

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: P772680

Luminaire Tested: LD6D85BD010-EU6DR3070959050-6LBDP1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P772680
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: LD6D85BD010-EU6DR3070959050-6LBDP1MW
Description: 6 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9548.9 lumens
Efficiency: N/A
Efficacy: 108.9 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): 87.7
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

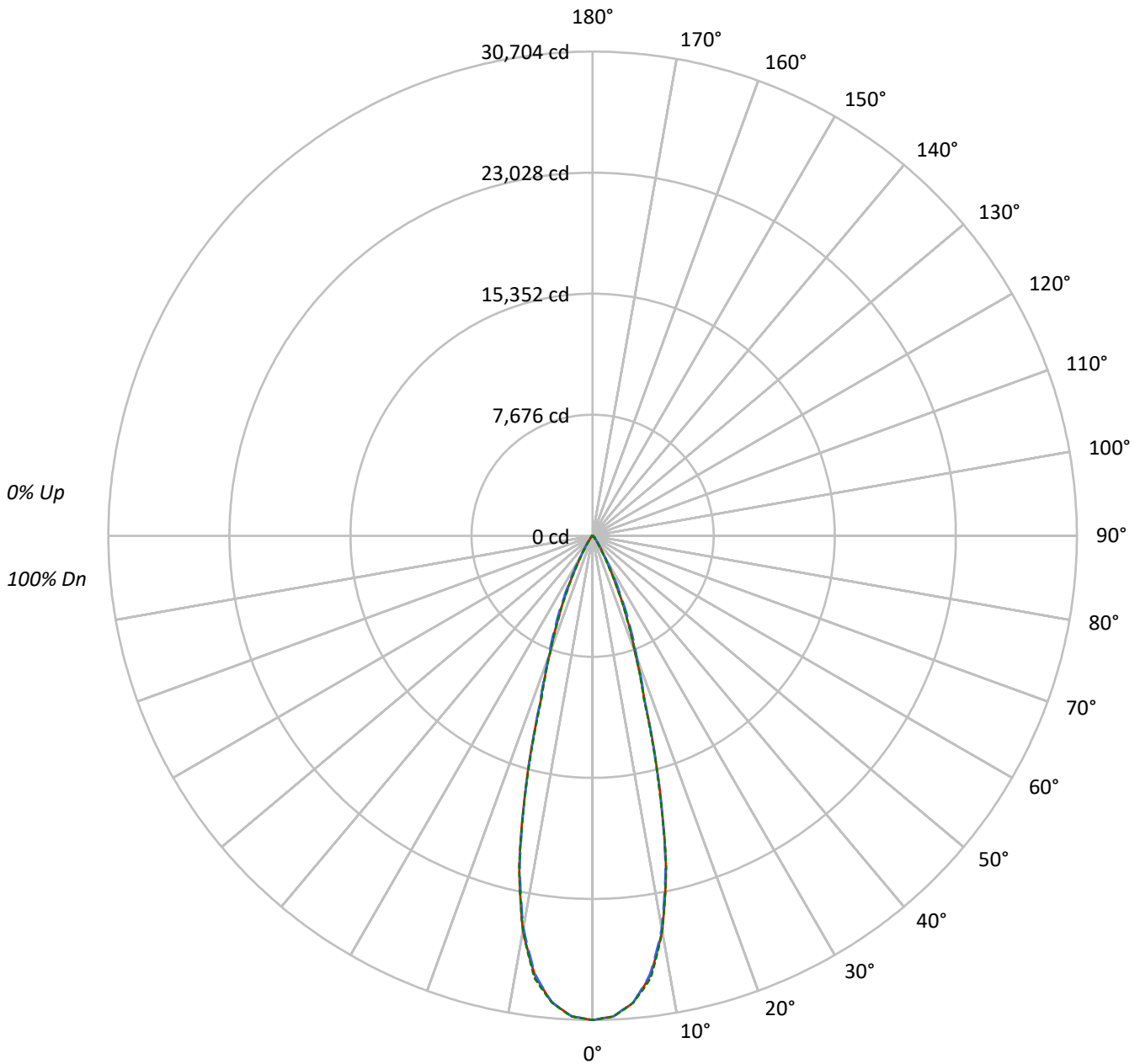


Downlight

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2350227	2350227	2350227
5°	2282760	2280094	2282876
10°	1977218	1963274	1976744
15°	1290038	1283104	1276653
20°	641472	665543	640617
25°	323130	364378	316508
30°	129378	140965	112717
35°	60009	57476	48179
40°	25909	28767	24401
45°	18272	22678	18435
50°	6287	16516	6645
55°	3616	6846	3817
60°	2541	3001	2541
65°	1630	1630	1630
70°	1007	671	1007
75°	0	444	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 22678 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2700.0	28.3
10°-20°	4348.4	45.5
20°-30°	1879.0	19.7
30°-40°	428.3	4.5
40°-50°	147.1	1.5
50°-60°	35.9	0.4
60°-70°	9.3	0.1
70°-80°	1.0	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°	8927.4	93.5
0°-40°	9355.7	98.0
0°-60°	9538.7	99.9
0°-90°	9548.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9548.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	30704	30704	30704	30704	30704	
5°	29710	29681	29675	29737	29711	2702
15°	16279	16083	16192	16139	16110	4359
25°	3826	3971	4314	3870	3748	1831
35°	642	656	615	610	516	436
45°	169	210	210	210	170	120
55°	27	29	51	30	29	26
65°	9	9	9	9	9	9
75°	0	0	2	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°	30704.5	30704.5	30704.5	30704.5	30704.5
2.5°	30501.0	30479.9	30492.0	30507.0	30513.1
5°	29709.6	29680.9	29674.9	29736.7	29711.1
7.5°	28113.1	28072.4	28010.6	28150.8	28282.0
10°	25438.9	25393.6	25259.5	25325.8	25432.8
12.5°	21490.7	21344.5	21341.5	21552.6	21523.9
15°	16279.4	16083.4	16191.9	16139.2	16110.5
17.5°	10947.4	10872.0	11016.7	10973.0	10784.6
20°	7875.1	7894.7	8170.6	8031.9	7864.6
22.5°	5746.5	5817.4	6144.5	5787.2	5656.1
25°	3826.0	3970.7	4314.4	3869.7	3747.6
27.5°	2353.2	2419.5	2767.7	2323.0	2256.7
30°	1463.8	1430.6	1594.9	1368.8	1275.3
32.5°	960.3	918.1	970.8	871.3	796.0
35°	642.2	655.8	615.1	610.5	515.6
37.5°	401.0	461.3	407.0	434.2	331.6
40°	259.3	334.7	287.9	318.1	244.2
42.5°	212.6	257.8	236.7	251.8	217.1
45°	168.8	209.5	209.5	209.5	170.3
47.5°	93.5	140.2	179.4	143.2	99.5
50°	52.8	70.9	138.7	73.9	55.8
52.5°	36.2	40.7	95.0	42.2	37.7
55°	27.1	28.6	51.3	30.1	28.6
57.5°	21.1	22.6	27.1	22.6	21.1
60°	16.6	16.6	19.6	18.1	16.6
62.5°	12.1	12.1	13.6	12.1	12.1
65°	9.0	9.0	9.0	9.0	9.0
67.5°	4.5	6.0	6.0	6.0	6.0
70°	4.5	3.0	3.0	3.0	4.5
72.5°	3.0	1.5	1.5	1.5	1.5
75°	0.0	0.0	1.5	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)