

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: P754617

Luminaire Tested: LD4D85BD010-EU4DR3070959050-4LBS1B

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P754617  
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-EU4DR3070959050-4LBS1B  
Description: 4 INCH ROUND SHALLOW 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: 8318.5 lumens  
Efficiency: N/A  
Efficacy: 94.9 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

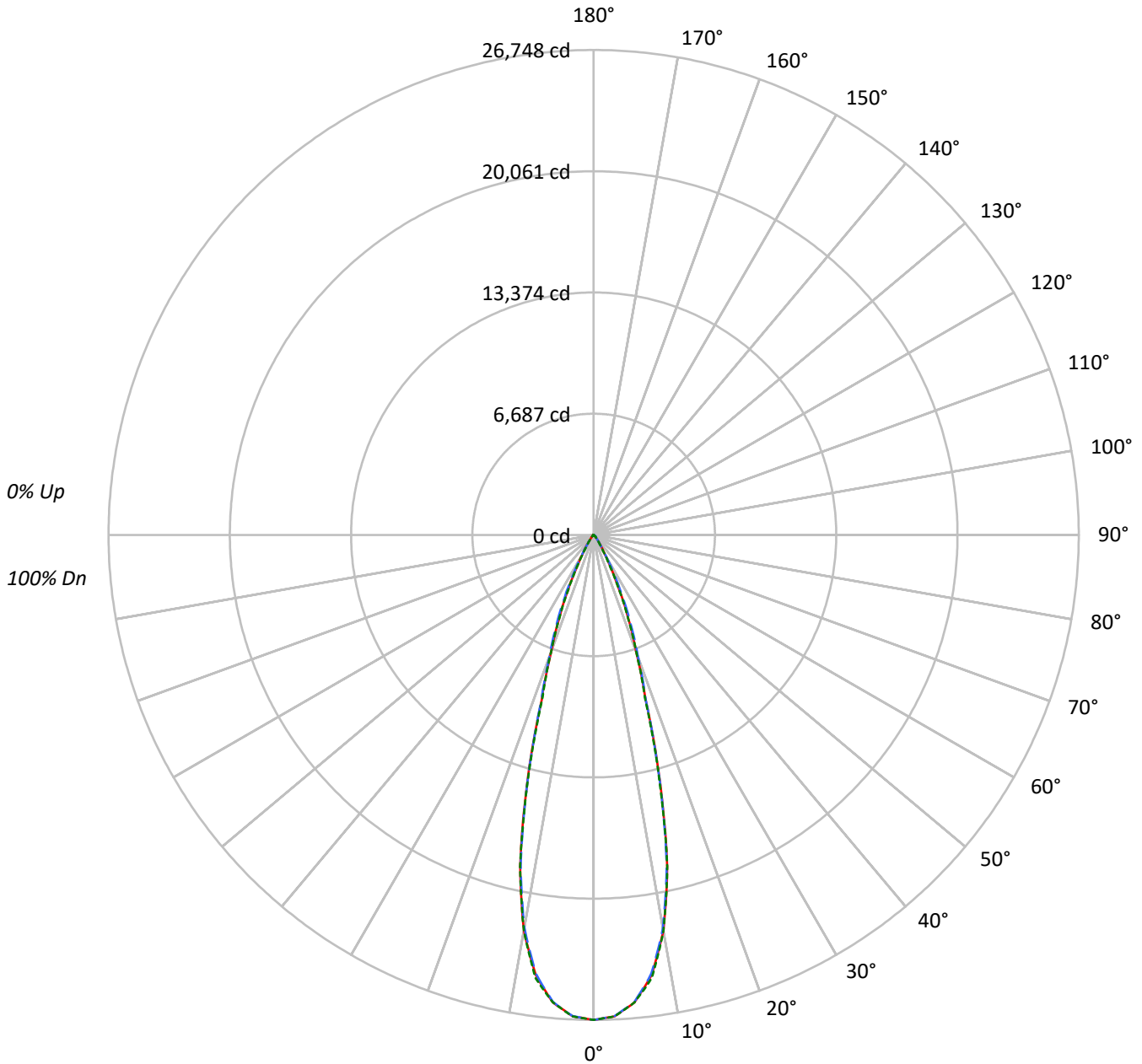
Input Watts (W): 87.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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°	2047383	2047383	2047383
5°	1988602	1986282	1988702
10°	1722430	1710290	1722026
15°	1123800	1117762	1112144
20°	558811	579778	558062
25°	281493	317429	275724
30°	112708	122802	98195
35°	52272	50066	41965
40°	22572	25060	21253
45°	15923	19755	16064
50°	5478	14385	5787
55°	3149	5952	3336
60°	2204	2618	2204
65°	1431	1431	1431
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: 19755 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2352.1	28.3
10°-20°	3788.0	45.5
20°-30°	1636.9	19.7
30°-40°	373.1	4.5
40°-50°	128.1	1.5
50°-60°	31.3	0.4
60°-70°	8.1	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°	7777.0	93.5
0°-40°	8150.1	98.0
0°-60°	8309.5	99.9
0°-90°	8318.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8318.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	26748	26748	26748	26748	26748	
5°	25881	25856	25851	25905	25882	2354
15°	14182	14011	14105	14060	14034	3797
25°	3333	3459	3758	3371	3265	1595
35°	559	571	536	532	449	379
45°	147	182	182	182	148	104
55°	24	25	45	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°	26748.0	26748.0	26748.0	26748.0	26748.0
2.5°	26570.7	26552.3	26562.8	26575.9	26581.2
5°	25881.2	25856.3	25851.0	25904.9	25882.5
7.5°	24490.5	24455.0	24401.2	24523.3	24637.6
10°	22160.8	22121.4	22004.6	22062.3	22155.6
12.5°	18721.5	18594.1	18591.5	18775.3	18750.4
15°	14181.6	14010.9	14105.4	14059.5	14034.5
17.5°	9536.7	9471.0	9597.1	9559.0	9394.9
20°	6860.3	6877.4	7117.7	6996.9	6851.1
22.5°	5006.0	5067.8	5352.7	5041.5	4927.3
25°	3333.0	3459.1	3758.5	3371.1	3264.7
27.5°	2050.0	2107.7	2411.1	2023.7	1965.9
30°	1275.2	1246.3	1389.4	1192.4	1111.0
32.5°	836.5	799.8	845.7	759.0	693.4
35°	559.4	571.3	535.8	531.9	449.1
37.5°	349.3	401.8	354.6	378.2	288.9
40°	225.9	291.5	250.8	277.1	212.7
42.5°	185.2	224.6	206.2	219.3	189.1
45°	147.1	182.5	182.5	182.5	148.4
47.5°	81.4	122.1	156.3	124.8	86.7
50°	46.0	61.7	120.8	64.3	48.6
52.5°	31.5	35.5	82.7	36.8	32.8
55°	23.6	25.0	44.6	26.3	25.0
57.5°	18.4	19.7	23.6	19.7	18.4
60°	14.4	14.4	17.1	15.8	14.4
62.5°	10.5	10.5	11.8	10.5	10.5
65°	7.9	7.9	7.9	7.9	7.9
67.5°	3.9	5.3	5.3	5.3	5.3
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)