

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: P752272

Luminaire Tested: LD4D70BD010-EU4DR3070959050-4LBCSSQMW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P752272  
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-EU4DR3070959050-4LBCSSQMW  
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6444.9 lumens  
Efficiency: N/A  
Efficacy: 96.8 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

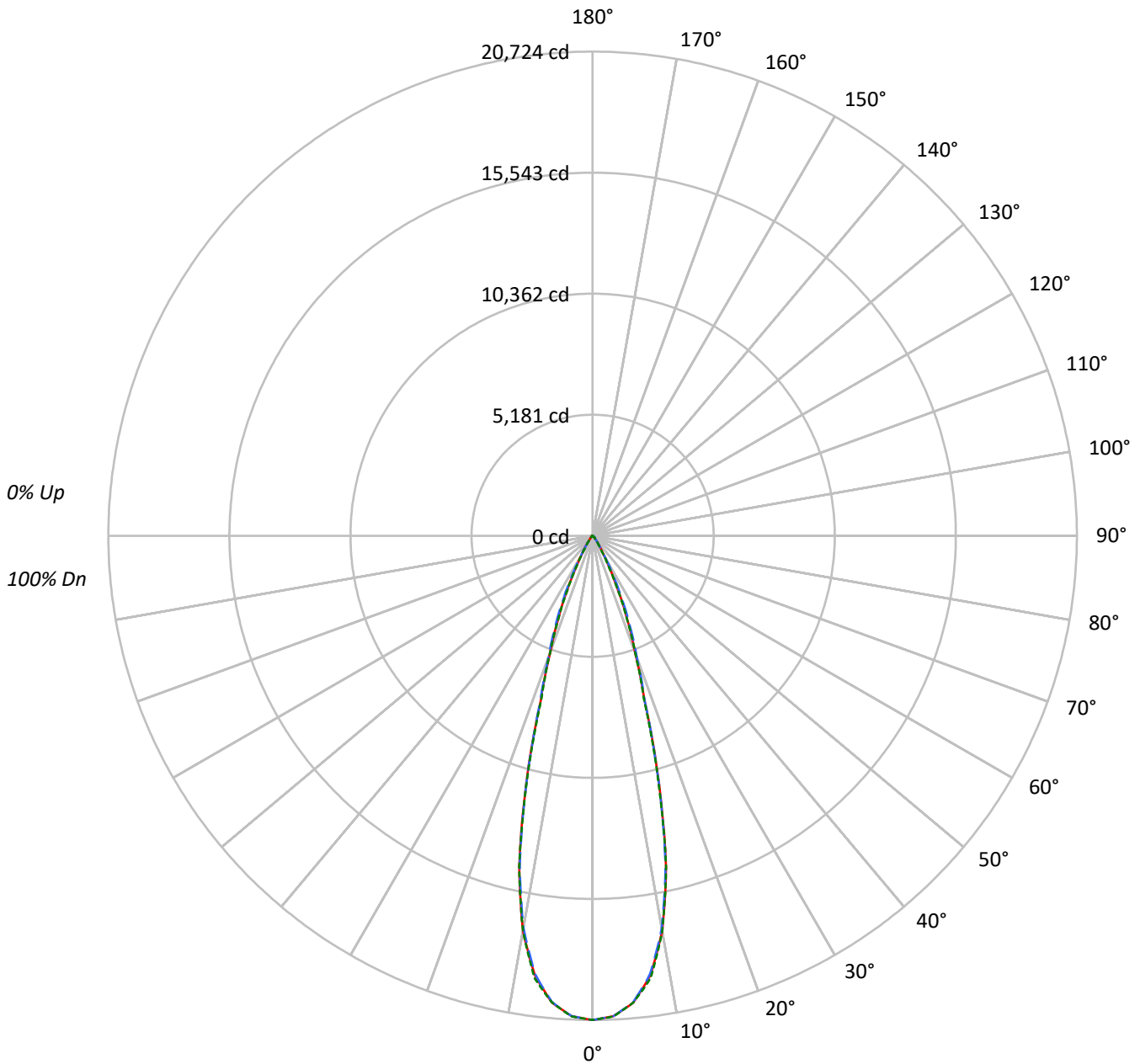
Input Watts (W): 66.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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°	1586255	1586255	1586255
5°	1540711	1538913	1540796
10°	1334493	1325081	1334175
15°	870689	866013	861663
20°	432954	449196	432375
25°	218091	245937	213624
30°	87324	95146	76082
35°	40498	38788	32518
40°	17486	19415	16467
45°	12340	15306	12449
50°	4239	11146	4477
55°	2442	4617	2576
60°	1715	2021	1715
65°	1105	1105	1105
70°	694	448	694
75°	0	296	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 15306 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1822.3	28.3
10°-20°	2934.9	45.5
20°-30°	1268.2	19.7
30°-40°	289.1	4.5
40°-50°	99.2	1.5
50°-60°	24.2	0.4
60°-70°	6.3	0.1
70°-80°	0.7	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°	6025.4	93.5
0°-40°	6314.5	98.0
0°-60°	6438.0	99.9
0°-90°	6444.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6444.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	20724	20724	20724	20724	20724	
5°	20052	20033	20029	20070	20053	1824
15°	10988	10855	10928	10893	10874	2942
25°	2582	2680	2912	2612	2529	1236
35°	433	443	415	412	348	294
45°	114	141	141	141	115	81
55°	18	19	35	20	19	18
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°	20723.6	20723.6	20723.6	20723.6	20723.6
2.5°	20586.2	20572.0	20580.1	20590.3	20594.3
5°	20052.0	20032.7	20028.6	20070.4	20053.1
7.5°	18974.6	18947.1	18905.4	19000.0	19088.5
10°	17169.6	17139.1	17048.5	17093.3	17165.5
12.5°	14504.9	14406.2	14404.1	14546.6	14527.3
15°	10987.5	10855.2	10928.5	10892.9	10873.6
17.5°	7388.8	7337.9	7435.6	7406.1	7278.9
20°	5315.2	5328.4	5514.6	5421.0	5308.1
22.5°	3878.5	3926.4	4147.2	3906.0	3817.5
25°	2582.3	2680.0	2912.0	2611.8	2529.4
27.5°	1588.3	1633.0	1868.1	1567.9	1523.1
30°	988.0	965.6	1076.5	923.9	860.8
32.5°	648.1	619.6	655.2	588.1	537.2
35°	433.4	442.6	415.1	412.1	348.0
37.5°	270.6	311.3	274.7	293.0	223.8
40°	175.0	225.9	194.3	214.7	164.8
42.5°	143.5	174.0	159.7	169.9	146.5
45°	114.0	141.4	141.4	141.4	115.0
47.5°	63.1	94.6	121.1	96.7	67.2
50°	35.6	47.8	93.6	49.9	37.6
52.5°	24.4	27.5	64.1	28.5	25.4
55°	18.3	19.3	34.6	20.3	19.3
57.5°	14.2	15.3	18.3	15.3	14.2
60°	11.2	11.2	13.2	12.2	11.2
62.5°	8.1	8.1	9.2	8.1	8.1
65°	6.1	6.1	6.1	6.1	6.1
67.5°	3.1	4.1	4.1	4.1	4.1
70°	3.1	2.0	2.0	2.0	3.1
72.5°	2.0	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

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Scaled Data Report



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Scaled Data Report







— 0°-180°    - - 45°-225°    - - - - 90°-270°

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