

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: P773447

Luminaire Tested: LD6D90BD010-EU6DR3070959040-6LBDP1MW

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P773447  
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-EU6DR3070959040-6LBDP1MW  
Description: 6 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10058.3 lumens  
Efficiency: N/A  
Efficacy: 101.7 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

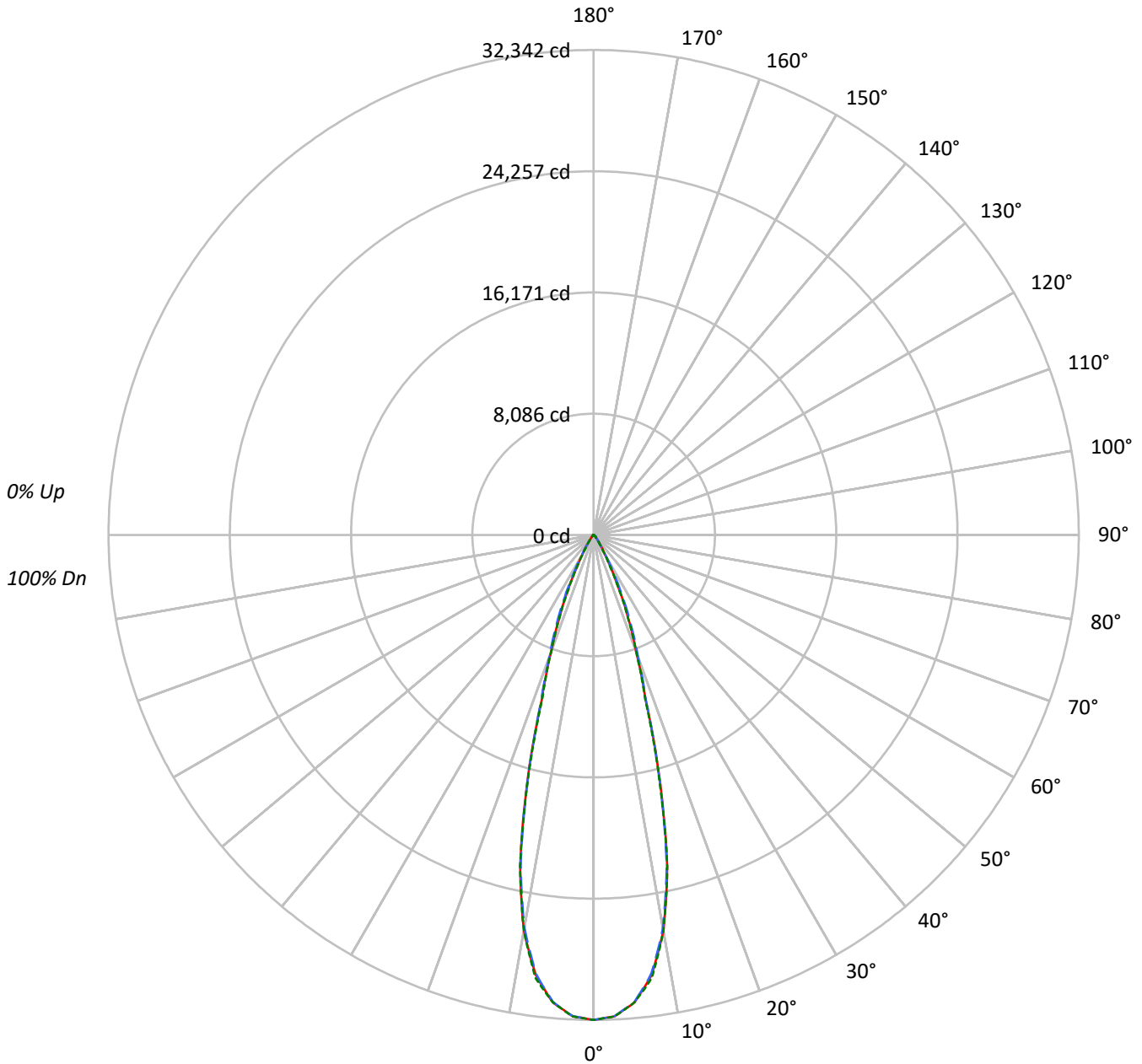


Downlight

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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°	2475582	2475582	2475582
5°	2404514	2401710	2404637
10°	2082674	2067992	2082185
15°	1358845	1351546	1344747
20°	675692	701041	674780
25°	340367	383820	333391
30°	136272	148486	118736
35°	63204	60541	50748
40°	27288	30306	25700
45°	19247	23890	19420
50°	6621	17398	7002
55°	3817	7206	4030
60°	2679	3154	2679
65°	1721	1721	1721
70°	1074	716	1074
75°	0	473	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 23890 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2844.0	28.3
10°-20°	4580.3	45.5
20°-30°	1979.3	19.7
30°-40°	451.1	4.5
40°-50°	154.9	1.5
50°-60°	37.8	0.4
60°-70°	9.8	0.1
70°-80°	1.0	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°	9403.6	93.5
0°-40°	9854.7	98.0
0°-60°	10047.4	99.9
0°-90°	10058.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10058.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	32342	32342	32342	32342	32342	
5°	31294	31264	31258	31323	31296	2846
15°	17148	16941	17056	17000	16970	4592
25°	4030	4182	4545	4076	3948	1929
35°	676	691	648	643	543	459
45°	178	221	221	221	179	126
55°	29	30	54	32	30	28
65°	10	10	10	10	10	9
75°	0	0	2	0	0	1
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°	32342.2	32342.2	32342.2	32342.2	32342.2
2.5°	32127.9	32105.6	32118.4	32134.2	32140.6
5°	31294.2	31264.1	31257.7	31322.8	31295.8
7.5°	29612.7	29569.8	29504.7	29652.4	29790.5
10°	26795.7	26748.1	26606.8	26676.6	26789.4
12.5°	22637.0	22483.0	22479.8	22702.1	22672.0
15°	17147.7	16941.3	17055.6	17000.0	16969.8
17.5°	11531.3	11451.9	11604.3	11558.3	11359.8
20°	8295.2	8315.8	8606.4	8460.3	8284.0
22.5°	6053.1	6127.7	6472.3	6095.9	5957.8
25°	4030.1	4182.5	4544.6	4076.1	3947.5
27.5°	2478.7	2548.6	2915.4	2446.9	2377.1
30°	1541.8	1506.9	1680.0	1441.8	1343.4
32.5°	1011.5	967.0	1022.6	917.8	838.4
35°	676.4	690.7	647.9	643.1	543.1
37.5°	422.4	485.9	428.7	457.3	349.3
40°	273.1	352.5	303.3	335.0	257.2
42.5°	223.9	271.5	249.3	265.2	228.7
45°	177.8	220.7	220.7	220.7	179.4
47.5°	98.4	147.7	189.0	150.9	104.8
50°	55.6	74.6	146.1	77.8	58.8
52.5°	38.1	42.9	100.0	44.5	39.7
55°	28.6	30.2	54.0	31.8	30.2
57.5°	22.2	23.8	28.6	23.8	22.2
60°	17.5	17.5	20.6	19.1	17.5
62.5°	12.7	12.7	14.3	12.7	12.7
65°	9.5	9.5	9.5	9.5	9.5
67.5°	4.8	6.4	6.4	6.4	6.4
70°	4.8	3.2	3.2	3.2	4.8
72.5°	3.2	1.6	1.6	1.6	1.6
75°	0.0	0.0	1.6	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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(END OF REPORT)