

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: P752268

Luminaire Tested: LD4D70BD010-EU4DR3070959040-4LBSQW1B

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P752268  
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-EU4DR3070959040-4LBSQW1B  
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

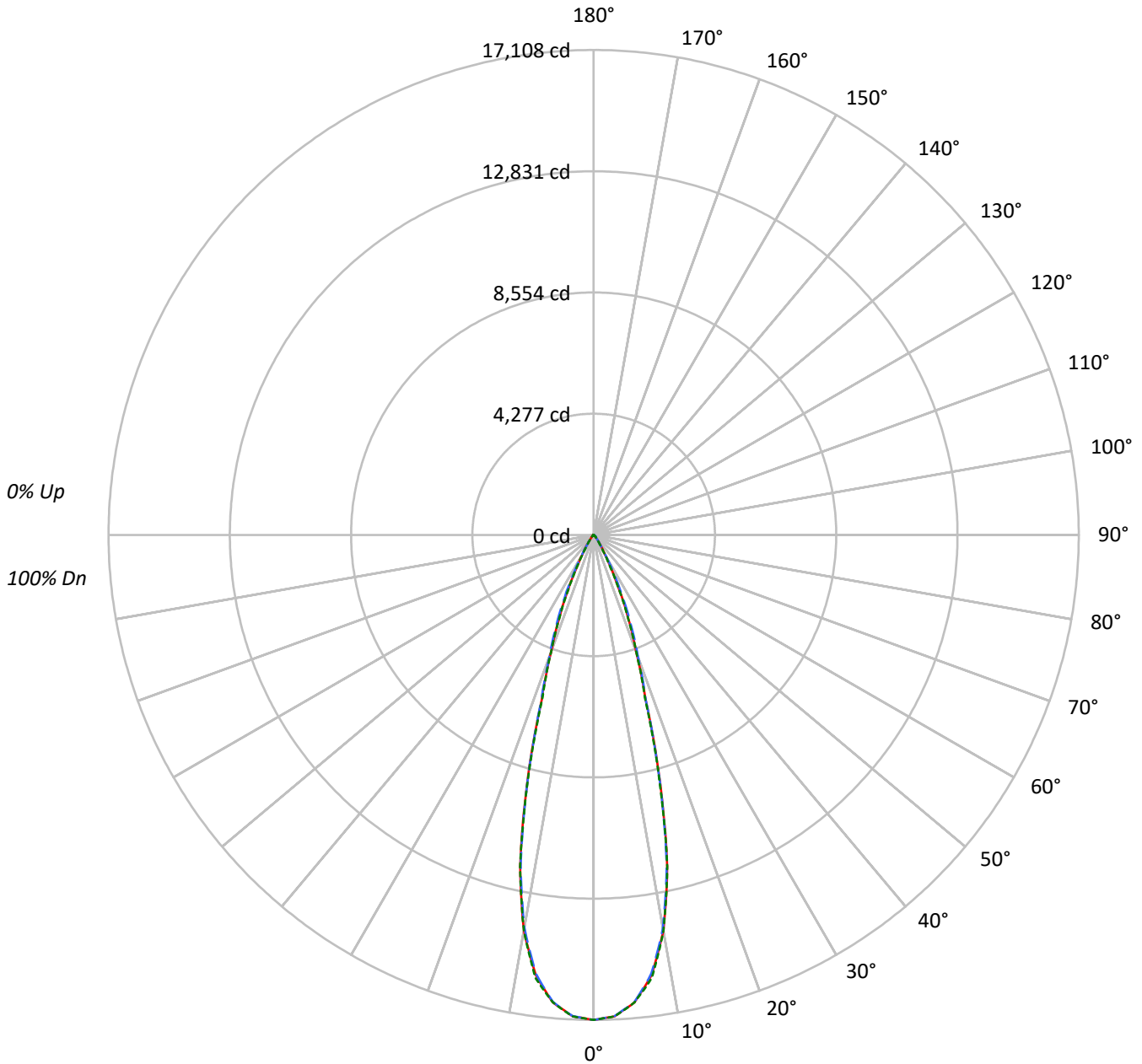
Lumens per Lamp: N/A  
Luminaire Lumens: 5320.6 lumens  
Efficiency: N/A  
Efficacy: 79.9 lumens/watt  
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49  
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')  
CIE Type: Direct

Input Watts (W): 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	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°	1309527	1309527	1309527
5°	1271932	1270449	1272001
10°	1101686	1093921	1101430
15°	718795	714935	711338
20°	357420	370836	356947
25°	180044	203033	176353
30°	72087	78547	62806
35°	33434	32023	26846
40°	14438	16027	13599
45°	10186	12643	10273
50°	3501	9205	3703
55°	2015	3817	2135
60°	1408	1669	1408
65°	906	906	906
70°	559	380	559
75°	0	237	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 12643 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1504.4	28.3
10°-20°	2422.9	45.5
20°-30°	1047.0	19.7
30°-40°	238.6	4.5
40°-50°	81.9	1.5
50°-60°	20.0	0.4
60°-70°	5.2	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°	4974.3	93.5
0°-40°	5212.9	98.0
0°-60°	5314.9	99.9
0°-90°	5320.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5320.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	17108	17108	17108	17108	17108	
5°	16554	16538	16535	16569	16555	1506
15°	9071	8962	9022	8993	8977	2429
25°	2132	2212	2404	2156	2088	1020
35°	358	365	343	340	287	243
45°	94	117	117	117	95	67
55°	15	16	29	17	16	15
65°	5	5	5	5	5	5
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°	17108.3	17108.3	17108.3	17108.3	17108.3
2.5°	16994.9	16983.1	16989.9	16998.3	17001.6
5°	16553.9	16538.0	16534.6	16569.0	16554.8
7.5°	15664.4	15641.7	15607.3	15685.4	15758.5
10°	14174.3	14149.1	14074.4	14111.3	14171.0
12.5°	11974.5	11893.0	11891.3	12008.9	11992.9
15°	9070.7	8961.5	9022.0	8992.6	8976.6
17.5°	6099.8	6057.8	6138.4	6114.1	6009.1
20°	4387.9	4398.9	4552.6	4475.3	4382.1
22.5°	3201.9	3241.4	3423.7	3224.6	3151.5
25°	2131.8	2212.5	2404.0	2156.2	2088.1
27.5°	1311.2	1348.1	1542.2	1294.4	1257.4
30°	815.6	797.1	888.7	762.7	710.6
32.5°	535.1	511.5	540.9	485.5	443.5
35°	357.8	365.4	342.7	340.2	287.3
37.5°	223.4	257.0	226.8	241.9	184.8
40°	144.5	186.5	160.4	177.2	136.1
42.5°	118.4	143.6	131.9	140.3	121.0
45°	94.1	116.8	116.8	116.8	94.9
47.5°	52.1	78.1	100.0	79.8	55.4
50°	29.4	39.5	77.3	41.2	31.1
52.5°	20.2	22.7	52.9	23.5	21.0
55°	15.1	16.0	28.6	16.8	16.0
57.5°	11.8	12.6	15.1	12.6	11.8
60°	9.2	9.2	10.9	10.1	9.2
62.5°	6.7	6.7	7.6	6.7	6.7
65°	5.0	5.0	5.0	5.0	5.0
67.5°	2.5	3.4	3.4	3.4	3.4
70°	2.5	1.7	1.7	1.7	2.5
72.5°	1.7	0.8	0.8	0.8	0.8
75°	0.0	0.0	0.8	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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