

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: P790219

Luminaire Tested: LER6D20D010-EC6DR3020359050-6LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P790219
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: LER6D20D010-EC6DR3020359050-6LBS1B
Description: 6 INCH ROUND SHALLOW 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: 3458.3 lumens
Efficiency: N/A
Efficacy: 149.7 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): 23.1
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

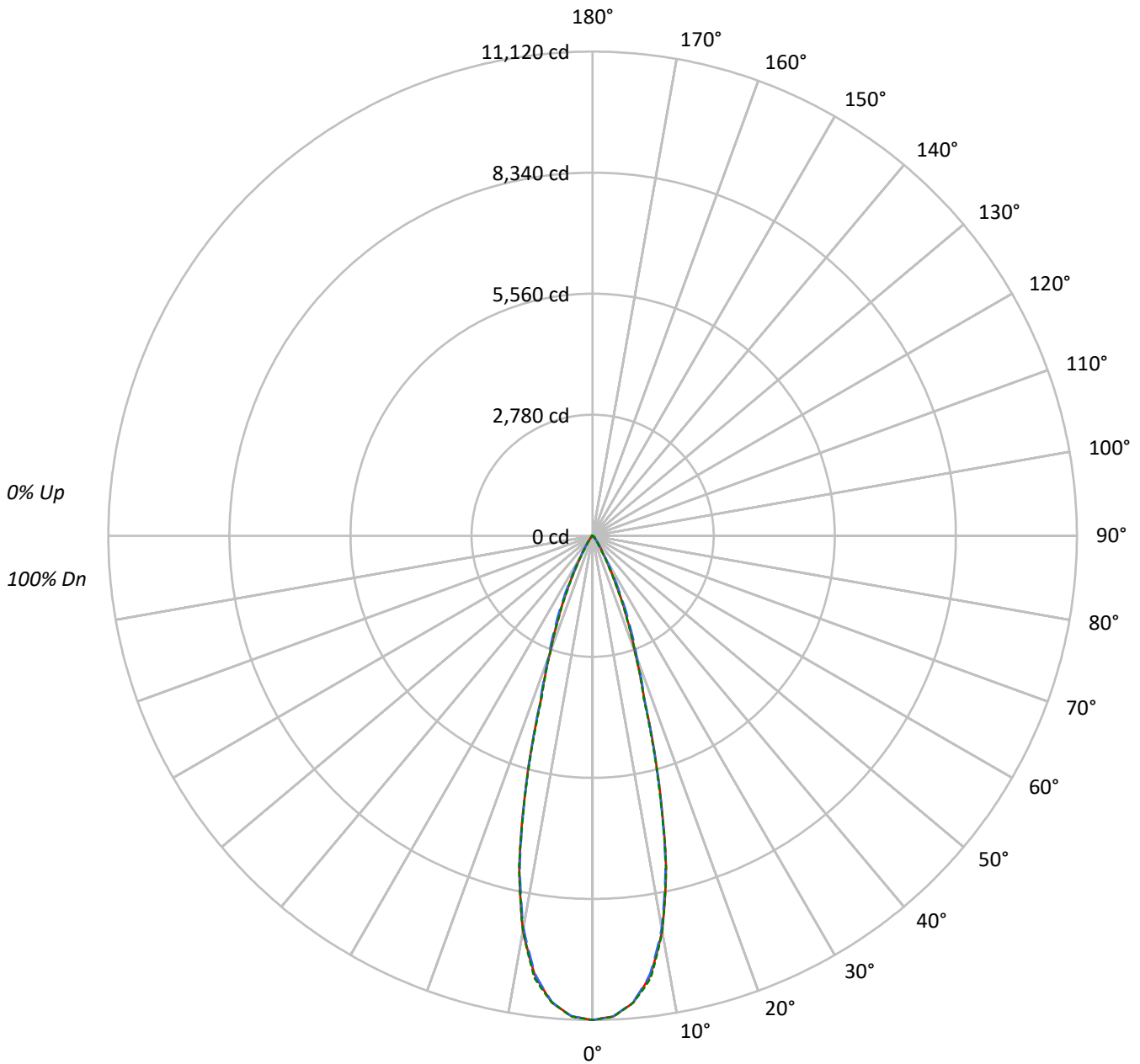


Downlight

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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°	851170	851170	851170
5°	826738	825769	826776
10°	716081	711029	715910
15°	467204	464692	462362
20°	232320	241036	232010
25°	117023	131963	114633
30°	46853	51051	40825
35°	21735	20819	17446
40°	9383	10422	8833
45°	6614	8216	6679
50°	2274	5978	2405
55°	1308	2482	1388
60°	919	1087	919
65°	598	598	598
70°	358	246	358
75°	0	148	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 8216 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	977.8	28.3
10°-20°	1574.8	45.5
20°-30°	680.5	19.7
30°-40°	155.1	4.5
40°-50°	53.3	1.5
50°-60°	13.0	0.4
60°-70°	3.4	0.1
70°-80°	0.3	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°	3233.2	93.5
0°-40°	3388.3	98.0
0°-60°	3454.6	99.9
0°-90°	3458.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3458.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11120	11120	11120	11120	11120	
5°	10760	10749	10747	10770	10760	979
15°	5896	5825	5864	5845	5835	1579
25°	1386	1438	1562	1402	1357	663
35°	233	238	223	221	187	158
45°	61	76	76	76	62	43
55°	10	10	19	11	10	10
65°	3	3	3	3	3	3
75°	0	0	0	0	0	0
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°	11120.1	11120.1	11120.1	11120.1	11120.1
2.5°	11046.4	11038.7	11043.1	11048.6	11050.7
5°	10759.8	10749.4	10747.2	10769.6	10760.3
7.5°	10181.6	10166.8	10144.5	10195.2	10242.7
10°	9213.1	9196.7	9148.1	9172.1	9210.9
12.5°	7783.2	7730.2	7729.1	7805.6	7795.2
15°	5895.8	5824.8	5864.1	5845.0	5834.7
17.5°	3964.8	3937.5	3989.9	3974.0	3905.8
20°	2852.1	2859.2	2959.1	2908.9	2848.3
22.5°	2081.2	2106.9	2225.3	2095.9	2048.4
25°	1385.6	1438.1	1562.5	1401.5	1357.3
27.5°	852.2	876.3	1002.4	841.3	817.3
30°	530.1	518.1	577.6	495.7	461.9
32.5°	347.8	332.5	351.6	315.6	288.3
35°	232.6	237.5	222.8	221.1	186.7
37.5°	145.2	167.1	147.4	157.2	120.1
40°	93.9	121.2	104.3	115.2	88.4
42.5°	77.0	93.4	85.7	91.2	78.6
45°	61.1	75.9	75.9	75.9	61.7
47.5°	33.8	50.8	65.0	51.9	36.0
50°	19.1	25.7	50.2	26.8	20.2
52.5°	13.1	14.7	34.4	15.3	13.6
55°	9.8	10.4	18.6	10.9	10.4
57.5°	7.6	8.2	9.8	8.2	7.6
60°	6.0	6.0	7.1	6.6	6.0
62.5°	4.4	4.4	4.9	4.4	4.4
65°	3.3	3.3	3.3	3.3	3.3
67.5°	1.6	2.2	2.2	2.2	2.2
70°	1.6	1.1	1.1	1.1	1.6
72.5°	1.1	0.5	0.5	0.5	0.5
75°	0.0	0.0	0.5	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)