

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: P752216

Luminaire Tested: LD4D70BD010-EU4DR3070959024-4LBSQW1B

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P752216  
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: LD4D70BD010-EU4DR3070959024-4LBSQW1B  
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

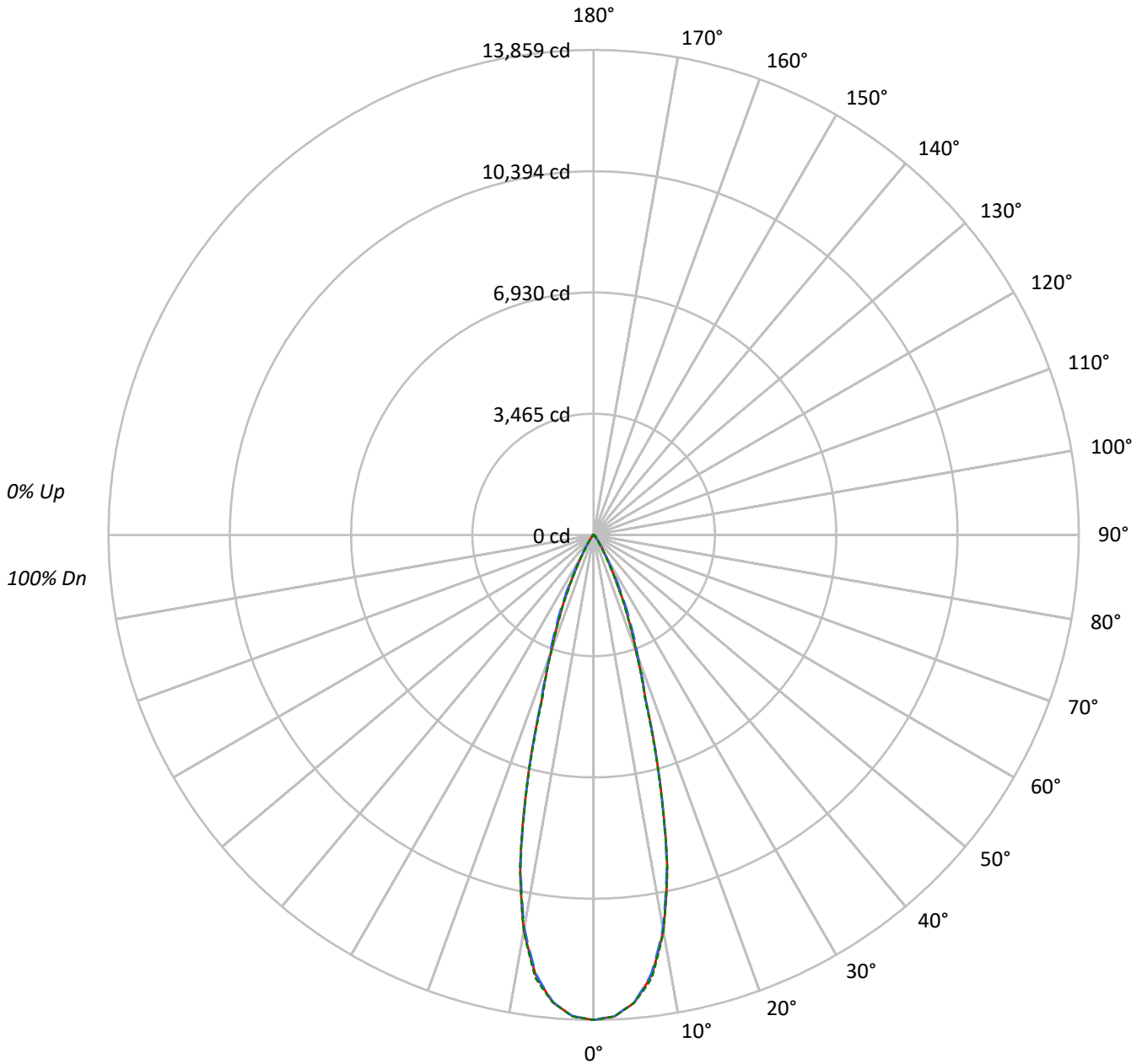
Lumens per Lamp: N/A  
Luminaire Lumens: 4310.1 lumens  
Efficiency: N/A  
Efficacy: 64.7 lumens/watt  
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49  
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')  
CIE Type: Direct

