

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: P771884

Luminaire Tested: LD6D80BD010-EU6DR3070959040-6LBDP1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P771884  
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: LD6D80BD010-EU6DR3070959040-6LBDP1B  
Description: 6 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8037.9 lumens  
Efficiency: N/A  
Efficacy: 101.9 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): 78.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

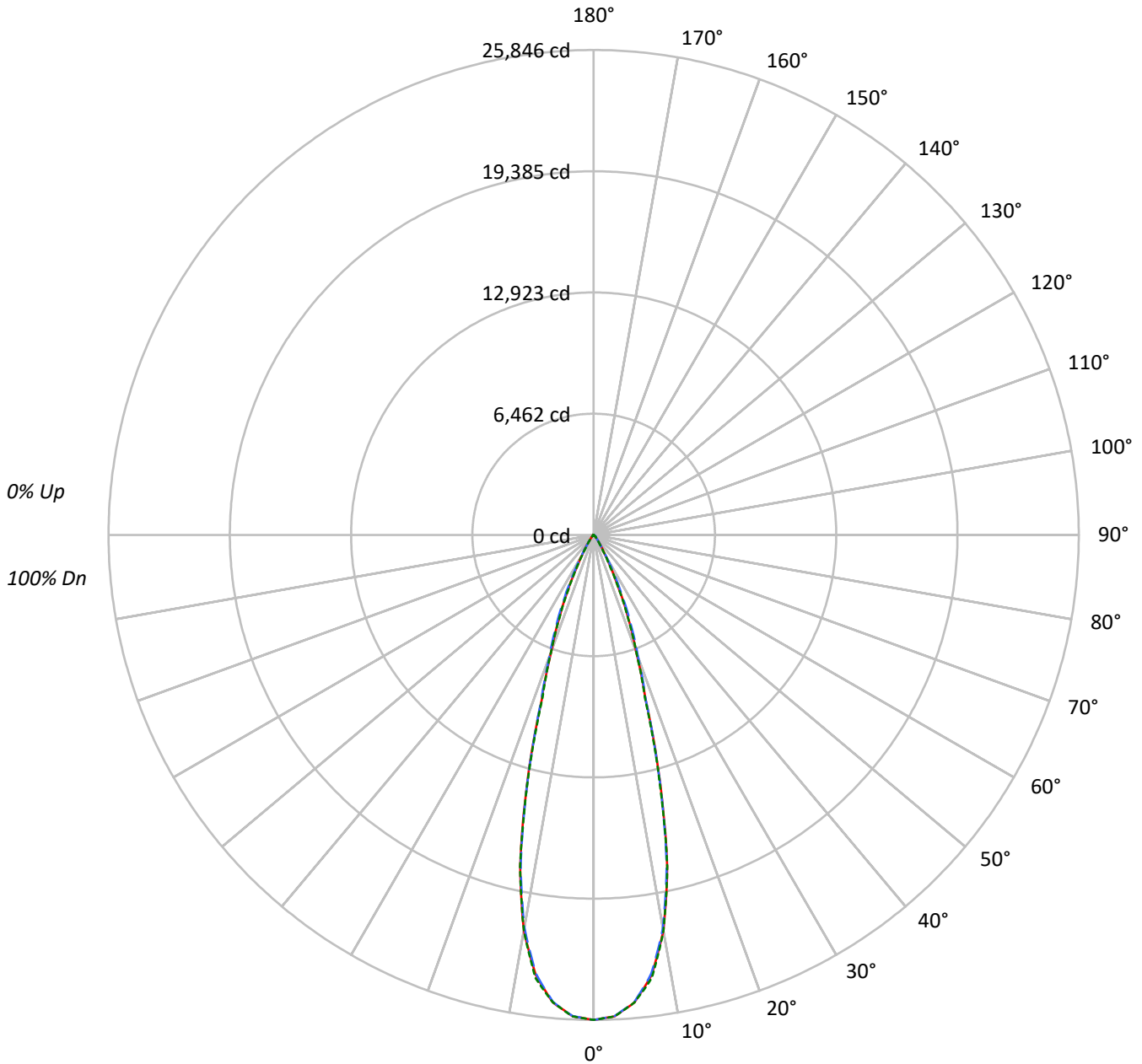


Downlight

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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°	1978325	1978325	1978325
5°	1921532	1919289	1921632
10°	1664339	1652603	1663943
15°	1085898	1080066	1074638
20°	539962	560228	539245
25°	272000	306720	266426
30°	108899	118656	94881
35°	50515	48375	40554
40°	21813	24221	20544
45°	15382	19095	15523
50°	5287	13897	5597
55°	3043	5752	3216
60°	2143	2526	2143
65°	1376	1376	1376
70°	850	559	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: 19095 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2272.7	28.3
10°-20°	3660.3	45.5
20°-30°	1581.7	19.7
30°-40°	360.5	4.5
40°-50°	123.8	1.5
50°-60°	30.2	0.4
60°-70°	7.8	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°	7514.7	93.5
0°-40°	7875.2	98.0
0°-60°	8029.2	99.9
0°-90°	8037.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8037.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	25846	25846	25846	25846	25846	
5°	25008	24984	24979	25031	25010	2275
15°	13703	13538	13630	13585	13561	3669
25°	3221	3342	3632	3257	3155	1542
35°	541	552	518	514	434	367
45°	142	176	176	176	143	101
55°	23	24	43	25	24	22
65°	8	8	8	8	8	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°	25845.8	25845.8	25845.8	25845.8	25845.8
2.5°	25674.5	25656.7	25666.9	25679.6	25684.6
5°	25008.3	24984.2	24979.1	25031.1	25009.6
7.5°	23664.5	23630.2	23578.2	23696.2	23806.6
10°	21413.4	21375.3	21262.4	21318.2	21408.3
12.5°	18090.0	17966.9	17964.4	18142.1	18117.9
15°	13703.3	13538.3	13629.7	13585.3	13561.2
17.5°	9215.0	9151.6	9273.4	9236.6	9078.0
20°	6628.9	6645.4	6877.7	6760.9	6620.1
22.5°	4837.2	4896.8	5172.2	4871.5	4761.1
25°	3220.6	3342.4	3631.7	3257.4	3154.6
27.5°	1980.8	2036.7	2329.8	1955.4	1899.6
30°	1232.1	1204.2	1342.5	1152.2	1073.5
32.5°	808.3	772.8	817.2	733.4	670.0
35°	540.6	552.0	517.7	513.9	434.0
37.5°	337.5	388.3	342.6	365.5	279.2
40°	218.3	281.7	242.4	267.7	205.6
42.5°	178.9	217.0	199.2	211.9	182.7
45°	142.1	176.4	176.4	176.4	143.4
47.5°	78.7	118.0	151.0	120.5	83.8
50°	44.4	59.6	116.7	62.2	47.0
52.5°	30.5	34.3	79.9	35.5	31.7
55°	22.8	24.1	43.1	25.4	24.1
57.5°	17.8	19.0	22.8	19.0	17.8
60°	14.0	14.0	16.5	15.2	14.0
62.5°	10.2	10.2	11.4	10.2	10.2
65°	7.6	7.6	7.6	7.6	7.6
67.5°	3.8	5.1	5.1	5.1	5.1
70°	3.8	2.5	2.5	2.5	3.8
72.5°	2.5	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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