

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: P772638

Luminaire Tested: LD6D85BD010-EU6DR3070959030-6LBDP1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P772638
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-EU6DR3070959030-6LBDP1B
Description: 6 INCH ROUND DEEP 45° CUTOFF 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: 8089.6 lumens
Efficiency: N/A
Efficacy: 92.2 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

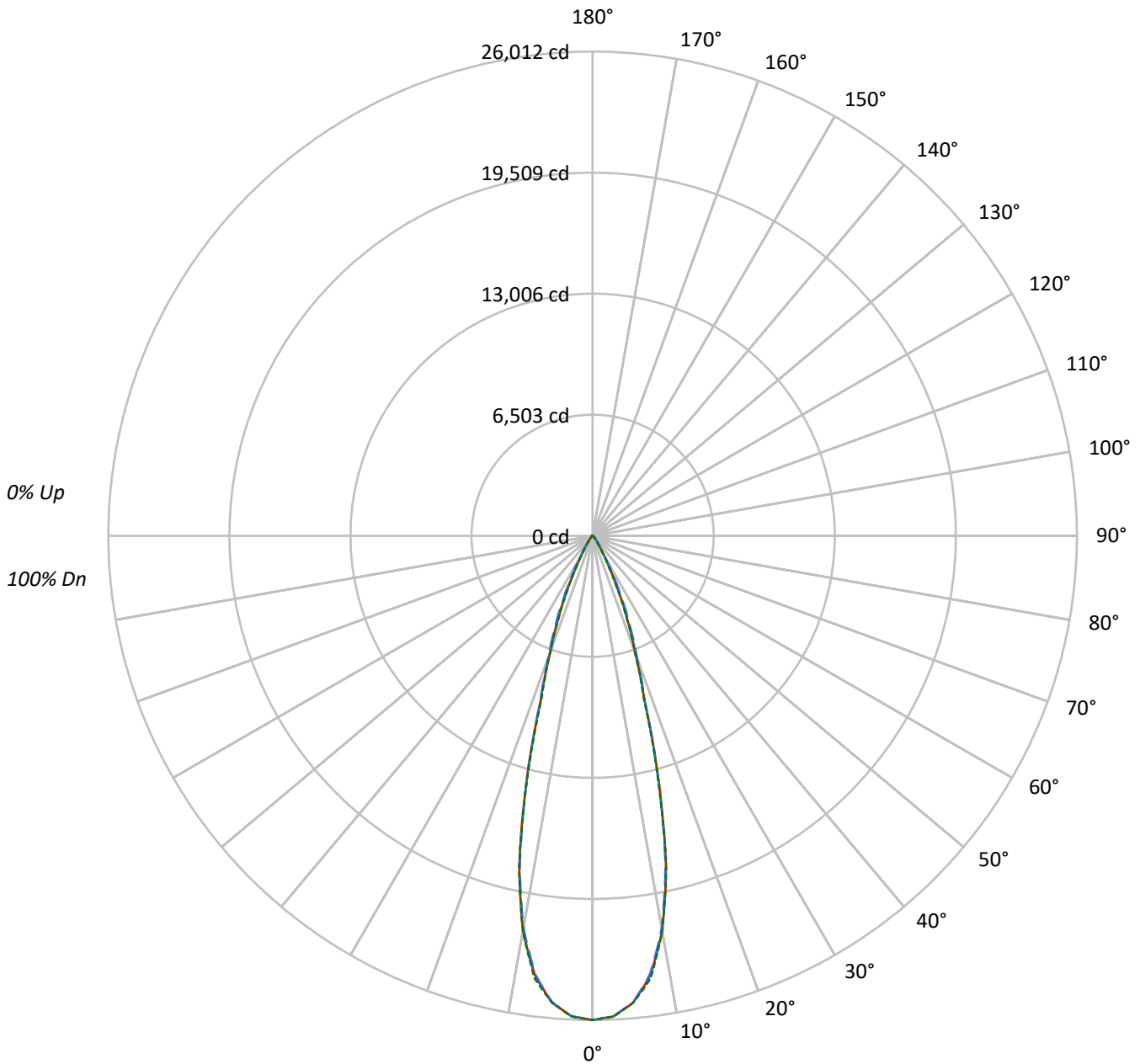


Downlight

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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°	1991032	1991032	1991032
5°	1933872	1931621	1933972
10°	1675026	1663220	1674630
15°	1092872	1087000	1081540
20°	543432	563821	542707
25°	273748	308688	268140
30°	109606	119425	95491
35°	50833	48693	40816
40°	21952	24371	20674
45°	15480	19214	15620
50°	5323	13992	5633
55°	3069	5792	3243
60°	2143	2541	2143
65°	1395	1395	1395
70°	850	582	850
75°	0	384	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 19214 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2287.3	28.3
10°-20°	3683.8	45.5
20°-30°	1591.9	19.7
30°-40°	362.8	4.5
40°-50°	124.6	1.5
50°-60°	30.4	0.4
60°-70°	7.9	0.1
70°-80°	0.8	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°	7563.0	93.5
0°-40°	7925.8	98.0
0°-60°	8080.8	99.9
0°-90°	8089.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8089.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	26012	26012	26012	26012	26012	
5°	25169	25145	25140	25192	25170	2289
15°	13791	13625	13717	13672	13648	3693
25°	3241	3364	3655	3278	3175	1551
35°	544	556	521	517	437	369
45°	143	178	178	178	144	102
55°	23	24	43	26	24	22
65°	8	8	8	8	8	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°	26011.8	26011.8	26011.8	26011.8	26011.8
2.5°	25839.4	25821.5	25831.7	25844.5	25849.6
5°	25168.9	25144.7	25139.6	25191.9	25170.2
7.5°	23816.5	23782.0	23729.6	23848.4	23959.5
10°	21550.9	21512.6	21399.0	21455.1	21545.8
12.5°	18206.2	18082.3	18079.8	18258.6	18234.3
15°	13791.3	13625.3	13717.2	13672.5	13648.3
17.5°	9274.2	9210.4	9333.0	9296.0	9136.3
20°	6671.5	6688.1	6921.8	6804.3	6662.6
22.5°	4868.3	4928.3	5205.4	4902.8	4791.6
25°	3241.3	3363.9	3655.0	3278.3	3174.9
27.5°	1993.5	2049.7	2344.7	1968.0	1911.8
30°	1240.1	1212.0	1351.2	1159.6	1080.4
32.5°	813.5	777.7	822.4	738.2	674.3
35°	544.0	555.5	521.1	517.2	436.8
37.5°	339.7	390.8	344.8	367.8	281.0
40°	219.7	283.5	243.9	269.5	206.9
42.5°	180.1	218.4	200.5	213.3	183.9
45°	143.0	177.5	177.5	177.5	144.3
47.5°	79.2	118.8	152.0	121.3	84.3
50°	44.7	60.0	117.5	62.6	47.3
52.5°	30.7	34.5	80.5	35.8	31.9
55°	23.0	24.3	43.4	25.5	24.3
57.5°	17.9	19.2	23.0	19.2	17.9
60°	14.0	14.0	16.6	15.3	14.0
62.5°	10.2	10.2	11.5	10.2	10.2
65°	7.7	7.7	7.7	7.7	7.7
67.5°	3.8	5.1	5.1	5.1	5.1
70°	3.8	2.6	2.6	2.6	3.8
72.5°	2.6	1.3	1.3	1.3	1.3
75°	0.0	0.0	1.3	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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