Input Watts (W): 66.6  
Input Voltage (V): NR  
Input Current (Ain): 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



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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	50	30	10	0													
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						100													
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96						96													
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92						92													
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89						89													
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85						85													
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82						82													
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79						79													
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77						77													
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74						74													
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72						72													
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69						69													

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1060830	1060830	1060830
5°	1030375	1029169	1030422
10°	892460	886165	892251
15°	582282	579159	576243
20°	289543	300409	289152
25°	145856	164470	142866
30°	58396	63628	50883
35°	27089	25940	21744
40°	11691	12990	11011
45°	8249	10240	8324
50°	2834	7454	3001
55°	1628	3083	1721
60°	1148	1347	1148
65°	743	743	743
70°	448	313	448
75°	0	207	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 10240 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1218.7	28.3
10°-20°	1962.7	45.5
20°-30°	848.2	19.7
30°-40°	193.3	4.5
40°-50°	66.4	1.5
50°-60°	16.2	0.4
60°-70°	4.2	0.1
70°-80°	0.5	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°	4029.6	93.5
0°-40°	4222.9	98.0
0°-60°	4305.5	99.9
0°-90°	4310.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4310.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	13859	13859	13859	13859	13859	
5°	13410	13397	13394	13422	13411	1220
15°	7348	7260	7309	7285	7272	1968
25°	1727	1792	1947	1747	1692	827
35°	290	296	278	276	233	197
45°	76	95	95	95	77	54
55°	12	13	23	14	13	12
65°	4	4	4	4	4	4
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°	13859.2	13859.2	13859.2	13859.2	13859.2
2.5°	13767.3	13757.8	13763.2	13770.0	13772.7
5°	13410.1	13397.1	13394.4	13422.3	13410.7
7.5°	12689.5	12671.1	12643.2	12706.5	12765.7
10°	11482.4	11462.0	11401.4	11431.4	11479.7
12.5°	9700.3	9634.3	9633.0	9728.2	9715.3
15°	7348.0	7259.6	7308.6	7284.8	7271.8
17.5°	4941.3	4907.3	4972.6	4952.9	4867.9
20°	3554.6	3563.5	3688.0	3625.4	3549.8
22.5°	2593.8	2625.8	2773.5	2612.2	2553.0
25°	1727.0	1792.3	1947.4	1746.7	1691.6
27.5°	1062.2	1092.1	1249.3	1048.6	1018.6
30°	660.7	645.7	719.9	617.8	575.7
32.5°	433.4	414.4	438.2	393.3	359.3
35°	289.9	296.0	277.6	275.6	232.7
37.5°	181.0	208.2	183.7	196.0	149.7
40°	117.0	151.1	130.0	143.6	110.2
42.5°	95.9	116.4	106.8	113.6	98.0
45°	76.2	94.6	94.6	94.6	76.9
47.5°	42.2	63.3	81.0	64.6	44.9
50°	23.8	32.0	62.6	33.3	25.2
52.5°	16.3	18.4	42.9	19.1	17.0
55°	12.2	12.9	23.1	13.6	12.9
57.5°	9.5	10.2	12.2	10.2	9.5
60°	7.5	7.5	8.8	8.2	7.5
62.5°	5.4	5.4	6.1	5.4	5.4
65°	4.1	4.1	4.1	4.1	4.1
67.5°	2.0	2.7	2.7	2.7	2.7
70°	2.0	1.4	1.4	1.4	2.0
72.5°	1.4	0.7	0.7	0.7	0.7
75°	0.0	0.0	0.7	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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