

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: P749882

Luminaire Tested: LD4D55D010-EU4DR3055659027-4LBDP1H

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P749882  
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-EU4DR3055659027-4LBDP1H  
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5186.4 lumens  
Efficiency: N/A  
Efficacy: 89.1 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

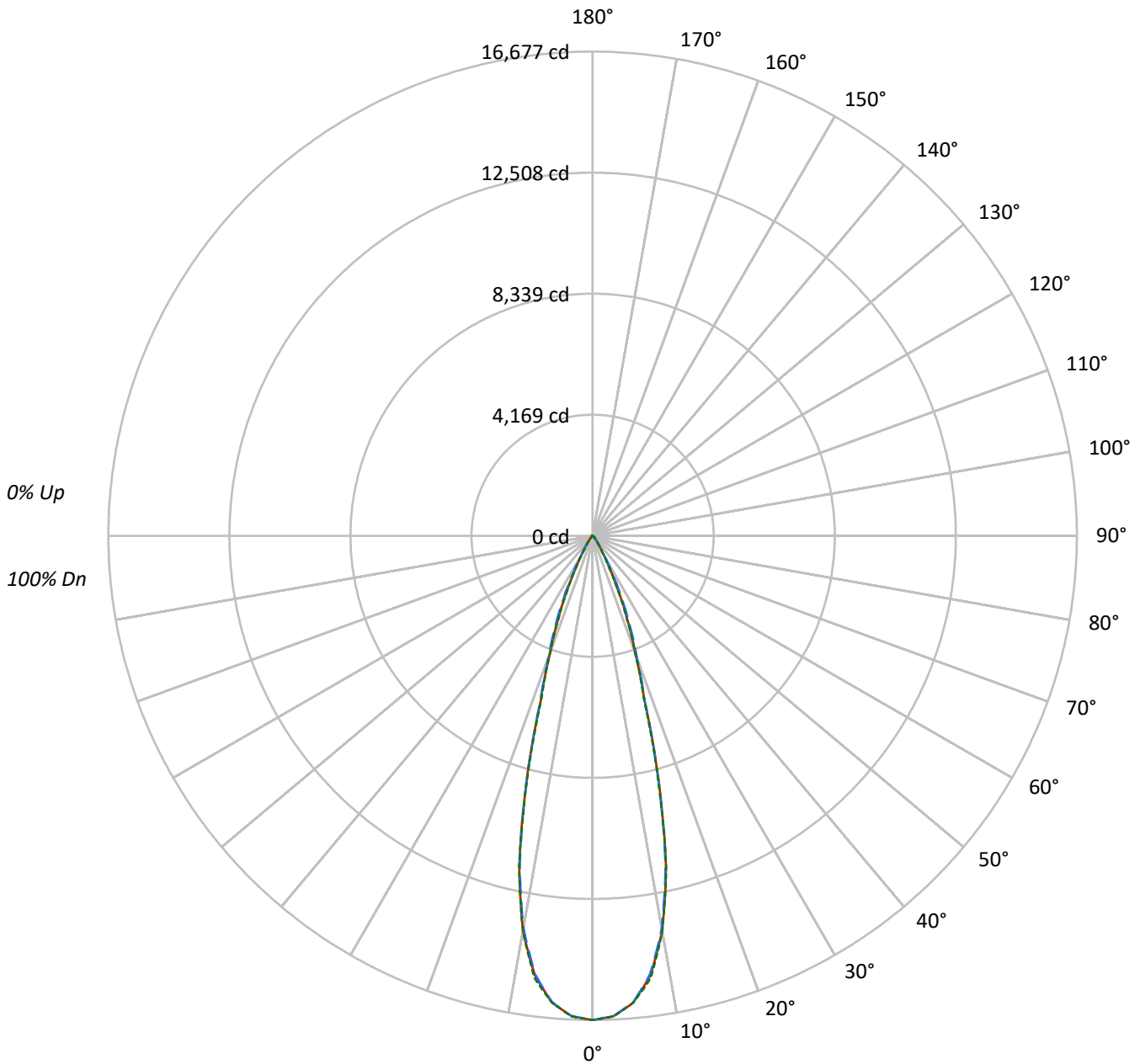
Input Watts (W): 58.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



Downlight

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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																			
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°	1276491	1276491	1276491
5°	1239845	1238401	1239907
10°	1073892	1066322	1073643
15°	700664	696900	693397
20°	348411	361476	347938
25°	175500	197906	171911
30°	70266	76568	61224
35°	32593	31219	26164
40°	14069	15628	13249
45°	9926	12319	10013
50°	3418	8967	3608
55°	1962	3710	2082
60°	1378	1623	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: 12319 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1466.5	28.3
10°-20°	2361.8	45.5
20°-30°	1020.6	19.7
30°-40°	232.6	4.5
40°-50°	79.9	1.5
50°-60°	19.5	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°	4848.8	93.5
0°-40°	5081.4	98.0
0°-60°	5180.8	99.9
0°-90°	5186.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5186.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	16677	16677	16677	16677	16677	
5°	16136	16121	16118	16151	16137	1468
15°	8842	8736	8794	8766	8750	2368
25°	2078	2157	2343	2102	2036	995
35°	349	356	334	332	280	237
45°	92	114	114	114	92	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°	16676.7	16676.7	16676.7	16676.7	16676.7
2.5°	16566.2	16554.7	16561.3	16569.5	16572.7
5°	16136.3	16120.8	16117.5	16151.1	16137.1
7.5°	15269.2	15247.1	15213.6	15289.7	15361.0
10°	13816.7	13792.2	13719.3	13755.3	13813.5
12.5°	11672.4	11593.0	11591.3	11706.0	11690.4
15°	8841.9	8735.5	8794.4	8765.8	8750.2
17.5°	5945.9	5905.0	5983.6	5959.8	5857.5
20°	4277.3	4287.9	4437.7	4362.4	4271.5
22.5°	3121.2	3159.6	3337.3	3143.3	3072.0
25°	2078.0	2156.6	2343.3	2101.8	2035.5
27.5°	1278.1	1314.1	1503.3	1261.7	1225.7
30°	795.0	777.0	866.3	743.4	692.7
32.5°	521.6	498.6	527.3	473.2	432.3
35°	348.8	356.2	334.1	331.6	280.0
37.5°	217.8	250.5	221.1	235.8	180.1
40°	140.8	181.8	156.4	172.8	132.6
42.5°	115.4	140.0	128.5	136.7	117.9
45°	91.7	113.8	113.8	113.8	92.5
47.5°	50.8	76.1	97.4	77.8	54.0
50°	28.7	38.5	75.3	40.1	30.3
52.5°	19.7	22.1	51.6	22.9	20.5
55°	14.7	15.6	27.8	16.4	15.6
57.5°	11.5	12.3	14.7	12.3	11.5
60°	9.0	9.0	10.6	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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(END OF REPORT)