

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: P772612

Luminaire Tested: LD6D85BD010-EU6DR3070959024-6LBDP1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P772612
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-EU6DR3070959024-6LBDP1B
Description: 6 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6931.9 lumens
Efficiency: N/A
Efficacy: 79.0 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

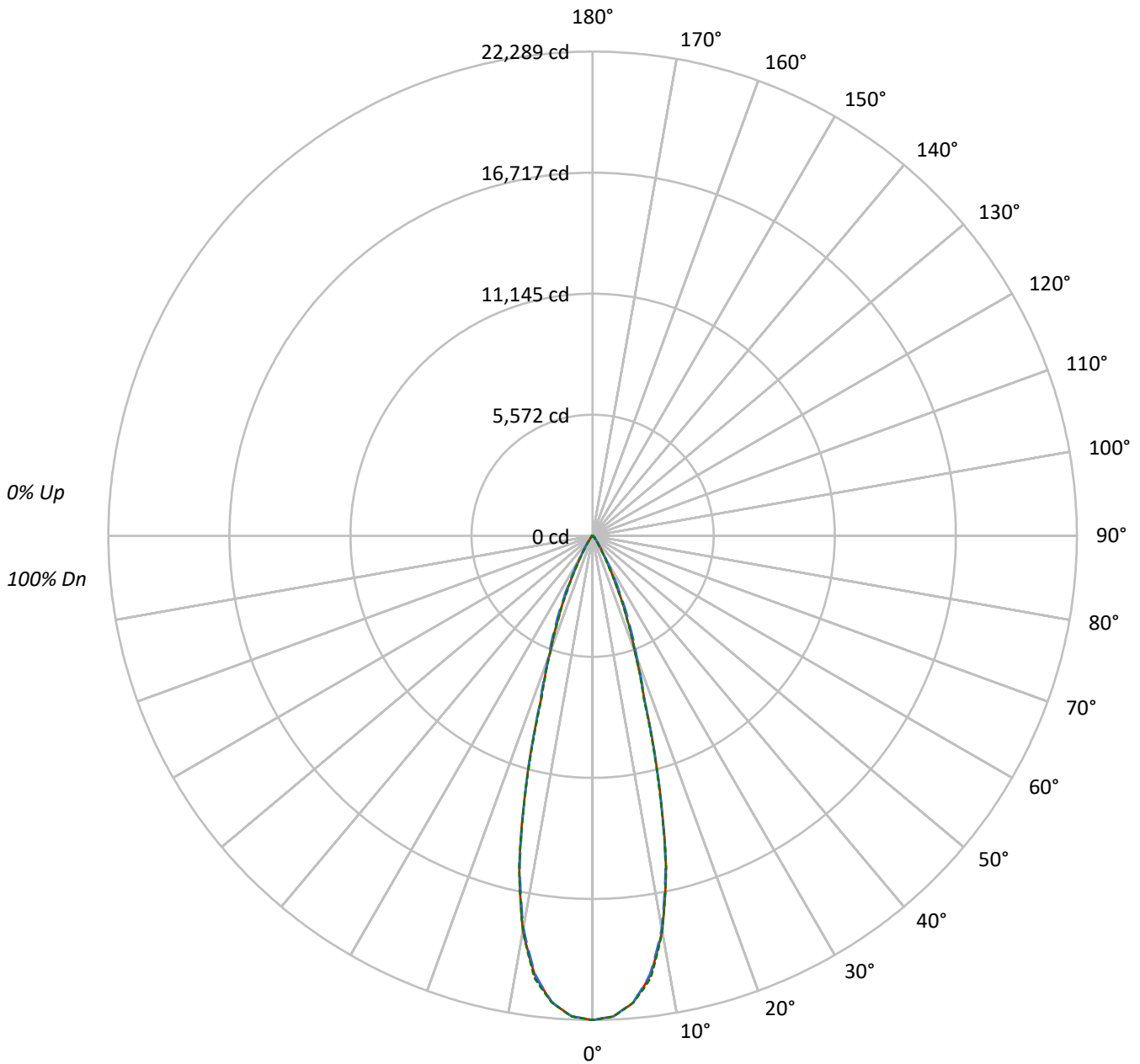


Downlight

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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°	1706091	1706091	1706091
5°	1657117	1655181	1657202
10°	1435310	1425190	1434975
15°	936469	931445	926761
20°	465666	483131	465039
25°	234569	264517	229763
30°	93918	102332	81827
35°	43563	41722	34975
40°	18805	20883	17716
45°	13271	16465	13390
50°	4561	11991	4823
55°	2629	4964	2776
60°	1837	2174	1837
65°	1195	1195	1195
70°	739	492	739
75°	0	325	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 16465 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1960.0	28.3
10°-20°	3156.6	45.5
20°-30°	1364.1	19.7
30°-40°	310.9	4.5
40°-50°	106.7	1.5
50°-60°	26.1	0.4
60°-70°	6.8	0.1
70°-80°	0.7	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°	6480.7	93.5
0°-40°	6791.5	98.0
0°-60°	6924.4	99.9
0°-90°	6931.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6931.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	22289	22289	22289	22289	22289	
5°	21567	21546	21542	21587	21568	1962
15°	11818	11675	11754	11716	11695	3164
25°	2777	2882	3132	2809	2720	1329
35°	466	476	446	443	374	316
45°	123	152	152	152	124	87
55°	20	21	37	22	21	19
65°	7	7	7	7	7	6
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°	22289.2	22289.2	22289.2	22289.2	22289.2
2.5°	22141.5	22126.2	22134.9	22145.9	22150.3
5°	21567.0	21546.2	21541.8	21586.7	21568.1
7.5°	20408.1	20378.5	20333.7	20435.4	20530.6
10°	18466.7	18433.9	18336.5	18384.7	18462.4
12.5°	15600.7	15494.6	15492.4	15645.6	15624.8
15°	11817.6	11675.4	11754.2	11715.9	11695.1
17.5°	7947.0	7892.3	7997.3	7965.6	7828.8
20°	5716.8	5731.0	5931.2	5830.6	5709.1
22.5°	4171.6	4223.0	4460.5	4201.1	4105.9
25°	2777.4	2882.5	3132.0	2809.1	2720.5
27.5°	1708.2	1756.4	2009.2	1686.4	1638.2
30°	1062.6	1038.5	1157.8	993.6	925.8
32.5°	697.1	666.4	704.7	632.5	577.8
35°	466.2	476.0	446.5	443.2	374.3
37.5°	291.1	334.9	295.5	315.2	240.8
40°	188.2	242.9	209.0	230.9	177.3
42.5°	154.3	187.1	171.8	182.8	157.6
45°	122.6	152.1	152.1	152.1	123.7
47.5°	67.8	101.8	130.2	104.0	72.2
50°	38.3	51.4	100.7	53.6	40.5
52.5°	26.3	29.5	68.9	30.6	27.4
55°	19.7	20.8	37.2	21.9	20.8
57.5°	15.3	16.4	19.7	16.4	15.3
60°	12.0	12.0	14.2	13.1	12.0
62.5°	8.8	8.8	9.8	8.8	8.8
65°	6.6	6.6	6.6	6.6	6.6
67.5°	3.3	4.4	4.4	4.4	4.4
70°	3.3	2.2	2.2	2.2	3.3
72.5°	2.2	1.1	1.1	1.1	1.1
75°	0.0	0.0	1.1	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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