

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: P772625

Luminaire Tested: LD6D85BD010-EU6DR3070959027-6LBDP1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P772625
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-EU6DR3070959027-6LBDP1B
Description: 6 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7852.2 lumens
Efficiency: N/A
Efficacy: 89.5 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

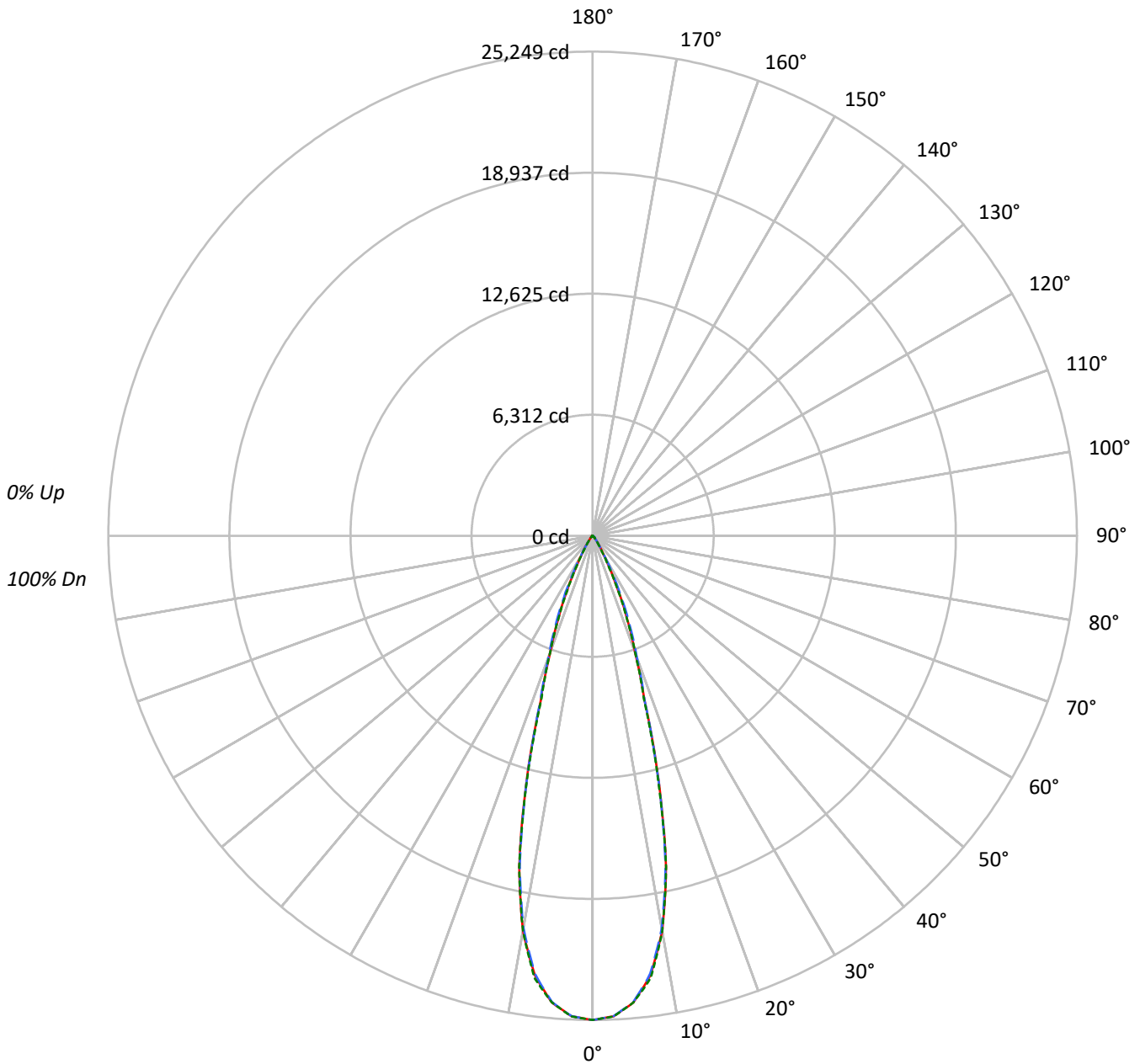


Downlight

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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						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°	1932629	1932629	1932629
5°	1877144	1874954	1877244
10°	1625897	1614425	1625508
15°	1060818	1055120	1049811
20°	527491	547285	526791
25°	265716	299634	260269
30°	106389	115917	92689
35°	49347	47263	39620
40°	21303	23661	20064
45°	15025	18651	15166
50°	5168	13575	5466
55°	2976	5618	3149
60°	2082	2465	2082
65°	1340	1340	1340
70°	828	559	828
75°	0	355	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 18651 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2220.2	28.3
10°-20°	3575.7	45.5
20°-30°	1545.2	19.7
30°-40°	352.2	4.5
40°-50°	120.9	1.5
50°-60°	29.5	0.4
60°-70°	7.7	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°	7341.1	93.5
0°-40°	7693.3	98.0
0°-60°	7843.8	99.9
0°-90°	7852.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7852.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	25249	25249	25249	25249	25249	
5°	24431	24407	24402	24453	24432	2222
15°	13387	13226	13315	13272	13248	3584
25°	3146	3265	3548	3182	3082	1506
35°	528	539	506	502	424	358
45°	139	172	172	172	140	99
55°	22	24	42	25	24	22
65°	7	7	7	7	7	7
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°	25248.8	25248.8	25248.8	25248.8	25248.8
2.5°	25081.4	25064.1	25074.0	25086.4	25091.4
5°	24430.6	24407.1	24402.1	24453.0	24431.9
7.5°	23117.9	23084.4	23033.6	23148.9	23256.7
10°	20918.8	20881.6	20771.2	20825.8	20913.8
12.5°	17672.2	17551.9	17549.4	17723.0	17699.4
15°	13386.8	13225.6	13314.9	13271.5	13247.9
17.5°	9002.2	8940.2	9059.2	9023.3	8868.3
20°	6475.8	6491.9	6718.8	6604.8	6467.2
22.5°	4725.5	4783.7	5052.7	4758.9	4651.1
25°	3146.2	3265.2	3547.8	3182.1	3081.7
27.5°	1935.1	1989.6	2276.0	1910.3	1855.7
30°	1203.7	1176.4	1311.5	1125.6	1048.7
32.5°	789.6	754.9	798.3	716.5	654.5
35°	528.1	539.2	505.8	502.1	424.0
37.5°	329.7	379.3	334.7	357.0	272.7
40°	213.2	275.2	236.8	261.6	200.8
42.5°	174.8	212.0	194.6	207.0	178.5
45°	138.8	172.3	172.3	172.3	140.1
47.5°	76.9	115.3	147.5	117.8	81.8
50°	43.4	58.3	114.0	60.7	45.9
52.5°	29.8	33.5	78.1	34.7	31.0
55°	22.3	23.6	42.1	24.8	23.6
57.5°	17.4	18.6	22.3	18.6	17.4
60°	13.6	13.6	16.1	14.9	13.6
62.5°	9.9	9.9	11.2	9.9	9.9
65°	7.4	7.4	7.4	7.4	7.4
67.5°	3.7	5.0	5.0	5.0	5.0
70°	3.7	2.5	2.5	2.5	3.7
72.5°	2.5	1.2	1.2	1.2	1.2
75°	0.0	0.0	1.2	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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