

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: P773420

Luminaire Tested: LD6D90BD010-EU6DR3070959030-6LBDP1LI

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P773420  
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: LD6D90BD010-EU6DR3070959030-6LBDP1LI  
Description: 6 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11192.5 lumens  
Efficiency: N/A  
Efficacy: 113.2 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): 98.9  
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

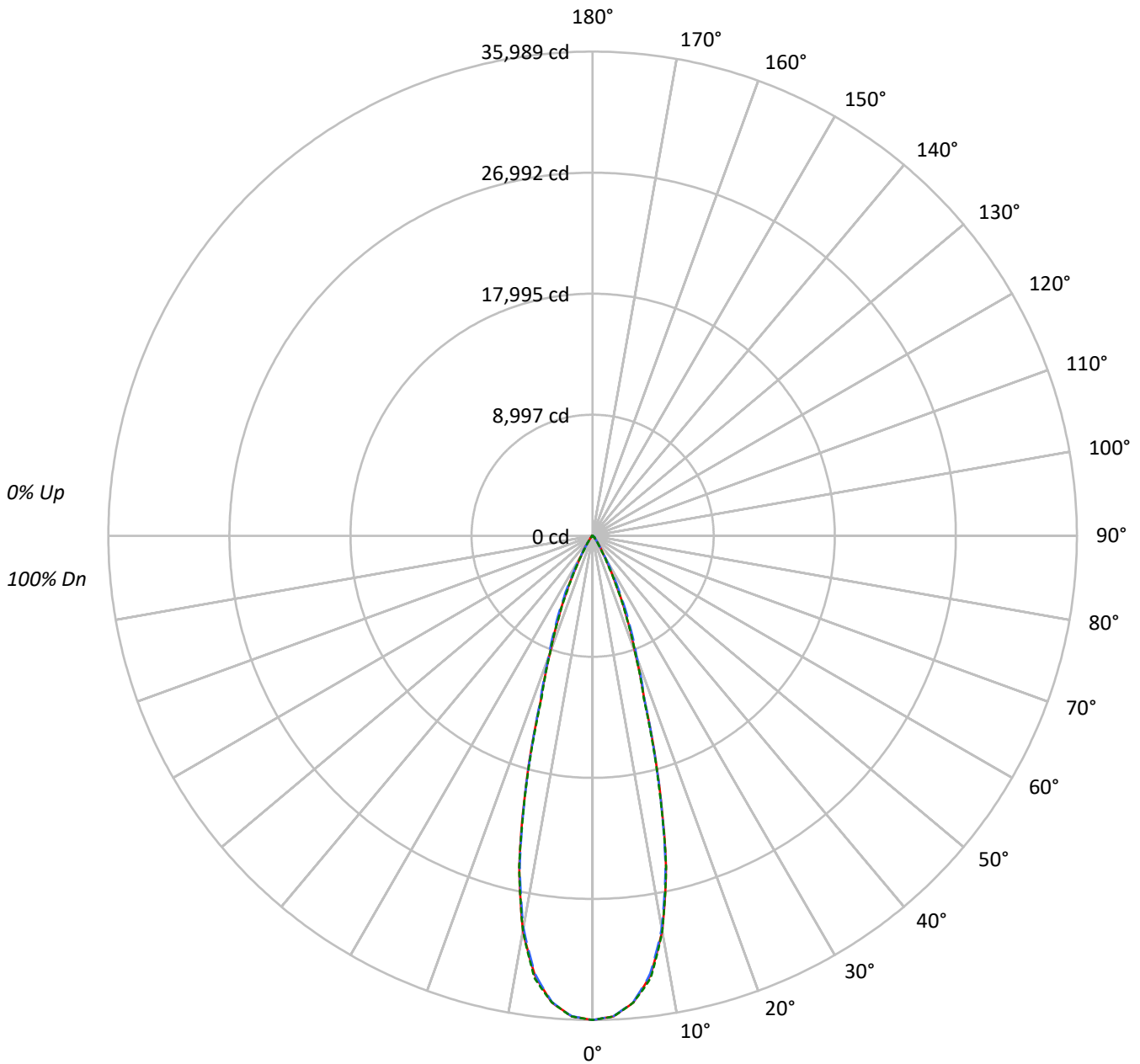


Downlight

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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°	2754743	2754743	2754743
5°	2675660	2672533	2675791
10°	2317526	2301180	2316974
15°	1512070	1503948	1496388
20°	751886	780094	750876
25°	378744	427095	370983
30°	151642	165226	132117
35°	70334	67363	56467
40°	30366	33723	28597
45°	21422	26586	21617
50°	7359	19362	7788
55°	4244	8020	4484
60°	2970	3521	2970
65°	1920	1920	1920
70°	1186	783	1186
75°	0	532	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 26586 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3164.7	28.3
10°-20°	5096.8	45.5
20°-30°	2202.5	19.7
30°-40°	502.0	4.5
40°-50°	172.4	1.5
50°-60°	42.1	0.4
60°-70°	10.9	0.1
70°-80°	1.2	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°	10464.0	93.5
0°-40°	10965.9	98.0
0°-60°	11180.4	99.9
0°-90°	11192.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11192.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	35989	35989	35989	35989	35989	
5°	34823	34790	34782	34855	34825	3167
15°	19081	18852	18979	18917	18883	5109
25°	4484	4654	5057	4536	4393	2147
35°	753	769	721	716	604	511
45°	198	246	246	246	200	140
55°	32	34	60	35	34	31
65°	11	11	11	11	11	10
75°	0	0	2	0	0	2
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	35989.3	35989.3	35989.3	35989.3	35989.3
2.5°	35750.7	35726.0	35740.1	35757.8	35764.8
5°	34823.1	34789.5	34782.4	34854.9	34824.8
7.5°	32951.9	32904.2	32831.7	32996.0	33149.8
10°	29817.3	29764.3	29607.0	29684.8	29810.2
12.5°	25189.6	25018.3	25014.7	25262.1	25228.5
15°	19081.3	18851.6	18978.8	18917.0	18883.4
17.5°	12831.6	12743.2	12912.9	12861.6	12640.8
20°	9230.6	9253.5	9576.9	9414.3	9218.2
22.5°	6735.6	6818.7	7202.1	6783.3	6629.6
25°	4484.5	4654.1	5057.0	4535.8	4392.6
27.5°	2758.2	2836.0	3244.1	2722.9	2645.1
30°	1715.7	1676.8	1869.4	1604.4	1494.8
32.5°	1125.5	1076.1	1137.9	1021.3	932.9
35°	752.7	768.6	720.9	715.6	604.3
37.5°	470.0	540.7	477.1	508.9	388.7
40°	303.9	392.3	337.5	372.8	286.2
42.5°	249.1	302.1	277.4	295.1	254.4
45°	197.9	245.6	245.6	245.6	199.7
47.5°	109.6	164.3	210.3	167.9	116.6
50°	61.8	83.0	162.6	86.6	65.4
52.5°	42.4	47.7	111.3	49.5	44.2
55°	31.8	33.6	60.1	35.3	33.6
57.5°	24.7	26.5	31.8	26.5	24.7
60°	19.4	19.4	23.0	21.2	19.4
62.5°	14.1	14.1	15.9	14.1	14.1
65°	10.6	10.6	10.6	10.6	10.6
67.5°	5.3	7.1	7.1	7.1	7.1
70°	5.3	3.5	3.5	3.5	5.3
72.5°	3.5	1.8	1.8	1.8	1.8
75°	0.0	0.0	1.8	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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