

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: P772655

Luminaire Tested: LD6D85BD010-EU6DR3070959035-6LBS1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P772655  
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-EU6DR3070959035-6LBS1B  
Description: 6 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10021.0 lumens  
Efficiency: N/A  
Efficacy: 114.3 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

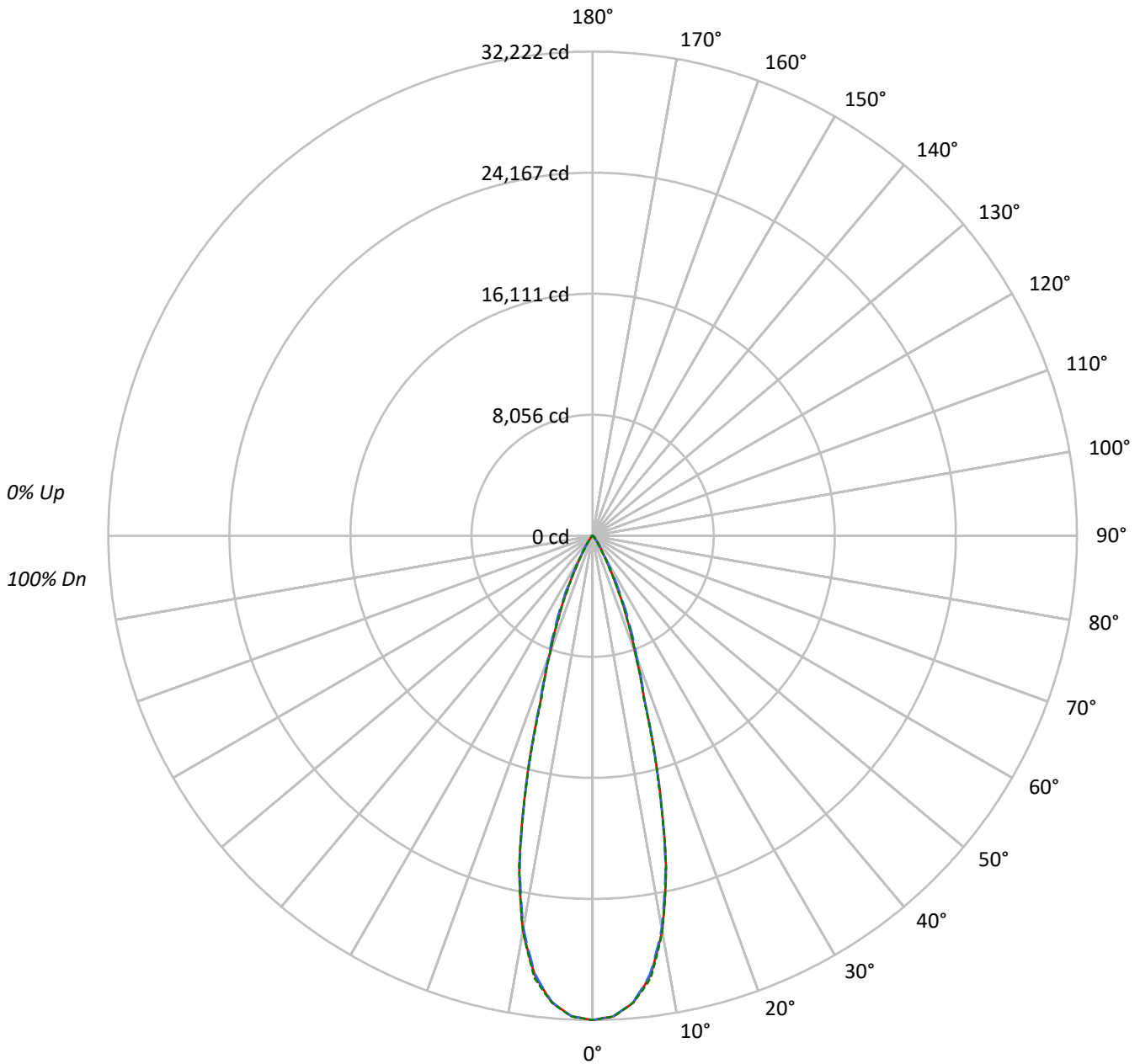


Downlight

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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°	2466420	2466420	2466420
5°	2395617	2392820	2395740
10°	2074964	2060336	2074474
15°	1353813	1346538	1339771
20°	673191	698443	672287
25°	339109	382393	332158
30°	135768	147938	118294
35°	62971	60317	50552
40°	27188	30196	25610
45°	19182	23804	19355
50°	6597	17326	6966
55°	3803	7180	4017
60°	2664	3154	2664
65°	1721	1721	1721
70°	1052	716	1052
75°	0	473	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 23804 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2833.5	28.3
10°-20°	4563.3	45.5
20°-30°	1971.9	19.7
30°-40°	449.4	4.5
40°-50°	154.3	1.5
50°-60°	37.7	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°	9368.8	93.5
0°-40°	9818.2	98.0
0°-60°	10010.2	99.9
0°-90°	10021.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10021.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	32222	32222	32222	32222	32222	
5°	31178	31148	31142	31207	31180	2836
15°	17084	16878	16992	16937	16907	4575
25°	4015	4167	4528	4061	3933	1922
35°	674	688	646	641	541	457
45°	177	220	220	220	179	126
55°	28	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°	32222.5	32222.5	32222.5	32222.5	32222.5
2.5°	32008.9	31986.8	31999.4	32015.3	32021.6
5°	31178.4	31148.3	31142.0	31206.9	31180.0
7.5°	29503.0	29460.3	29395.4	29542.6	29680.2
10°	26696.5	26649.1	26508.3	26577.9	26690.2
12.5°	22553.2	22399.8	22396.6	22618.1	22588.0
15°	17084.2	16878.5	16992.4	16937.1	16907.0
17.5°	11488.6	11409.5	11561.4	11515.5	11317.7
20°	8264.5	8285.0	8574.5	8429.0	8253.4
22.5°	6030.6	6105.0	6448.3	6073.4	5935.7
25°	4015.2	4167.0	4527.7	4061.0	3932.9
27.5°	2469.5	2539.1	2904.6	2437.9	2368.3
30°	1536.1	1501.3	1673.8	1436.5	1338.4
32.5°	1007.7	963.4	1018.8	914.4	835.3
35°	673.9	688.2	645.5	640.7	541.0
37.5°	420.8	484.1	427.1	455.6	348.0
40°	272.1	351.2	302.2	333.8	256.3
42.5°	223.1	270.5	248.4	264.2	227.8
45°	177.2	219.9	219.9	219.9	178.8
47.5°	98.1	147.1	188.3	150.3	104.4
50°	55.4	74.4	145.5	77.5	58.5
52.5°	38.0	42.7	99.7	44.3	39.6
55°	28.5	30.1	53.8	31.6	30.1
57.5°	22.1	23.7	28.5	23.7	22.1
60°	17.4	17.4	20.6	19.0	17.4
62.5°	12.7	12.7	14.2	12.7	12.7
65°	9.5	9.5	9.5	9.5	9.5
67.5°	4.7	6.3	6.3	6.3	6.3
70°	4.7	3.2	3.2	3.2	4.7
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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