

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: P753806

Luminaire Tested: LD4D80BD010-EU4DR3070959035-4LBCSSQMW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P753806  
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: LD4D80BD010-EU4DR3070959035-4LBCSSQMW  
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6859.3 lumens  
Efficiency: N/A  
Efficacy: 86.9 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

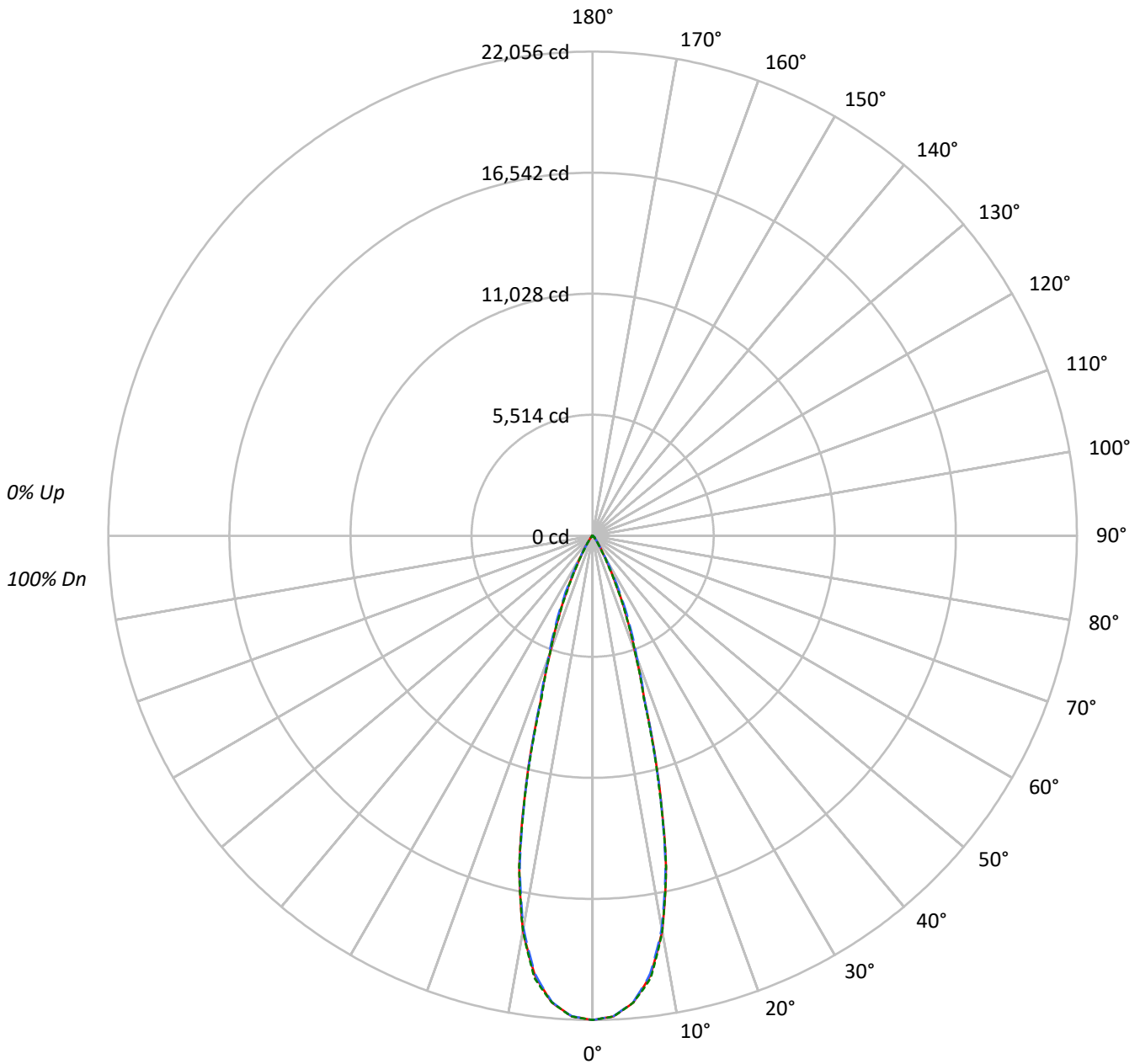
Input Watts (W): 78.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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					70					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								
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°	1688233	1688233	1688233
5°	1639768	1637855	1639845
10°	1420285	1410267	1419951
15°	926666	921690	917054
20°	460787	478072	460168
25°	232111	261747	227356
30°	92937	101262	80969
35°	43105	41283	34602
40°	18615	20664	17526
45°	13131	16291	13250
50°	4513	11860	4775
55°	2602	4911	2749
60°	1822	2159	1822
65°	1177	1177	1177
70°	716	492	716
75°	0	325	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 16291 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1939.5	28.3
10°-20°	3123.5	45.5
20°-30°	1349.8	19.7
30°-40°	307.6	4.5
40°-50°	105.6	1.5
50°-60°	25.8	0.4
60°-70°	6.7	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°	6412.8	93.5
0°-40°	6720.4	98.0
0°-60°	6851.9	99.9
0°-90°	6859.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6859.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	22056	22056	22056	22056	22056	
5°	21341	21321	21316	21361	21342	1941
15°	11694	11553	11631	11593	11573	3131
25°	2748	2852	3099	2780	2692	1316
35°	461	471	442	439	370	313
45°	121	150	150	150	122	86
55°	20	21	37	22	21	19
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°	22055.9	22055.9	22055.9	22055.9	22055.9
2.5°	21909.7	21894.5	21903.2	21914.0	21918.3
5°	21341.2	21320.6	21316.3	21360.7	21342.2
7.5°	20194.4	20165.2	20120.8	20221.5	20315.7
10°	18273.4	18240.9	18144.5	18192.2	18269.1
12.5°	15437.4	15332.3	15330.2	15481.8	15461.2
15°	11693.9	11553.1	11631.1	11593.2	11572.6
17.5°	7863.8	7809.6	7913.6	7882.2	7746.8
20°	5656.9	5671.0	5869.1	5769.5	5649.3
22.5°	4127.9	4178.8	4413.8	4157.1	4062.9
25°	2748.3	2852.3	3099.2	2779.7	2692.0
27.5°	1690.4	1738.0	1988.1	1668.7	1621.1
30°	1051.5	1027.6	1145.7	983.2	916.1
32.5°	689.8	659.5	697.4	625.9	571.8
35°	461.3	471.0	441.8	438.6	370.3
37.5°	288.0	331.4	292.4	311.9	238.2
40°	186.3	240.4	206.8	228.5	175.4
42.5°	152.7	185.2	170.0	180.8	155.9
45°	121.3	150.5	150.5	150.5	122.4
47.5°	67.1	100.7	128.9	102.9	71.5
50°	37.9	50.9	99.6	53.1	40.1
52.5°	26.0	29.2	68.2	30.3	27.1
55°	19.5	20.6	36.8	21.7	20.6
57.5°	15.2	16.2	19.5	16.2	15.2
60°	11.9	11.9	14.1	13.0	11.9
62.5°	8.7	8.7	9.7	8.7	8.7
65°	6.5	6.5	6.5	6.5	6.5
67.5°	3.2	4.3	4.3	4.3	4.3
70°	3.2	2.2	2.2	2.2	3.2
72.5°	2.2	1.1	1.1	1.1	1.1
75°	0.0	0.0	1.1	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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