

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: P772654

Luminaire Tested: LD6D85BD010-EU6DR3070959035-6LBDP1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P772654
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-EU6DR3070959035-6LBDP1MW
Description: 6 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9057.8 lumens
Efficiency: N/A
Efficacy: 103.3 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

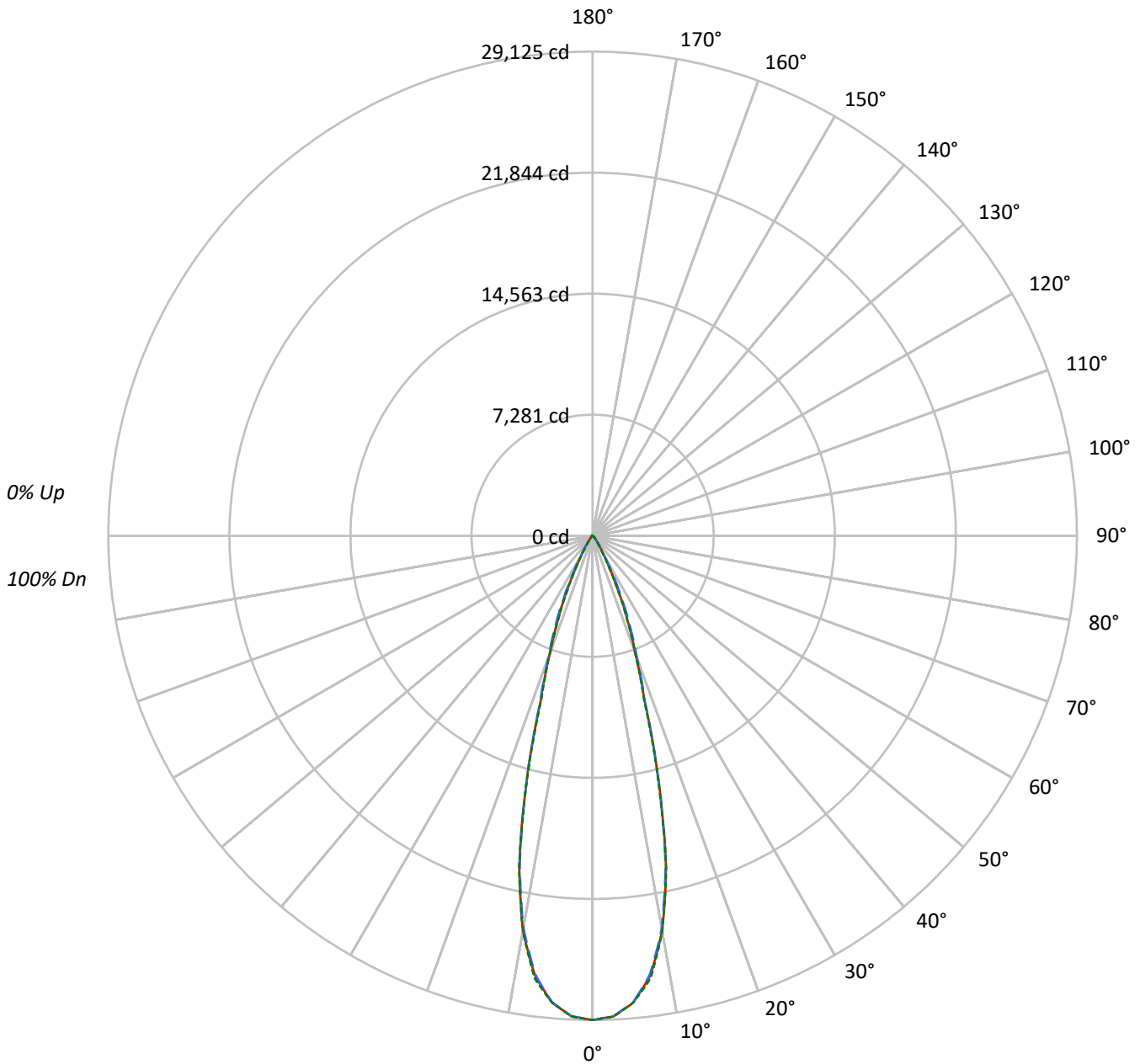


Downlight

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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	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°	2229334	2229334	2229334
5°	2165332	2162804	2165447
10°	1875508	1862280	1875065
15°	1223679	1217102	1210984
20°	608475	631307	607660
25°	306509	345637	300225
30°	122722	133717	106919
35°	56925	54514	45693
40°	24580	27288	23152
45°	17341	21520	17493
50°	5954	15671	6299
55°	3430	6486	3630
60°	2403	2847	2403
65°	1558	1558	1558
70°	962	649	962
75°	0	414	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 21520 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2561.1	28.3
10°-20°	4124.7	45.5
20°-30°	1782.4	19.7
30°-40°	406.2	4.5
40°-50°	139.5	1.5
50°-60°	34.1	0.4
60°-70°	8.8	0.1
70°-80°	0.9	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°	8468.2	93.5
0°-40°	8874.4	98.0
0°-60°	9048.0	99.9
0°-90°	9057.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9057.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	29125	29125	29125	29125	29125	
5°	28181	28154	28148	28207	28183	2563
15°	15442	15256	15359	15309	15282	4135
25°	3629	3766	4092	3671	3555	1737
35°	609	622	583	579	489	413
45°	160	199	199	199	162	114
55°	26	27	49	29	27	25
65°	9	9	9	9	9	8
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°	29125.1	29125.1	29125.1	29125.1	29125.1
2.5°	28932.1	28912.0	28923.5	28937.8	28943.5
5°	28181.3	28154.2	28148.4	28207.1	28182.8
7.5°	26667.0	26628.4	26569.8	26702.8	26827.2
10°	24130.3	24087.4	23960.1	24023.1	24124.6
12.5°	20385.3	20246.6	20243.7	20443.9	20416.7
15°	15442.0	15256.1	15359.0	15309.0	15281.8
17.5°	10384.3	10312.8	10450.0	10408.6	10229.8
20°	7470.0	7488.6	7750.3	7618.7	7460.0
22.5°	5450.9	5518.2	5828.5	5489.6	5365.1
25°	3629.2	3766.5	4092.5	3670.7	3554.8
27.5°	2232.1	2295.1	2625.4	2203.5	2140.6
30°	1388.5	1357.0	1512.9	1298.4	1209.7
32.5°	910.9	870.8	920.9	826.5	755.0
35°	609.2	622.0	583.4	579.1	489.0
37.5°	380.4	437.6	386.1	411.8	314.6
40°	246.0	317.4	273.1	301.7	231.7
42.5°	201.6	244.5	224.5	238.8	205.9
45°	160.2	198.8	198.8	198.8	161.6
47.5°	88.7	133.0	170.2	135.8	94.4
50°	50.0	67.2	131.6	70.1	52.9
52.5°	34.3	38.6	90.1	40.0	35.7
55°	25.7	27.2	48.6	28.6	27.2
57.5°	20.0	21.4	25.7	21.4	20.0
60°	15.7	15.7	18.6	17.2	15.7
62.5°	11.4	11.4	12.9	11.4	11.4
65°	8.6	8.6	8.6	8.6	8.6
67.5°	4.3	5.7	5.7	5.7	5.7
70°	4.3	2.9	2.9	2.9	4.3
72.5°	2.9	1.4	1.4	1.4	1.4
75°	0.0	0.0	1.4	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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