

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: P754613

Luminaire Tested: LD4D85BD010-EU4DR3070959050-4LBDP1B

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P754613  
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-EU4DR3070959050-4LBDP1B  
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6785.9 lumens  
Efficiency: N/A  
Efficacy: 77.4 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

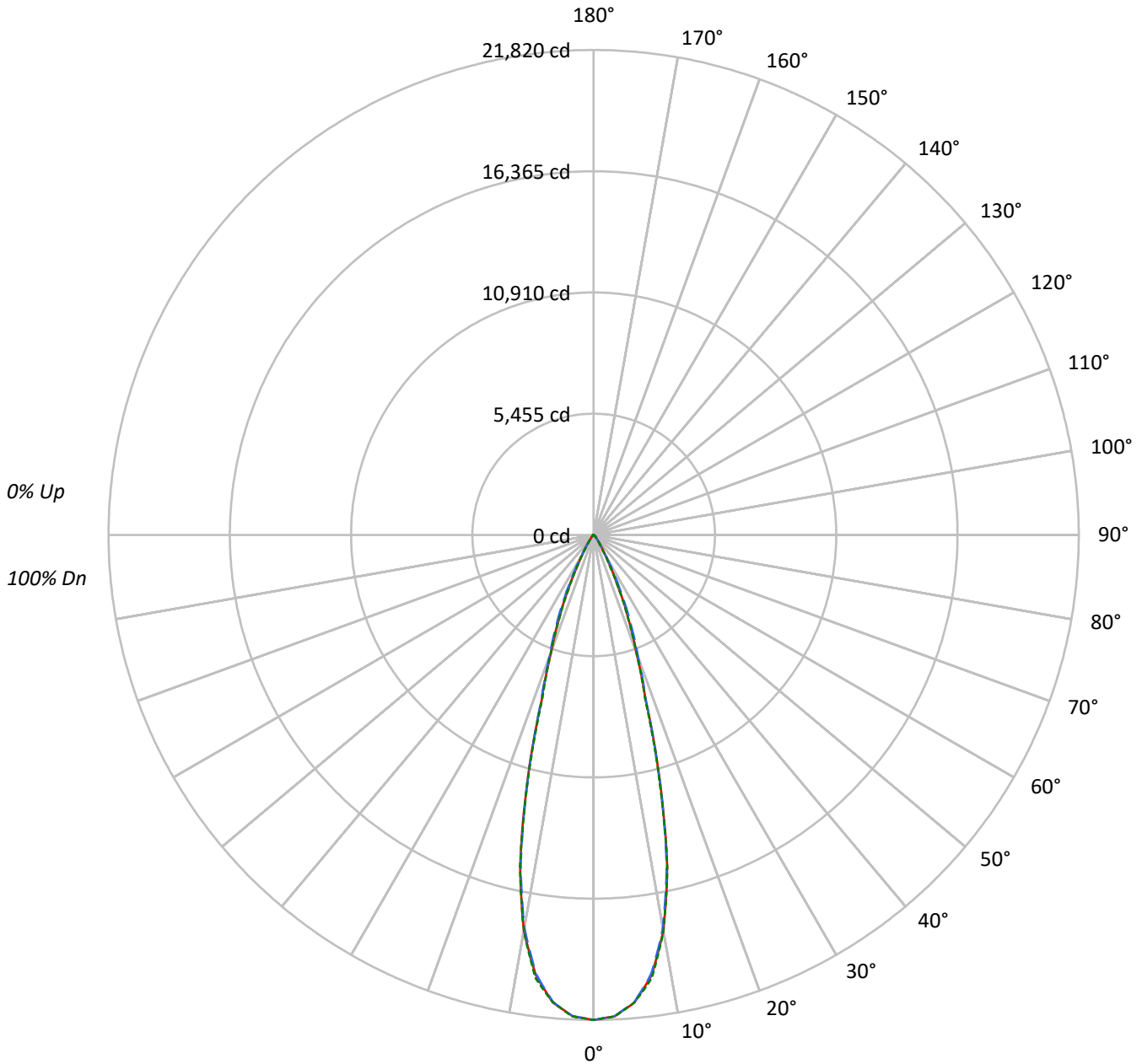
Input Watts (W): 87.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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°	1670169	1670169	1670169
5°	1622218	1620328	1622303
10°	1405090	1395181	1404756
15°	916753	911824	907244
20°	455859	472965	455248
25°	229628	258943	224924
30°	91938	100175	80103
35°	42647	40844	34237
40°	18415	20444	17336
45°	12990	16118	13109
50°	4466	11741	4716
55°	2576	4858	2722
60°	1806	2128	1806
65°	1159	1159	1159
70°	716	470	716
75°	0	325	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 16118 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1918.7	28.3
10°-20°	3090.1	45.5
20°-30°	1335.3	19.7
30°-40°	304.3	4.5
40°-50°	104.5	1.5
50°-60°	25.5	0.4
60°-70°	6.6	0.1
70°-80°	0.7	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°	6344.2	93.5
0°-40°	6648.5	98.0
0°-60°	6778.6	99.9
0°-90°	6785.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6785.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	21820	21820	21820	21820	21820	
5°	21113	21092	21088	21132	21114	1920
15°	11569	11430	11507	11469	11449	3098
25°	2719	2822	3066	2750	2663	1301
35°	456	466	437	434	366	310
45°	120	149	149	149	121	85
55°	19	20	36	21	20	19
65°	6	6	6	6	6	6
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°	21819.9	21819.9	21819.9	21819.9	21819.9
2.5°	21675.3	21660.3	21668.8	21679.5	21683.8
5°	21112.8	21092.5	21088.2	21132.1	21113.9
7.5°	19978.3	19949.4	19905.5	20005.1	20098.3
10°	18077.9	18045.8	17950.4	17997.5	18073.6
12.5°	15272.2	15168.3	15166.1	15316.1	15295.8
15°	11568.8	11429.5	11506.6	11469.1	11448.8
17.5°	7779.7	7726.1	7828.9	7797.9	7664.0
20°	5596.4	5610.3	5806.4	5707.8	5588.9
22.5°	4083.7	4134.1	4366.5	4112.7	4019.5
25°	2718.9	2821.8	3066.0	2750.0	2663.2
27.5°	1672.3	1719.4	1966.9	1650.8	1603.7
30°	1040.2	1016.6	1133.4	972.7	906.3
32.5°	682.4	652.4	689.9	619.2	565.6
35°	456.4	466.0	437.1	433.9	366.4
37.5°	285.0	327.8	289.2	308.5	235.7
40°	184.3	237.8	204.6	226.0	173.5
42.5°	151.1	183.2	168.2	178.9	154.3
45°	120.0	148.9	148.9	148.9	121.1
47.5°	66.4	99.6	127.5	101.8	70.7
50°	37.5	50.4	98.6	52.5	39.6
52.5°	25.7	28.9	67.5	30.0	26.8
55°	19.3	20.4	36.4	21.4	20.4
57.5°	15.0	16.1	19.3	16.1	15.0
60°	11.8	11.8	13.9	12.9	11.8
62.5°	8.6	8.6	9.6	8.6	8.6
65°	6.4	6.4	6.4	6.4	6.4
67.5°	3.2	4.3	4.3	4.3	4.3
70°	3.2	2.1	2.1	2.1	3.2
72.5°	2.1	1.1	1.1	1.1	1.1
75°	0.0	0.0	1.1	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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