: 102.6 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

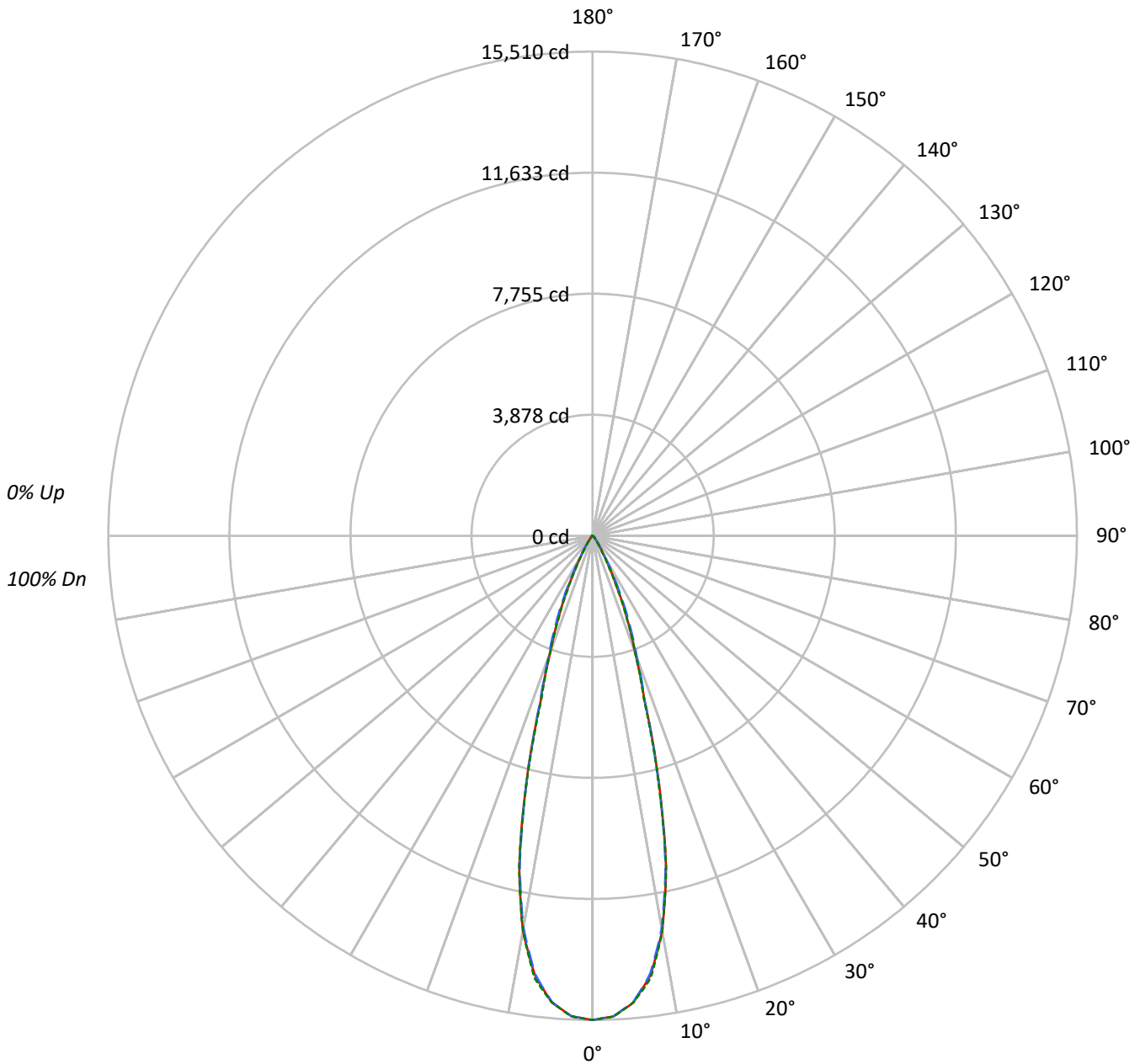


Downlight

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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°	1187180	1187180	1187180
5°	1153105	1151753	1153159
10°	998764	991722	998523
15°	651644	648141	644884
20°	324031	336192	323599
25°	163229	184064	159884
30°	65352	71212	56937
35°	30313	29033	24332
40°	13090	14528	12330
45°	9234	11453	9309
50°	3179	8348	3358
55°	1828	3456	1935
60°	1286	1516	1286
65°	833	833	833
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: 11453 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1363.9	28.3
10°-20°	2196.5	45.5
20°-30°	949.2	19.7
30°-40°	216.3	4.5
40°-50°	74.3	1.5
50°-60°	18.1	0.4
60°-70°	4.7	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°	4509.6	93.5
0°-40°	4725.9	98.0
0°-60°	4818.3	99.9
0°-90°	4823.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4823.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15510	15510	15510	15510	15510	
5°	15007	14993	14990	15021	15008	1365
15°	8223	8124	8179	8152	8138	2202
25°	1933	2006	2179	1955	1893	925
35°	324	331	311	308	260	220
45°	85	106	106	106	86	61
55°	14	14	26	15	14	13
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°	15509.9	15509.9	15509.9	15509.9	15509.9
2.5°	15407.1	15396.5	15402.6	15410.2	15413.2
5°	15007.4	14992.9	14989.8	15021.1	15008.1
7.5°	14200.9	14180.4	14149.2	14220.0	14286.2
10°	12850.1	12827.2	12759.5	12793.0	12847.0
12.5°	10855.7	10781.9	10780.4	10887.0	10872.5
15°	8223.3	8124.3	8179.1	8152.5	8138.0
17.5°	5529.9	5491.8	5564.9	5542.9	5447.7
20°	3978.0	3987.9	4127.3	4057.2	3972.7
22.5°	2902.8	2938.6	3103.8	2923.3	2857.1
25°	1932.7	2005.8	2179.4	1954.7	1893.1
27.5°	1188.7	1222.2	1398.1	1173.4	1139.9
30°	739.4	722.6	805.7	691.4	644.2
32.5°	485.1	463.7	490.4	440.1	402.1
35°	324.4	331.2	310.7	308.4	260.4
37.5°	202.6	233.0	205.6	219.3	167.5
40°	131.0	169.0	145.4	160.7	123.4
42.5°	107.4	130.2	119.6	127.2	109.7
45°	85.3	105.8	105.8	105.8	86.0
47.5°	47.2	70.8	90.6	72.3	50.3
50°	26.7	35.8	70.1	37.3	28.2
52.5°	18.3	20.6	48.0	21.3	19.0
55°	13.7	14.5	25.9	15.2	14.5
57.5°	10.7	11.4	13.7	11.4	10.7
60°	8.4	8.4	9.9	9.1	8.4
62.5°	6.1	6.1	6.9	6.1	6.1
65°	4.6	4.6	4.6	4.6	4.6
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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(END OF REPORT)