

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: P754554

Luminaire Tested: LD4D85BD010-EU4DR3070959024-4LBS1LI

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P754554  
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-EU4DR3070959024-4LBS1LI  
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7493.2 lumens  
Efficiency: N/A  
Efficacy: 85.4 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

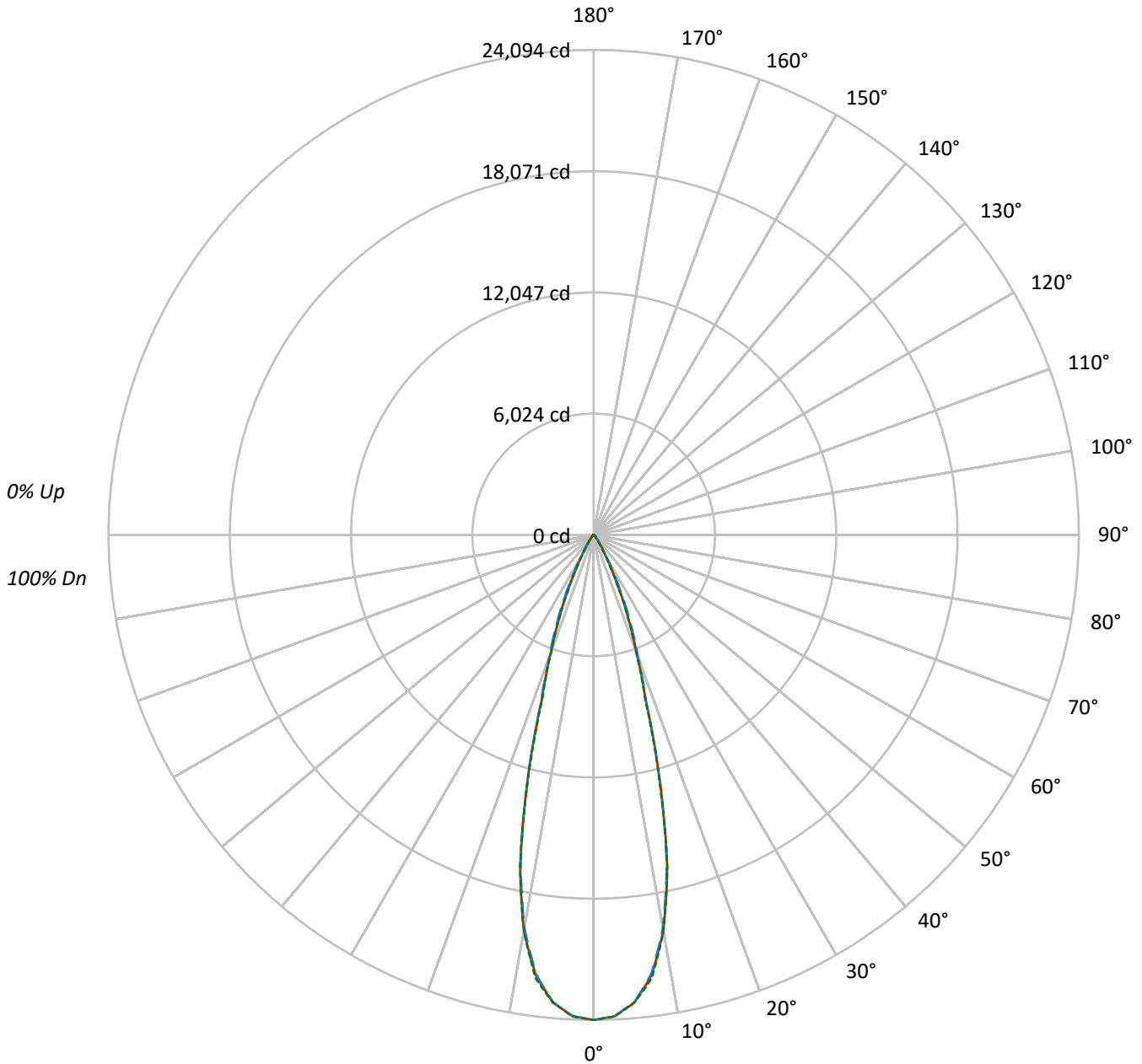
Input Watts (W): 87.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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°	1844244	1844244	1844244
5°	1791303	1789213	1791395
10°	1551538	1540595	1551173
15°	1012305	1006869	1001805
20°	503372	522254	502696
25°	253563	285935	248369
30°	101519	110622	88455
35°	47086	45095	37807
40°	20334	22572	19145
45°	14343	17796	14473
50°	4930	12956	5216
55°	2842	5365	3003
60°	1990	2358	1990
65°	1286	1286	1286
70°	783	537	783
75°	0	355	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 17796 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2118.7	28.3
10°-20°	3412.2	45.5
20°-30°	1474.5	19.7
30°-40°	336.1	4.5
40°-50°	115.4	1.5
50°-60°	28.2	0.4
60°-70°	7.3	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°	7005.4	93.5
0°-40°	7341.5	98.0
0°-60°	7485.1	99.9
0°-90°	7493.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7493.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	24094	24094	24094	24094	24094	
5°	23313	23291	23286	23335	23315	2120
15°	12775	12621	12706	12665	12642	3421
25°	3002	3116	3386	3037	2941	1437
35°	504	515	483	479	405	342
45°	132	164	164	164	134	94
55°	21	22	40	24	22	21
65°	7	7	7	7	7	7
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°	24094.1	24094.1	24094.1	24094.1	24094.1
2.5°	23934.4	23917.9	23927.3	23939.2	23943.9
5°	23313.4	23290.9	23286.2	23334.7	23314.6
7.5°	22060.6	22028.7	21980.2	22090.2	22193.1
10°	19962.1	19926.6	19821.3	19873.4	19957.4
12.5°	16864.0	16749.2	16746.9	16912.5	16890.0
15°	12774.6	12620.8	12706.0	12664.6	12642.1
17.5°	8590.5	8531.4	8644.9	8610.6	8462.8
20°	6179.7	6195.1	6411.5	6302.7	6171.4
22.5°	4509.4	4565.0	4821.7	4541.3	4438.4
25°	3002.3	3115.9	3385.6	3036.6	2940.8
27.5°	1846.6	1898.6	2171.9	1822.9	1770.9
30°	1148.6	1122.6	1251.6	1074.1	1000.8
32.5°	753.5	720.4	761.8	683.7	624.6
35°	503.9	514.6	482.6	479.1	404.6
37.5°	314.7	362.0	319.4	340.7	260.2
40°	203.5	262.6	225.9	249.6	191.6
42.5°	166.8	202.3	185.7	197.6	170.3
45°	132.5	164.4	164.4	164.4	133.7
47.5°	73.3	110.0	140.8	112.4	78.1
50°	41.4	55.6	108.8	58.0	43.8
52.5°	28.4	31.9	74.5	33.1	29.6
55°	21.3	22.5	40.2	23.7	22.5
57.5°	16.6	17.7	21.3	17.7	16.6
60°	13.0	13.0	15.4	14.2	13.0
62.5°	9.5	9.5	10.6	9.5	9.5
65°	7.1	7.1	7.1	7.1	7.1
67.5°	3.5	4.7	4.7	4.7	4.7
70°	3.5	2.4	2.4	2.4	3.5
72.5°	2.4	1.2	1.2	1.2	1.2
75°	0.0	0.0	1.2	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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