

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: P751478

Luminaire Tested: LD4D65D010-EU4DR3055659040-4LBCSSQMMS

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P751478  
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: LD4D65D010-EU4DR3055659040-4LBCSSQMMS  
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: 6276.9 lumens  
Efficiency: N/A  
Efficacy: 86.2 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

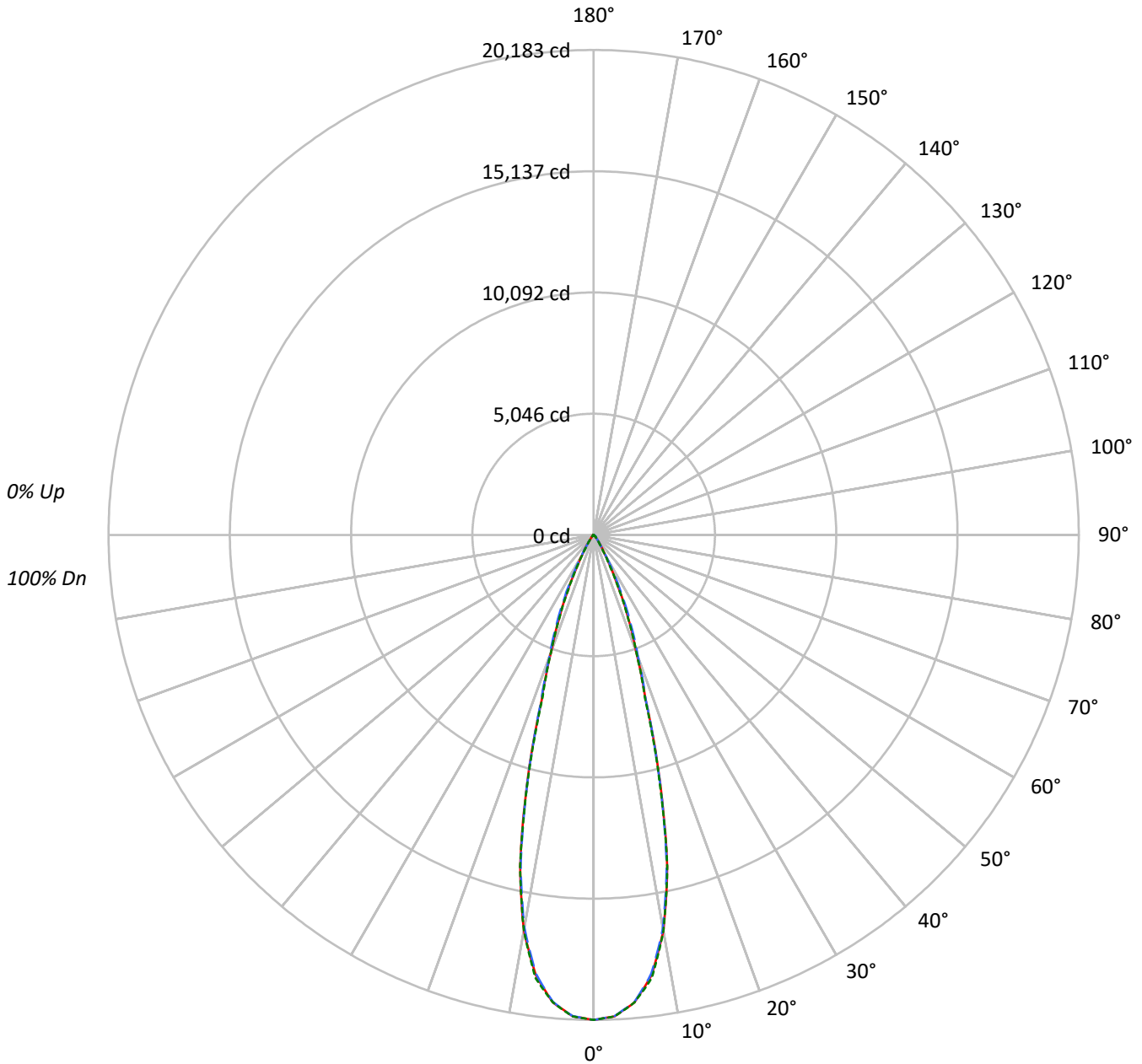
Input Watts (W): 72.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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°	1544906	1544906	1544906
5°	1500549	1498805	1500626
10°	1299704	1290540	1299401
15°	847993	843437	839197
20°	421664	437491	421102
25°	212408	239526	208058
30°	85044	92663	74093
35°	39442	37779	31668
40°	17026	18915	16037
45°	12016	14906	12124
50°	4132	10860	4370
55°	2375	4497	2509
60°	1669	1975	1669
65°	1069	1069	1069
70°	671	448	671
75°	0	296	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 14906 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1774.8	28.3
10°-20°	2858.4	45.5
20°-30°	1235.2	19.7
30°-40°	281.5	4.5
40°-50°	96.7	1.5
50°-60°	23.6	0.4
60°-70°	6.1	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°	5868.4	93.5
0°-40°	6149.9	98.0
0°-60°	6270.2	99.9
0°-90°	6276.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6276.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	20183	20183	20183	20183	20183	
5°	19529	19510	19507	19547	19530	1776
15°	10701	10572	10644	10609	10590	2865
25°	2515	2610	2836	2544	2464	1204
35°	422	431	404	401	339	286
45°	111	138	138	138	112	79
55°	18	19	34	20	19	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°	20183.4	20183.4	20183.4	20183.4	20183.4
2.5°	20049.6	20035.7	20043.6	20053.6	20057.5
5°	19529.3	19510.5	19506.6	19547.2	19530.3
7.5°	18479.9	18453.2	18412.6	18504.7	18590.9
10°	16722.0	16692.3	16604.1	16647.7	16718.1
12.5°	14126.8	14030.6	14028.7	14167.4	14148.6
15°	10701.1	10572.3	10643.6	10608.9	10590.1
17.5°	7196.2	7146.6	7241.8	7213.0	7089.1
20°	5176.6	5189.5	5370.9	5279.7	5169.7
22.5°	3777.4	3824.0	4039.1	3804.2	3718.0
25°	2515.0	2610.1	2836.1	2543.7	2463.5
27.5°	1546.8	1590.5	1819.4	1527.0	1483.4
30°	962.2	940.4	1048.4	899.8	838.3
32.5°	631.2	603.5	638.2	572.8	523.2
35°	422.1	431.1	404.3	401.3	338.9
37.5°	263.6	303.2	267.6	285.4	218.0
40°	170.4	220.0	189.3	209.1	160.5
42.5°	139.7	169.4	155.6	165.5	142.7
45°	111.0	137.7	137.7	137.7	112.0
47.5°	61.4	92.2	117.9	94.1	65.4
50°	34.7	46.6	91.2	48.6	36.7
52.5°	23.8	26.8	62.4	27.7	24.8
55°	17.8	18.8	33.7	19.8	18.8
57.5°	13.9	14.9	17.8	14.9	13.9
60°	10.9	10.9	12.9	11.9	10.9
62.5°	7.9	7.9	8.9	7.9	7.9
65°	5.9	5.9	5.9	5.9	5.9
67.5°	3.0	4.0	4.0	4.0	4.0
70°	3.0	2.0	2.0	2.0	3.0
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

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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