

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: P749932

Luminaire Tested: LD4D55D010-EU4DR3055659050-4LBCSSQMW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P749932  
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: LD4D55D010-EU4DR3055659050-4LBCSSQMW  
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

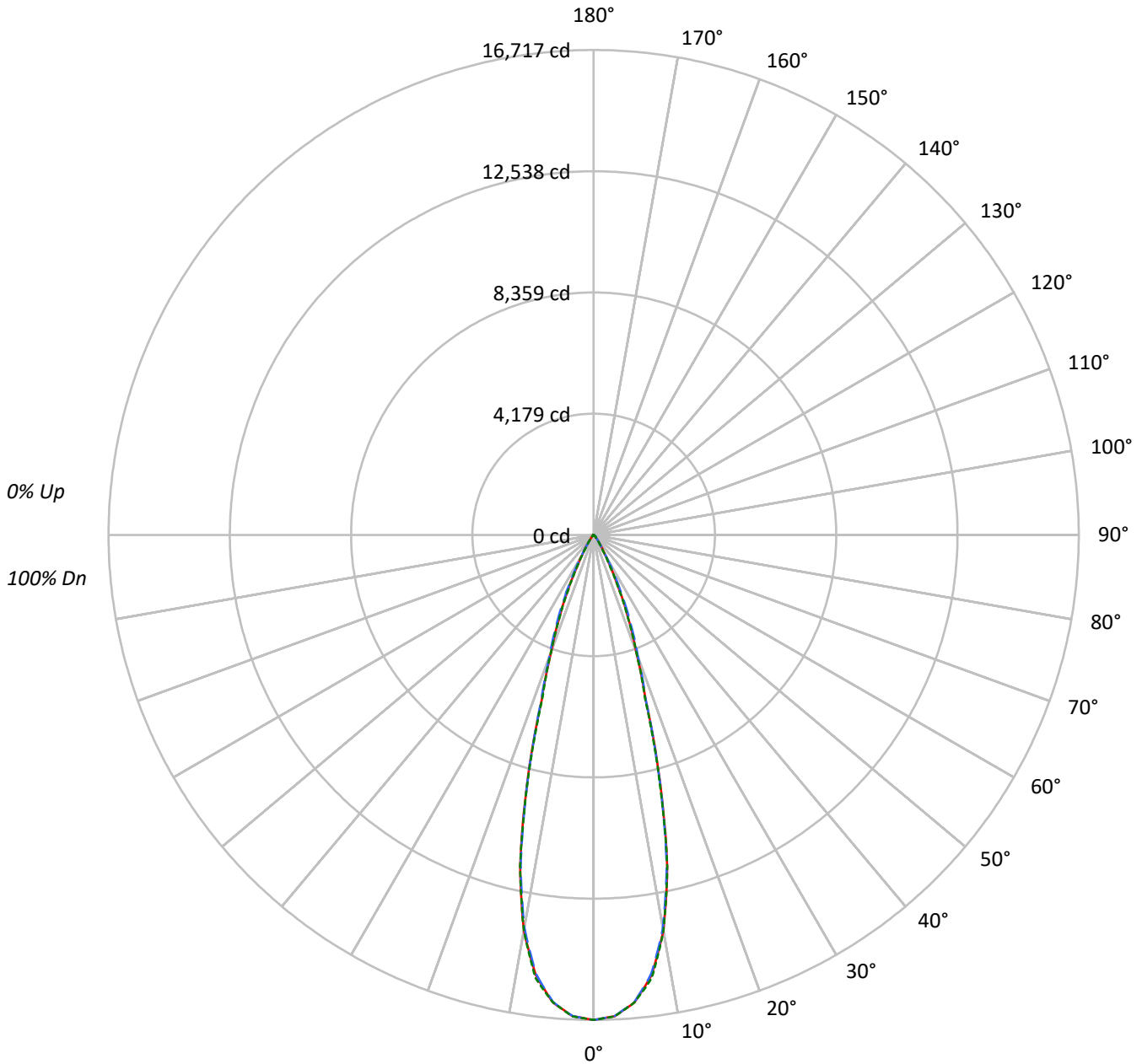
Lumens per Lamp: N/A  
Luminaire Lumens: 5198.8 lumens  
Efficiency: N/A  
Efficacy: 89.3 lumens/watt  
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49  
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')  
CIE Type: Direct

Input Watts (W): 58.2  
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°	1279561	1279561	1279561
5°	1242826	1241382	1242888
10°	1076480	1068887	1076224
15°	702351	698579	695061
20°	349242	362348	348777
25°	175922	198388	172325
30°	70434	76744	61365
35°	32667	31294	26229
40°	14109	15668	13289
45°	9948	12351	10035
50°	3418	8991	3620
55°	1975	3723	2082
60°	1378	1638	1378
65°	887	887	887
70°	559	358	559
75°	0	237	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 12351 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1470.0	28.3
10°-20°	2367.4	45.5
20°-30°	1023.0	19.7
30°-40°	233.2	4.5
40°-50°	80.1	1.5
50°-60°	19.6	0.4
60°-70°	5.1	0.1
70°-80°	0.5	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°	4860.5	93.5
0°-40°	5093.6	98.0
0°-60°	5193.3	99.9
0°-90°	5198.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5198.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	16717	16717	16717	16717	16717	
5°	16175	16160	16156	16190	16176	1471
15°	8863	8756	8816	8787	8771	2373
25°	2083	2162	2349	2107	2040	997
35°	350	357	335	332	281	237
45°	92	114	114	114	93	65
55°	15	16	28	16	16	14
65°	5	5	5	5	5	5
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°	16716.8	16716.8	16716.8	16716.8	16716.8
2.5°	16606.0	16594.5	16601.1	16609.3	16612.6
5°	16175.1	16159.5	16156.3	16189.9	16175.9
7.5°	15306.0	15283.8	15250.2	15326.5	15397.9
10°	13850.0	13825.4	13752.3	13788.4	13846.7
12.5°	11700.5	11620.8	11619.2	11734.1	11718.5
15°	8863.2	8756.5	8815.6	8786.8	8771.2
17.5°	5960.2	5919.2	5998.0	5974.2	5871.6
20°	4287.5	4298.2	4448.4	4372.9	4281.8
22.5°	3128.7	3167.2	3345.3	3150.8	3079.4
25°	2083.0	2161.8	2349.0	2106.8	2040.4
27.5°	1281.2	1317.3	1506.9	1264.8	1228.6
30°	796.9	778.9	868.3	745.2	694.3
32.5°	522.8	499.8	528.6	474.4	433.4
35°	349.6	357.0	334.9	332.4	280.7
37.5°	218.3	251.1	221.6	236.4	180.6
40°	141.2	182.2	156.8	173.2	133.0
42.5°	115.7	140.3	128.9	137.1	118.2
45°	91.9	114.1	114.1	114.1	92.7
47.5°	50.9	76.3	97.7	78.0	54.2
50°	28.7	38.6	75.5	40.2	30.4
52.5°	19.7	22.2	51.7	23.0	20.5
55°	14.8	15.6	27.9	16.4	15.6
57.5°	11.5	12.3	14.8	12.3	11.5
60°	9.0	9.0	10.7	9.8	9.0
62.5°	6.6	6.6	7.4	6.6	6.6
65°	4.9	4.9	4.9	4.9	4.9
67.5°	2.5	3.3	3.3	3.3	3.3
70°	2.5	1.6	1.6	1.6	2.5
72.5°	1.6	0.8	0.8	0.8	0.8
75°	0.0	0.0	0.8	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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