

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: P772652

Luminaire Tested: LD6D85BD010-EU6DR3070959035-6LBDP1H

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P772652  
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-EU6DR3070959035-6LBDP1H  
Description: 6 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10153.8 lumens  
Efficiency: N/A  
Efficacy: 115.8 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

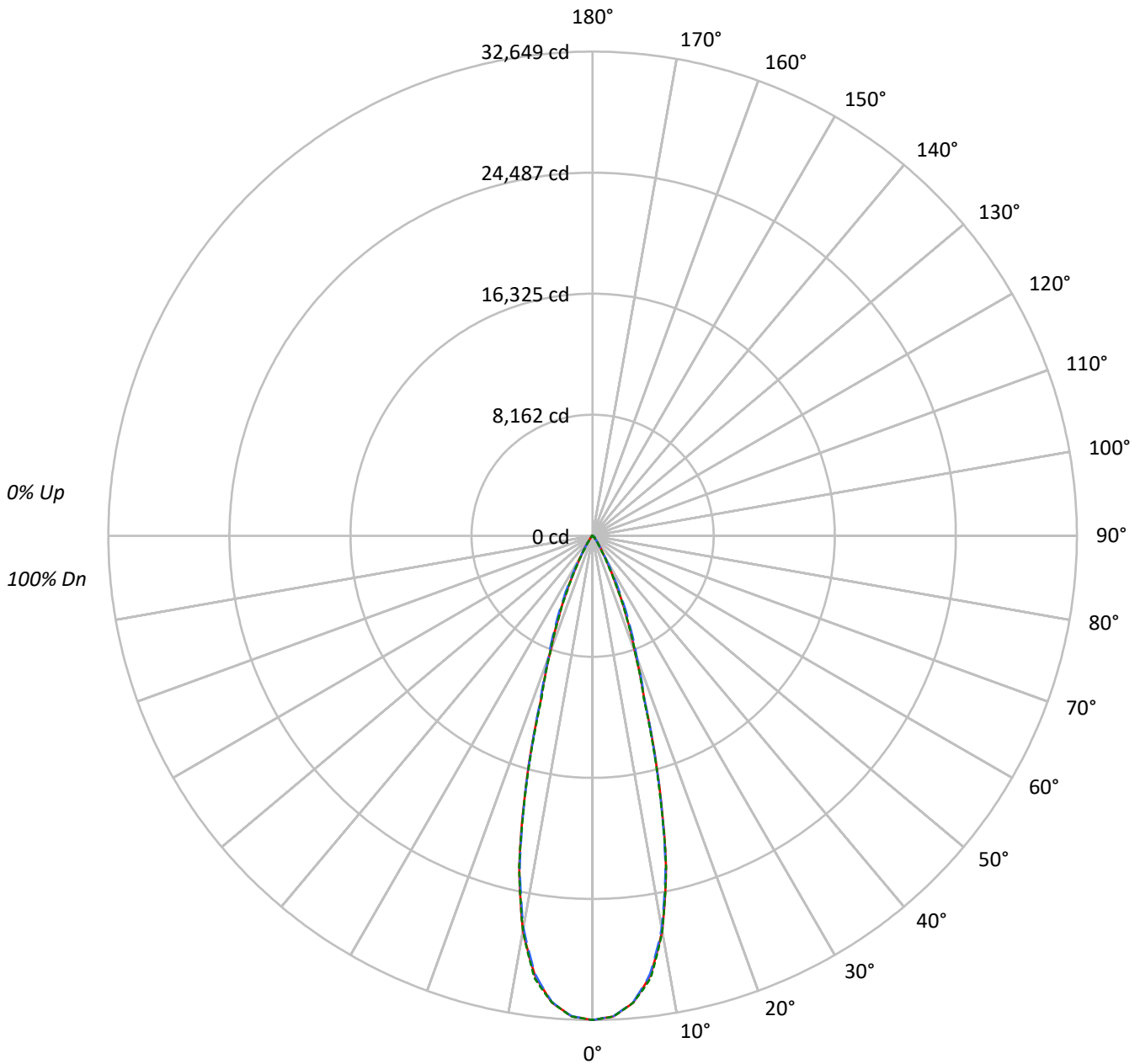


Downlight

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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°	2499096	2499096	2499096
5°	2427350	2424522	2427473
10°	2102455	2087633	2101958
15°	1371746	1364384	1357521
20°	682103	707696	681190
25°	343602	387460	336558
30°	137571	149892	119858
35°	63812	61111	51225
40°	27548	30596	25949
45°	19431	24118	19604
50°	6680	17564	7061
55°	3857	7273	4070
60°	2694	3184	2694
65°	1739	1739	1739
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: 24118 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2871.0	28.3
10°-20°	4623.8	45.5
20°-30°	1998.1	19.7
30°-40°	455.4	4.5
40°-50°	156.4	1.5
50°-60°	38.2	0.4
60°-70°	9.9	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°	9492.9	93.5
0°-40°	9948.3	98.0
0°-60°	10142.9	99.9
0°-90°	10153.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10153.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	32649	32649	32649	32649	32649	
5°	31591	31561	31555	31620	31593	2873
15°	17310	17102	17218	17162	17131	4635
25°	4068	4222	4588	4115	3985	1947
35°	683	697	654	649	548	463
45°	180	223	223	223	181	127
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	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	32649.4	32649.4	32649.4	32649.4	32649.4
2.5°	32433.0	32410.6	32423.4	32439.4	32445.8
5°	31591.4	31561.0	31554.6	31620.3	31593.0
7.5°	29893.9	29850.6	29784.9	29934.0	30073.4
10°	27050.2	27002.1	26859.5	26930.0	27043.8
12.5°	22852.0	22696.5	22693.3	22917.7	22887.3
15°	17310.5	17102.1	17217.6	17161.5	17131.0
17.5°	11640.8	11560.7	11714.5	11668.1	11467.7
20°	8373.9	8394.8	8688.1	8540.7	8362.7
22.5°	6110.5	6185.9	6533.7	6153.8	6014.4
25°	4068.4	4222.2	4587.7	4114.8	3985.0
27.5°	2502.2	2572.8	2943.1	2470.2	2399.7
30°	1556.5	1521.2	1695.9	1455.5	1356.1
32.5°	1021.1	976.2	1032.3	926.5	846.4
35°	682.9	697.3	654.0	649.2	548.2
37.5°	426.4	490.5	432.8	461.7	352.7
40°	275.7	355.9	306.2	338.2	259.7
42.5°	226.0	274.1	251.7	267.7	230.8
45°	179.5	222.8	222.8	222.8	181.1
47.5°	99.4	149.1	190.8	152.3	105.8
50°	56.1	75.3	147.5	78.5	59.3
52.5°	38.5	43.3	101.0	44.9	40.1
55°	28.9	30.5	54.5	32.1	30.5
57.5°	22.4	24.0	28.9	24.0	22.4
60°	17.6	17.6	20.8	19.2	17.6
62.5°	12.8	12.8	14.4	12.8	12.8
65°	9.6	9.6	9.6	9.6	9.6
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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