

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: P754604

Luminaire Tested: LD4D85BD010-EU4DR3070959040-4LBS1B

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P754604  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/30/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D85BD010-EU4DR3070959040-4LBS1B  
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8259.5 lumens  
Efficiency: N/A  
Efficacy: 94.2 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): 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

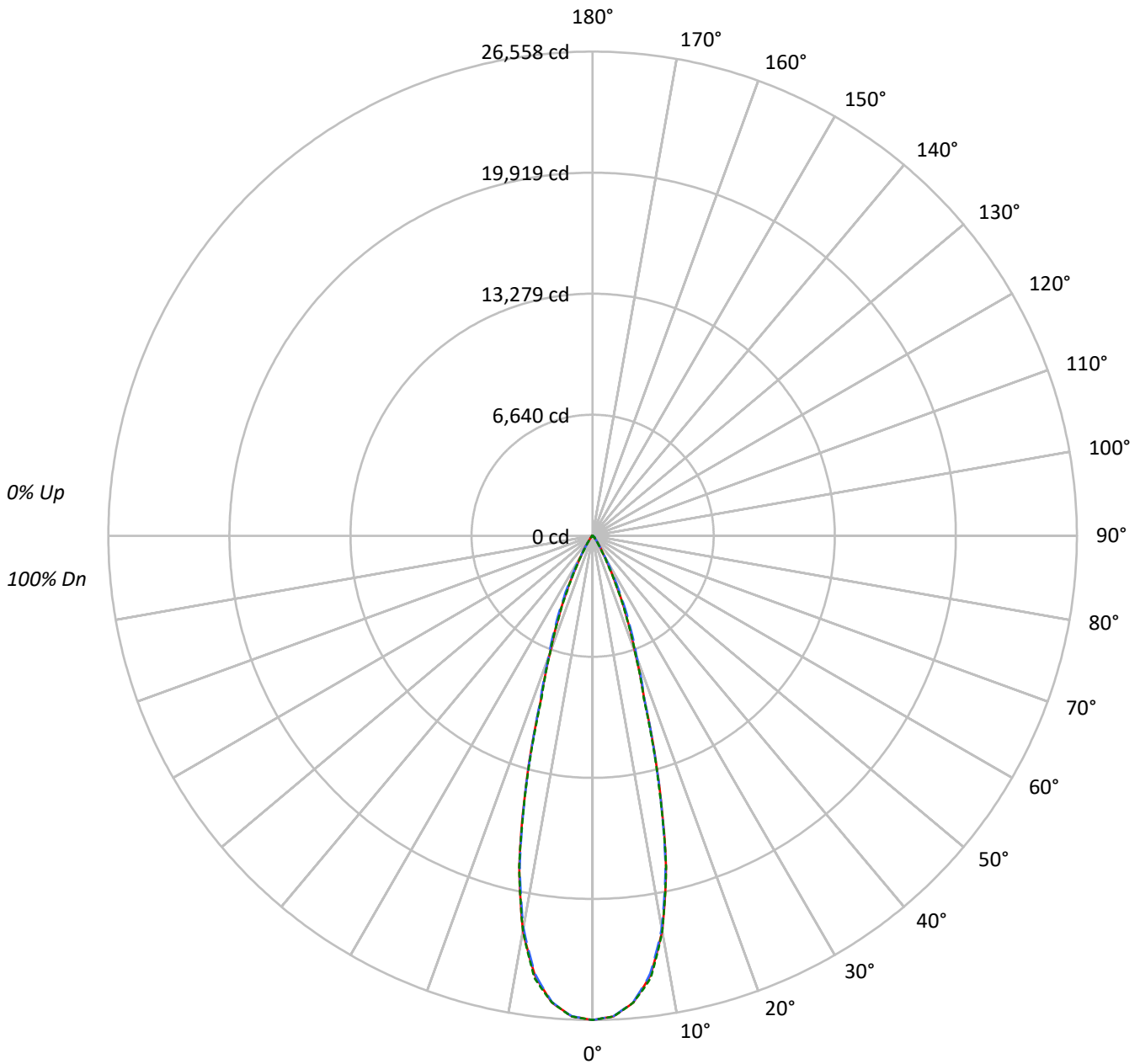


Downlight

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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°	2032862	2032862	2032862
5°	1974503	1972198	1974603
10°	1710220	1698157	1709808
15°	1115828	1109838	1104259
20°	554852	575664	554111
25°	279500	315174	273765
30°	111904	121927	97497
35°	51907	49711	41666
40°	22412	24880	21103
45°	15804	19615	15945
50°	5430	14290	5740
55°	3136	5912	3310
60°	2189	2602	2189
65°	1413	1413	1413
70°	873	582	873
75°	0	384	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 19615 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2335.4	28.3
10°-20°	3761.2	45.5
20°-30°	1625.3	19.7
30°-40°	370.4	4.5
40°-50°	127.2	1.5
50°-60°	31.1	0.4
60°-70°	8.0	0.1
70°-80°	0.8	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°	7721.9	93.5
0°-40°	8092.3	98.0
0°-60°	8250.6	99.9
0°-90°	8259.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8259.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	26558	26558	26558	26558	26558	
5°	25698	25673	25668	25721	25699	2337
15°	14081	13912	14005	13960	13935	3770
25°	3309	3434	3732	3347	3242	1584
35°	556	567	532	528	446	377
45°	146	181	181	181	147	104
55°	24	25	44	26	25	23
65°	8	8	8	8	8	8
75°	0	0	1	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°	26558.3	26558.3	26558.3	26558.3	26558.3
2.5°	26382.2	26364.0	26374.4	26387.4	26392.7
5°	25697.7	25672.9	25667.7	25721.1	25699.0
7.5°	24316.8	24281.6	24228.1	24349.4	24462.9
10°	22003.7	21964.5	21848.5	21905.9	21998.4
12.5°	18588.7	18462.2	18459.6	18642.2	18617.4
15°	14081.0	13911.5	14005.4	13959.8	13935.0
17.5°	9469.1	9403.9	9529.1	9491.2	9328.2
20°	6811.7	6828.6	7067.2	6947.3	6802.6
22.5°	4970.5	5031.8	5314.8	5005.8	4892.3
25°	3309.4	3434.5	3731.8	3347.2	3241.5
27.5°	2035.4	2092.8	2394.0	2009.3	1952.0
30°	1266.1	1237.4	1379.5	1184.0	1103.1
32.5°	830.6	794.1	839.7	753.7	688.5
35°	555.5	567.2	532.0	528.1	445.9
37.5°	346.8	399.0	352.1	375.5	286.9
40°	224.3	289.5	249.0	275.1	211.2
42.5°	183.9	223.0	204.7	217.8	187.8
45°	146.0	181.2	181.2	181.2	147.3
47.5°	80.8	121.3	155.2	123.9	86.1
50°	45.6	61.3	120.0	63.9	48.2
52.5°	31.3	35.2	82.1	36.5	32.6
55°	23.5	24.8	44.3	26.1	24.8
57.5°	18.3	19.6	23.5	19.6	18.3
60°	14.3	14.3	17.0	15.6	14.3
62.5°	10.4	10.4	11.7	10.4	10.4
65°	7.8	7.8	7.8	7.8	7.8
67.5°	3.9	5.2	5.2	5.2	5.2
70°	3.9	2.6	2.6	2.6	3.9
72.5°	2.6	1.3	1.3	1.3	1.3
75°	0.0	0.0	1.3	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)