

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: P791338

Luminaire Tested: LER6D30D010-EC6DR3020359027-6LBDP1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P791338
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: LER6D30D010-EC6DR3020359027-6LBDP1MW
Description: 6 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4692.8 lumens
Efficiency: N/A
Efficacy: 161.8 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): 29
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

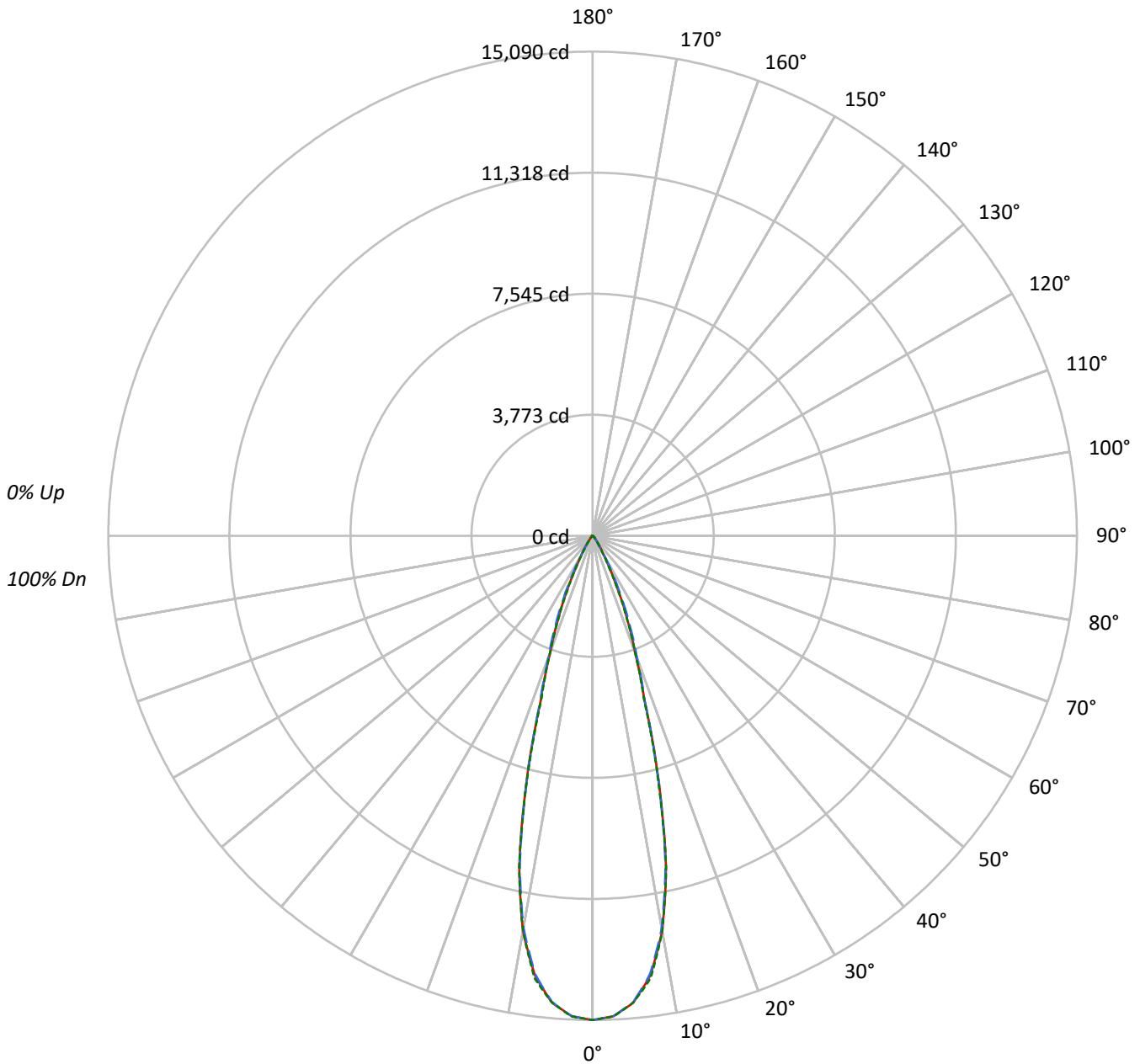


Downlight

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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°	1155009	1155009	1155009
5°	1121856	1120542	1121910
10°	971700	964845	971467
15°	633980	630581	627411
20°	315250	327078	314827
25°	158803	179073	155552
30°	63584	69276	55400
35°	29490	28248	23678
40°	12730	14139	11990
45°	8985	11150	9060
50°	3084	8121	3263
55°	1775	3363	1882
60°	1240	1470	1240
65°	797	797	797
70°	492	336	492
75°	0	207	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 11150 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1326.9	28.3
10°-20°	2137.0	45.5
20°-30°	923.5	19.7
30°-40°	210.5	4.5
40°-50°	72.3	1.5
50°-60°	17.6	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°	4387.4	93.5
0°-40°	4597.8	98.0
0°-60°	4687.8	99.9
0°-90°	4692.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4692.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15090	15090	15090	15090	15090	
5°	14601	14587	14584	14614	14601	1328
15°	8000	7904	7958	7932	7918	2142
25°	1880	1951	2120	1902	1842	900
35°	316	322	302	300	253	214
45°	83	103	103	103	84	59
55°	13	14	25	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°	15089.6	15089.6	15089.6	15089.6	15089.6
2.5°	14989.6	14979.3	14985.2	14992.6	14995.6
5°	14600.7	14586.6	14583.6	14614.0	14601.4
7.5°	13816.1	13796.1	13765.7	13834.6	13899.1
10°	12501.9	12479.6	12413.7	12446.3	12498.9
12.5°	10561.6	10489.7	10488.2	10591.9	10577.9
15°	8000.4	7904.1	7957.5	7931.5	7917.5
17.5°	5380.1	5343.0	5414.1	5392.7	5300.0
20°	3870.2	3879.8	4015.4	3947.3	3865.0
22.5°	2824.1	2858.9	3019.7	2844.1	2779.7
25°	1880.3	1951.4	2120.3	1901.8	1841.8
27.5°	1156.5	1189.1	1360.2	1141.7	1109.1
30°	719.4	703.1	783.8	672.7	626.8
32.5°	471.9	451.2	477.1	428.2	391.2
35°	315.6	322.3	302.3	300.0	253.4
37.5°	197.1	226.7	200.0	213.4	163.0
40°	127.4	164.5	141.5	156.3	120.0
42.5°	104.5	126.7	116.3	123.7	106.7
45°	83.0	103.0	103.0	103.0	83.7
47.5°	45.9	68.9	88.2	70.4	48.9
50°	25.9	34.8	68.2	36.3	27.4
52.5°	17.8	20.0	46.7	20.7	18.5
55°	13.3	14.1	25.2	14.8	14.1
57.5°	10.4	11.1	13.3	11.1	10.4
60°	8.1	8.1	9.6	8.9	8.1
62.5°	5.9	5.9	6.7	5.9	5.9
65°	4.4	4.4	4.4	4.4	4.4
67.5°	2.2	3.0	3.0	3.0	3.0
70°	2.2	1.5	1.5	1.5	2.2
72.5°	1.5	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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