

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: P746798

Luminaire Tested: LD4D35BD010-EU4DR3020359040-4LBCSSQMMS

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P746798  
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: LD4D35BD010-EU4DR3020359040-4LBCSSQMMMS  
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**

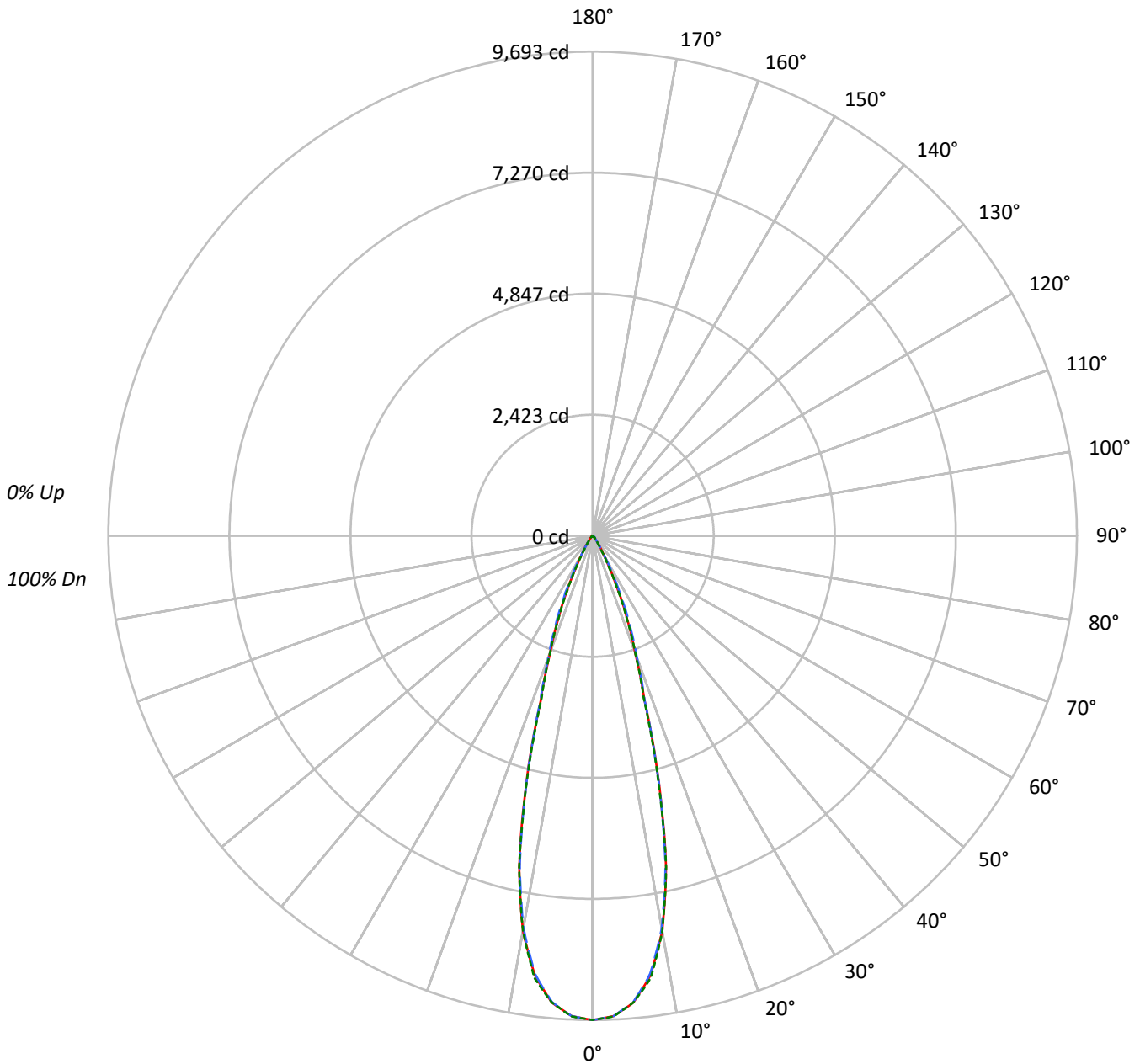
Lumens per Lamp: N/A  
Luminaire Lumens: 3014.4 lumens  
Efficiency: N/A  
Efficacy: 97.9 lumens/watt  
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49  
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')  
CIE Type: Direct

Input Watts (W): 30.8  
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					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°	741912	741912	741912
5°	720612	719775	720650
10°	624164	619757	624017
15°	407233	405046	403009
20°	202499	210099	202230
25°	102006	115029	99912
30°	40843	44502	35584
35°	18941	18146	15212
40°	8183	9083	7704
45°	5770	7155	5824
50°	1989	5216	2096
55°	1148	2162	1201
60°	796	949	796
65°	525	525	525
70°	313	224	313
75°	0	148	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 7155 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	852.3	28.3
10°-20°	1372.7	45.5
20°-30°	593.2	19.7
30°-40°	135.2	4.5
40°-50°	46.4	1.5
50°-60°	11.3	0.4
60°-70°	3.0	0.1
70°-80°	0.3	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°	2818.2	93.5
0°-40°	2953.4	98.0
0°-60°	3011.1	99.9
0°-90°	3014.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3014.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9693	9693	9693	9693	9693	
5°	9379	9370	9368	9387	9379	853
15°	5139	5077	5111	5095	5086	1376
25°	1208	1254	1362	1222	1183	578
35°	203	207	194	193	163	138
45°	53	66	66	66	54	38
55°	9	9	16	10	9	8
65°	3	3	3	3	3	3
75°	0	0	0	0	0	0
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°	9692.7	9692.7	9692.7	9692.7	9692.7
2.5°	9628.5	9621.8	9625.6	9630.4	9632.3
5°	9378.6	9369.6	9367.7	9387.2	9379.1
7.5°	8874.7	8861.8	8842.3	8886.6	8928.0
10°	8030.5	8016.2	7973.8	7994.8	8028.6
12.5°	6784.1	6738.0	6737.0	6803.6	6794.6
15°	5139.0	5077.2	5111.4	5094.8	5085.7
17.5°	3455.8	3432.0	3477.7	3463.9	3404.4
20°	2486.0	2492.2	2579.3	2535.5	2482.7
22.5°	1814.1	1836.4	1939.7	1826.9	1785.5
25°	1207.8	1253.5	1362.0	1221.6	1183.0
27.5°	742.8	763.8	873.7	733.3	712.4
30°	462.1	451.6	503.5	432.1	402.6
32.5°	303.1	289.8	306.5	275.1	251.3
35°	202.7	207.0	194.2	192.7	162.8
37.5°	126.6	145.6	128.5	137.1	104.7
40°	81.9	105.6	90.9	100.4	77.1
42.5°	67.1	81.4	74.7	79.5	68.5
45°	53.3	66.1	66.1	66.1	53.8
47.5°	29.5	44.3	56.6	45.2	31.4
50°	16.7	22.4	43.8	23.3	17.6
52.5°	11.4	12.8	30.0	13.3	11.9
55°	8.6	9.0	16.2	9.5	9.0
57.5°	6.7	7.1	8.6	7.1	6.7
60°	5.2	5.2	6.2	5.7	5.2
62.5°	3.8	3.8	4.3	3.8	3.8
65°	2.9	2.9	2.9	2.9	2.9
67.5°	1.4	1.9	1.9	1.9	1.9
70°	1.4	1.0	1.0	1.0	1.4
72.5°	1.0	0.5	0.5	0.5	0.5
75°	0.0	0.0	0.5	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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