

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: P752231

Luminaire Tested: LD4D70BD010-EU4DR3070959030-4LBCSSQMB

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P752231  
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-EU4DR3070959030-4LBCSSQMB  
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6048.7 lumens  
Efficiency: N/A  
Efficacy: 90.8 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

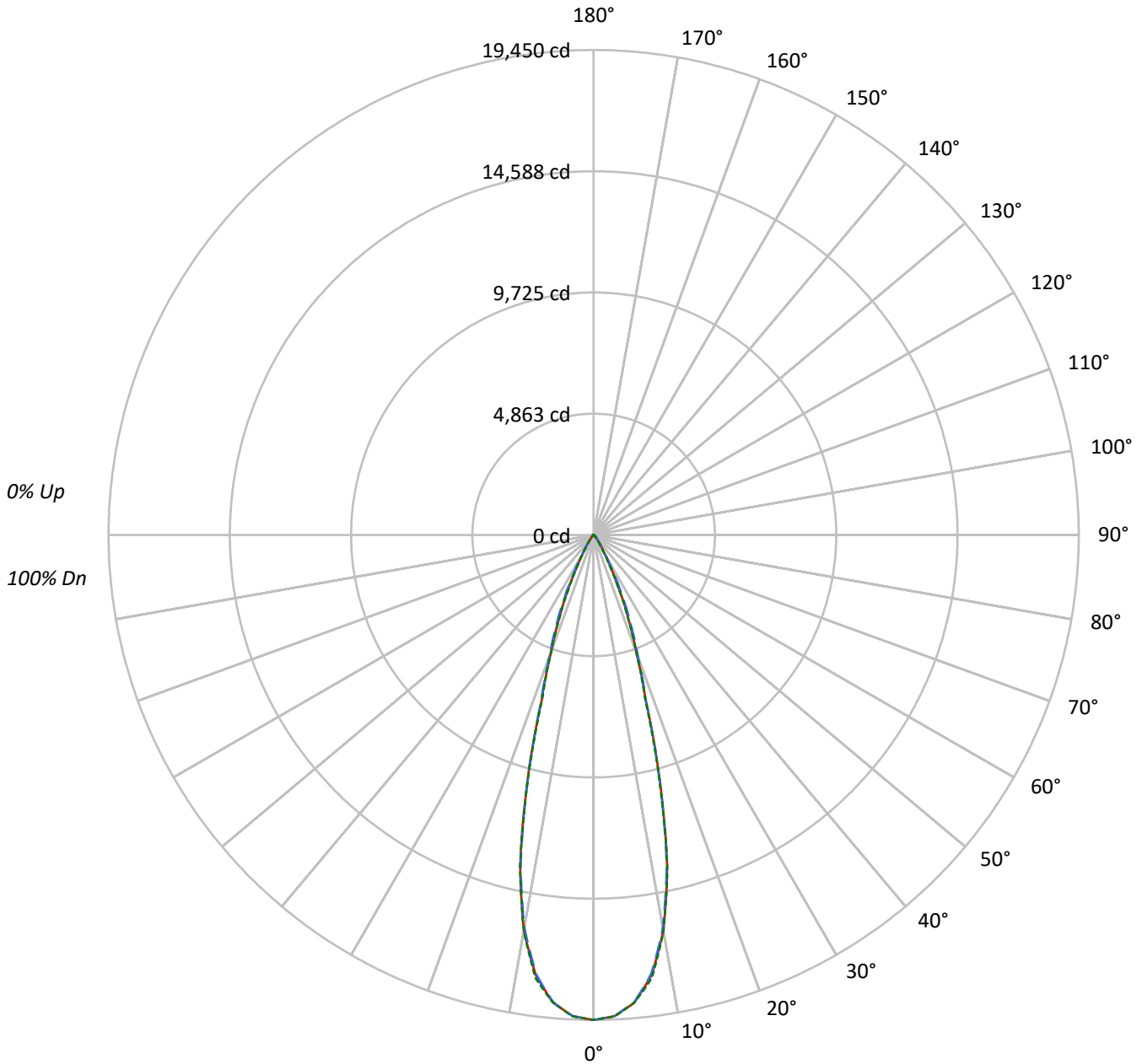
Input Watts (W): 66.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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°	1488738	1488738	1488738
5°	1446003	1444313	1446072
10°	1252456	1243626	1252160
15°	817167	812777	808688
20°	406334	421583	405796
25°	204688	230819	200491
30°	81950	89295	71406
35°	38012	36405	30518
40°	16407	18225	15458
45°	11572	14365	11680
50°	3977	10467	4204
55°	2295	4337	2415
60°	1607	1898	1607
65°	1032	1032	1032
70°	649	425	649
75°	0	296	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 14365 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1710.3	28.3
10°-20°	2754.5	45.5
20°-30°	1190.3	19.7
30°-40°	271.3	4.5
40°-50°	93.1	1.5
50°-60°	22.8	0.4
60°-70°	5.9	0.1
70°-80°	0.6	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°	5655.0	93.5
0°-40°	5926.3	98.0
0°-60°	6042.2	99.9
0°-90°	6048.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6048.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	19450	19450	19450	19450	19450	
5°	18819	18801	18797	18836	18820	1712
15°	10312	10188	10257	10223	10205	2761
25°	2424	2515	2733	2451	2374	1160
35°	407	415	390	387	327	276
45°	107	133	133	133	108	76
55°	17	18	32	19	18	17
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°	19449.6	19449.6	19449.6	19449.6	19449.6
2.5°	19320.7	19307.3	19315.0	19324.5	19328.3
5°	18819.4	18801.2	18797.4	18836.5	18820.3
7.5°	17808.1	17782.3	17743.2	17832.0	17915.1
10°	16114.1	16085.4	16000.5	16042.5	16110.3
12.5°	13613.2	13520.6	13518.7	13652.3	13634.2
15°	10312.1	10187.9	10256.7	10223.3	10205.1
17.5°	6934.6	6886.8	6978.5	6950.8	6831.4
20°	4988.4	5000.9	5175.6	5087.8	4981.8
22.5°	3640.1	3685.0	3892.2	3665.9	3582.8
25°	2423.6	2515.2	2733.0	2451.3	2373.9
27.5°	1490.6	1532.6	1753.2	1471.5	1429.5
30°	927.2	906.2	1010.3	867.1	807.9
32.5°	608.3	581.5	615.0	551.9	504.2
35°	406.8	415.4	389.6	386.7	326.6
37.5°	254.0	292.2	257.8	275.0	210.1
40°	164.2	212.0	182.4	201.5	154.7
42.5°	134.6	163.3	149.9	159.5	137.5
45°	106.9	132.7	132.7	132.7	107.9
47.5°	59.2	88.8	113.6	90.7	63.0
50°	33.4	44.9	87.9	46.8	35.3
52.5°	22.9	25.8	60.2	26.7	23.9
55°	17.2	18.1	32.5	19.1	18.1
57.5°	13.4	14.3	17.2	14.3	13.4
60°	10.5	10.5	12.4	11.5	10.5
62.5°	7.6	7.6	8.6	7.6	7.6
65°	5.7	5.7	5.7	5.7	5.7
67.5°	2.9	3.8	3.8	3.8	3.8
70°	2.9	1.9	1.9	1.9	2.9
72.5°	1.9	1.0	1.0	1.0	1.0
75°	0.0	0.0	1.0	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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