

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: P772645

Luminaire Tested: LD6D85BD010-EU6DR3070959030-6LBS1MW

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P772645  
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-EU6DR3070959030-6LBS1MW  
Description: 6 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10053.8 lumens  
Efficiency: N/A  
Efficacy: 114.6 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<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

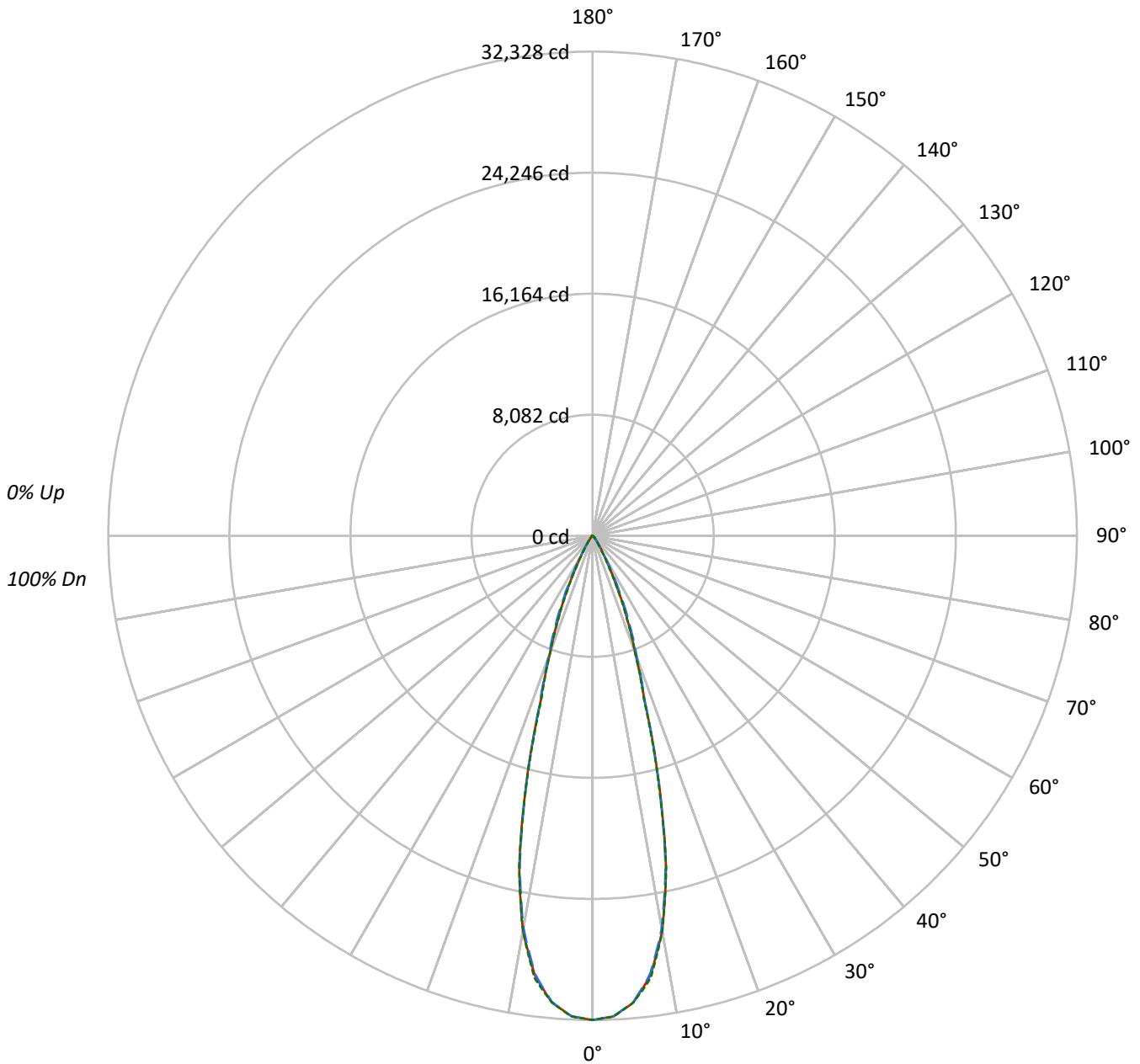


Downlight

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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°	2474480	2474480	2474480
5°	2403446	2400642	2403569
10°	2081749	2067067	2081252
15°	1358235	1350944	1344153
20°	675391	700731	674486
25°	340215	383643	333239
30°	136219	148416	118683
35°	63176	60513	50720
40°	27278	30296	25690
45°	19247	23880	19420
50°	6621	17386	6990
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: 23880 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2842.7	28.3
10°-20°	4578.3	45.5
20°-30°	1978.4	19.7
30°-40°	450.9	4.5
40°-50°	154.8	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°	9399.4	93.5
0°-40°	9850.3	98.0
0°-60°	10043.0	99.9
0°-90°	10053.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10053.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	32328	32328	32328	32328	32328	
5°	31280	31250	31244	31309	31282	2845
15°	17140	16934	17048	16992	16962	4589
25°	4028	4181	4542	4074	3946	1928
35°	676	690	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°	32327.8	32327.8	32327.8	32327.8	32327.8
2.5°	32113.6	32091.3	32104.0	32119.9	32126.3
5°	31280.3	31250.1	31243.8	31308.9	31281.9
7.5°	29599.5	29556.6	29491.5	29639.1	29777.2
10°	26783.8	26736.2	26594.9	26664.7	26777.4
12.5°	22626.9	22473.0	22469.8	22692.0	22661.9
15°	17140.0	16933.7	17048.0	16992.4	16962.3
17.5°	11526.2	11446.8	11599.2	11553.1	11354.7
20°	8291.5	8312.1	8602.6	8456.5	8280.4
22.5°	6050.4	6125.0	6469.4	6093.2	5955.1
25°	4028.3	4180.7	4542.5	4074.3	3945.7
27.5°	2477.6	2547.4	2914.1	2445.9	2376.0
30°	1541.2	1506.2	1679.2	1441.2	1342.8
32.5°	1011.0	966.6	1022.1	917.4	838.0
35°	676.1	690.4	647.6	642.8	542.8
37.5°	422.2	485.7	428.5	457.1	349.2
40°	273.0	352.4	303.2	334.9	257.1
42.5°	223.8	271.4	249.2	265.1	228.6
45°	177.8	220.6	220.6	220.6	179.4
47.5°	98.4	147.6	188.9	150.8	104.8
50°	55.6	74.6	146.0	77.8	58.7
52.5°	38.1	42.9	100.0	44.4	39.7
55°	28.6	30.2	54.0	31.7	30.2
57.5°	22.2	23.8	28.6	23.8	22.2
60°	17.5	17.5	20.6	19.0	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	6.3	6.3	6.3	6.3
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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