

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: P790771

Luminaire Tested: LER6D25D010-EC6DR3020359030-6LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P790771
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: LER6D25D010-EC6DR3020359030-6LBS1B
Description: 6 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4769.7 lumens
Efficiency: N/A
Efficacy: 190.0 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): 25.1
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

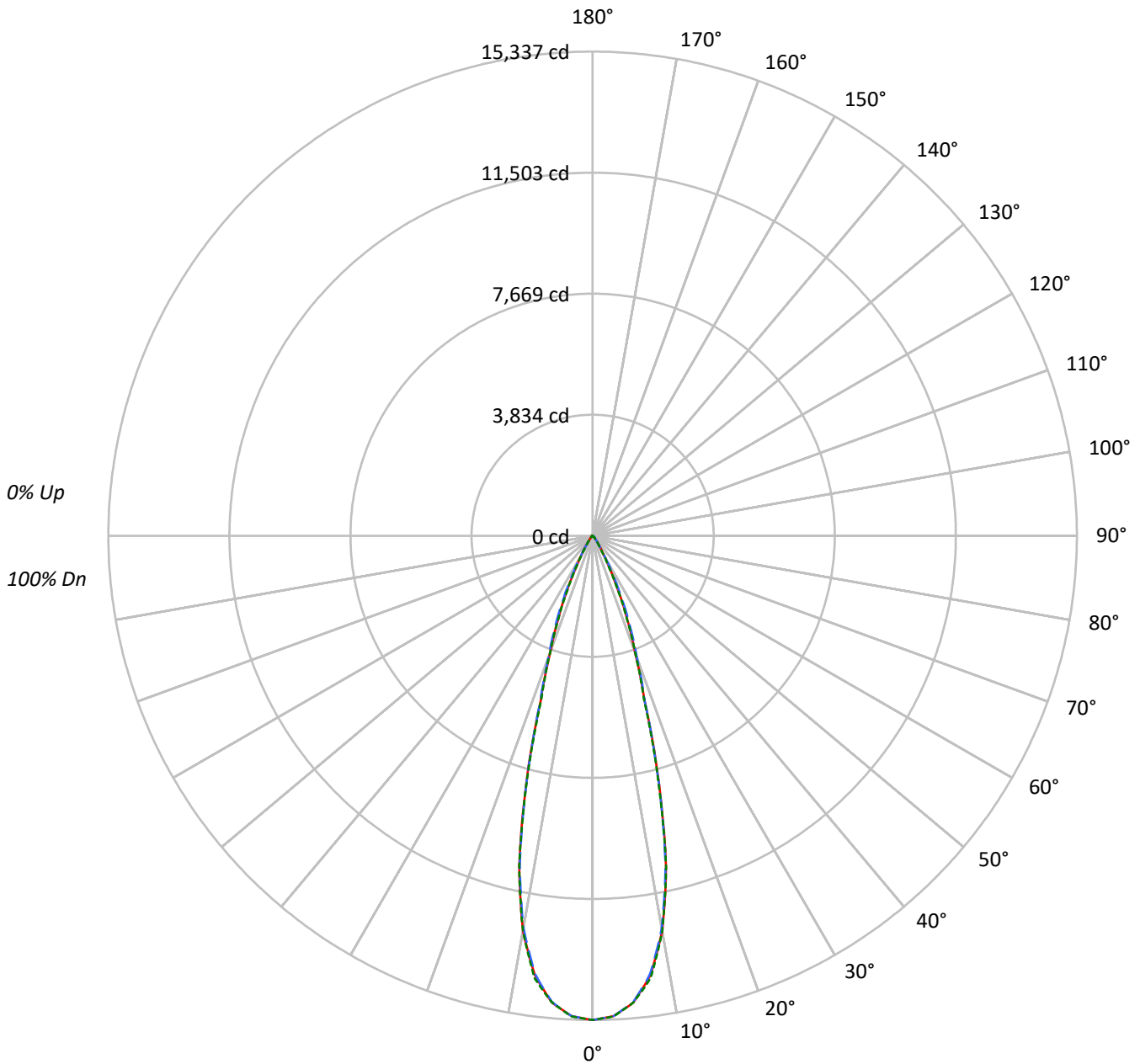


Downlight

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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°	1173931	1173931	1173931
5°	1140228	1138898	1140289
10°	987610	980646	987377
15°	644369	640906	637681
20°	320414	332437	319983
25°	161404	182003	158094
30°	64618	70416	56301
35°	29976	28705	24061
40°	12940	14369	12190
45°	9125	11334	9212
50°	3144	8252	3322
55°	1815	3416	1908
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: 11334 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1348.6	28.3
10°-20°	2172.0	45.5
20°-30°	938.6	19.7
30°-40°	213.9	4.5
40°-50°	73.5	1.5
50°-60°	17.9	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°	4459.2	93.5
0°-40°	4673.1	98.0
0°-60°	4764.5	99.9
0°-90°	4769.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4769.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15337	15337	15337	15337	15337	
5°	14840	14826	14822	14853	14841	1350
15°	8132	8034	8088	8062	8047	2177
25°	1911	1983	2155	1933	1872	915
35°	321	328	307	305	258	218
45°	84	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°	15336.8	15336.8	15336.8	15336.8	15336.8
2.5°	15235.1	15224.6	15230.6	15238.2	15241.2
5°	14839.8	14825.5	14822.5	14853.4	14840.6
7.5°	14042.4	14022.1	13991.2	14061.2	14126.7
10°	12706.6	12684.0	12617.0	12650.1	12703.6
12.5°	10734.5	10661.5	10660.0	10765.4	10751.1
15°	8131.5	8033.6	8087.8	8061.5	8047.1
17.5°	5468.2	5430.5	5502.8	5481.0	5386.9
20°	3933.6	3943.4	4081.2	4011.9	3928.3
22.5°	2870.4	2905.8	3069.2	2890.7	2825.2
25°	1911.1	1983.4	2155.0	1932.9	1871.9
27.5°	1175.4	1208.5	1382.5	1160.3	1127.2
30°	731.1	714.6	796.7	683.7	637.0
32.5°	479.7	458.6	484.9	435.2	397.6
35°	320.8	327.5	307.2	305.0	257.5
37.5°	200.3	230.4	203.3	216.9	165.7
40°	129.5	167.2	143.8	158.9	122.0
42.5°	106.2	128.8	118.2	125.7	108.4
45°	84.3	104.7	104.7	104.7	85.1
47.5°	46.7	70.0	89.6	71.5	49.7
50°	26.4	35.4	69.3	36.9	27.9
52.5°	18.1	20.3	47.4	21.1	18.8
55°	13.6	14.3	25.6	15.1	14.3
57.5°	10.5	11.3	13.6	11.3	10.5
60°	8.3	8.3	9.8	9.0	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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