

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: P753818

Luminaire Tested: LD4D80BD010-EU4DR3070959040-4LBCSSQMMS

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P753818  
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-EU4DR3070959040-4LBCSSQMMMS  
Description: 4 INCH SQAURE SHALLOW CAST MATTE METALLIC SILVER TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

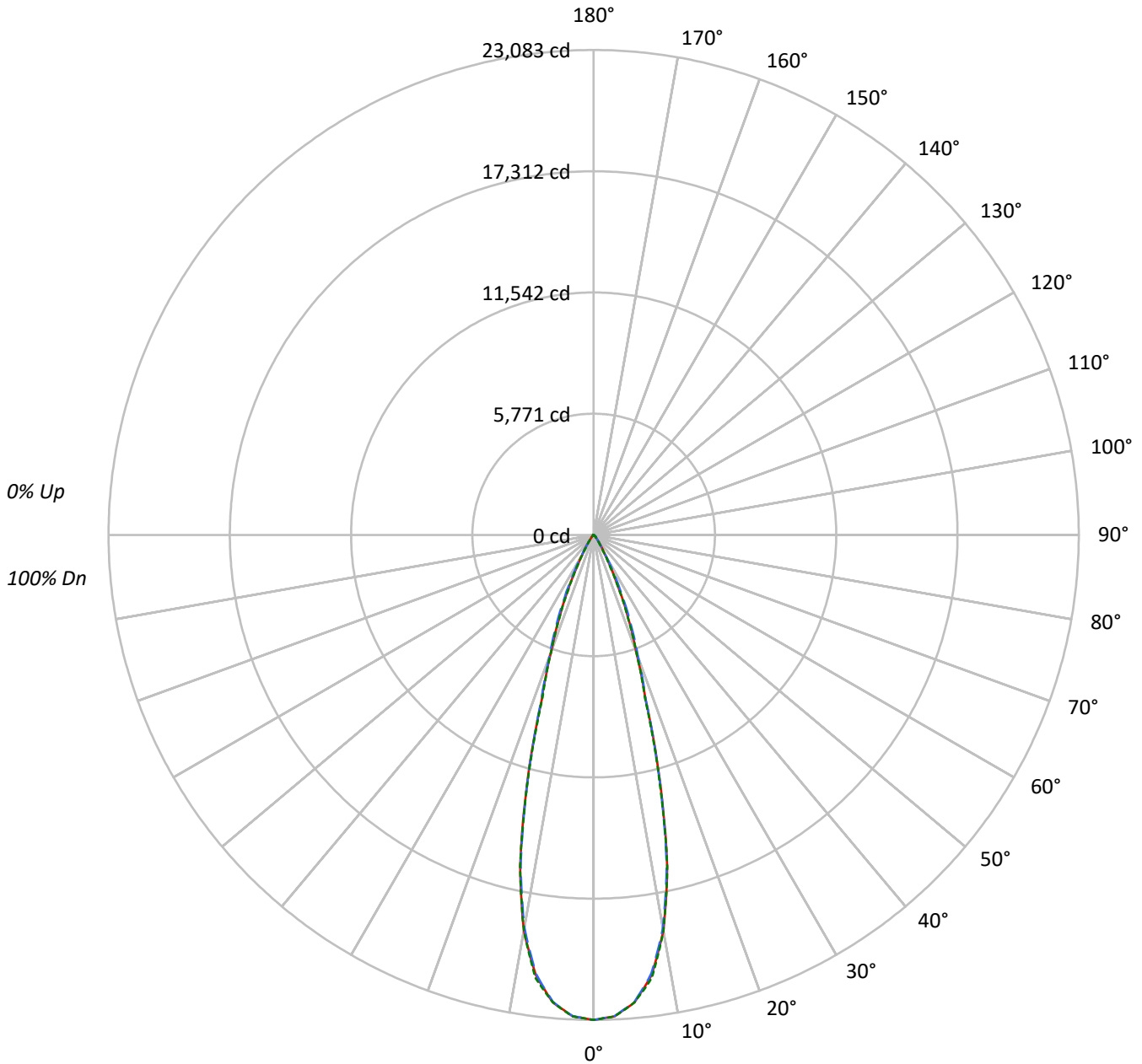
Lumens per Lamp: N/A  
Luminaire Lumens: 7178.8 lumens  
Efficiency: N/A  
Efficacy: 91.0 lumens/watt  
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49  
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')  
CIE Type: Direct

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									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°	1766882	1766882	1766882
5°	1716158	1714152	1716242
10°	1486452	1475967	1486102
15°	969838	964624	959774
20°	482251	500350	481607
25°	242930	273942	237947
30°	97259	105973	84743
35°	45114	43208	36218
40°	19474	21633	18345
45°	13737	17049	13867
50°	4727	12420	4989
55°	2722	5138	2869
60°	1914	2250	1914
65°	1232	1232	1232
70°	761	515	761
75°	0	325	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 17049 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2029.8	28.3
10°-20°	3269.1	45.5
20°-30°	1412.7	19.7
30°-40°	322.0	4.5
40°-50°	110.6	1.5
50°-60°	27.0	0.4
60°-70°	7.0	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°	6711.6	93.5
0°-40°	7033.5	98.0
0°-60°	7171.1	99.9
0°-90°	7178.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7178.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	23083	23083	23083	23083	23083	
5°	22335	22314	22309	22356	22336	2032
15°	12239	12091	12173	12133	12112	3277
25°	2876	2985	3244	2909	2817	1377
35°	483	493	462	459	388	327
45°	127	158	158	158	128	90
55°	20	22	38	23	22	20
65°	7	7	7	7	7	7
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°	23083.4	23083.4	23083.4	23083.4	23083.4
2.5°	22930.4	22914.5	22923.6	22934.9	22939.4
5°	22335.4	22313.9	22309.3	22355.8	22336.5
7.5°	21135.2	21104.6	21058.1	21163.5	21262.1
10°	19124.7	19090.7	18989.8	19039.7	19120.2
12.5°	16156.6	16046.6	16044.4	16203.0	16181.5
15°	12238.7	12091.3	12172.9	12133.3	12111.7
17.5°	8230.1	8173.5	8282.3	8249.4	8107.7
20°	5920.4	5935.2	6142.6	6038.3	5912.5
22.5°	4320.2	4373.5	4619.4	4350.8	4252.2
25°	2876.4	2985.2	3243.6	2909.2	2817.4
27.5°	1769.1	1819.0	2080.8	1746.4	1696.6
30°	1100.4	1075.5	1199.0	1029.1	958.8
32.5°	721.9	690.2	729.9	655.1	598.4
35°	482.8	493.0	462.4	459.0	387.6
37.5°	301.5	346.8	306.0	326.4	249.3
40°	194.9	251.6	216.5	239.1	183.6
42.5°	159.8	193.8	177.9	189.3	163.2
45°	126.9	157.5	157.5	157.5	128.1
47.5°	70.3	105.4	134.9	107.7	74.8
50°	39.7	53.3	104.3	55.5	41.9
52.5°	27.2	30.6	71.4	31.7	28.3
55°	20.4	21.5	38.5	22.7	21.5
57.5°	15.9	17.0	20.4	17.0	15.9
60°	12.5	12.5	14.7	13.6	12.5
62.5°	9.1	9.1	10.2	9.1	9.1
65°	6.8	6.8	6.8	6.8	6.8
67.5°	3.4	4.5	4.5	4.5	4.5
70°	3.4	2.3	2.3	2.3	3.4
72.5°	2.3	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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