

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: P749865

Luminaire Tested: LD4D55D010-EU4DR3055659024-4LBCSSQMB

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P749865  
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-EU4DR3055659024-4LBCSSQMB  
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

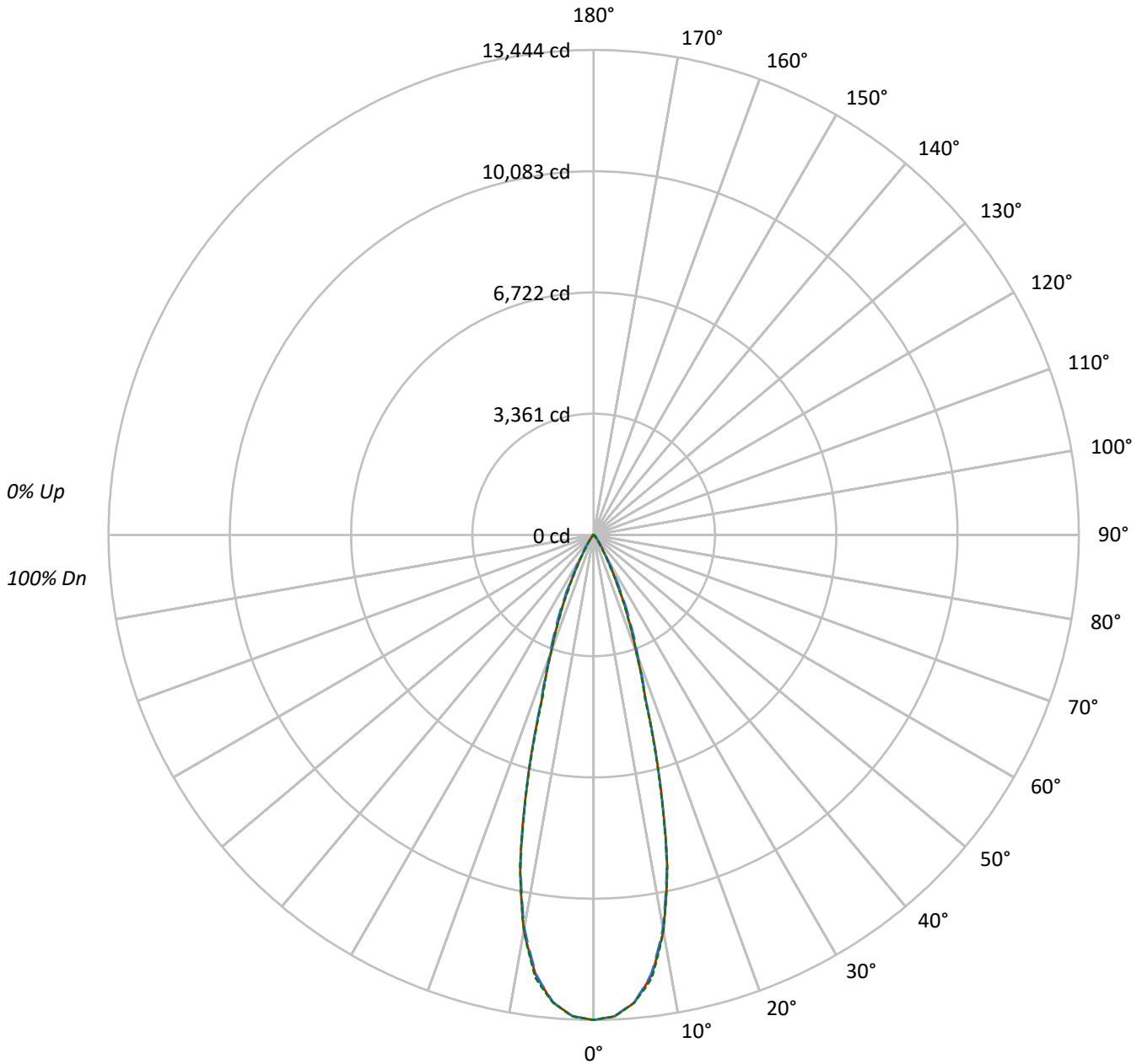
Lumens per Lamp: N/A  
Luminaire Lumens: 4181.0 lumens  
Efficiency: N/A  
Efficacy: 71.8 lumens/watt  
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49  
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')  
CIE Type: Direct

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°	1029042	1029042	1029042
5°	999495	998335	999549
10°	865715	859614	865513
15°	564840	561805	558976
20°	280868	291408	280493
25°	141481	159546	138584
30°	56646	61719	49354
35°	26276	25164	21090
40°	11341	12600	10681
45°	8000	9926	8075
50°	2751	7228	2906
55°	1588	2989	1668
60°	1118	1317	1118
65°	724	724	724
70°	448	291	448
75°	0	207	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 9926 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1182.2	28.3
10°-20°	1903.9	45.5
20°-30°	822.7	19.7
30°-40°	187.5	4.5
40°-50°	64.4	1.5
50°-60°	15.7	0.4
60°-70°	4.1	0.1
70°-80°	0.4	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°	3908.8	93.5
0°-40°	4096.4	98.0
0°-60°	4176.5	99.9
0°-90°	4181.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4181.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	13444	13444	13444	13444	13444	
5°	13008	12996	12993	13020	13009	1183
15°	7128	7042	7090	7066	7054	1909
25°	1675	1739	1889	1694	1641	802
35°	281	287	269	267	226	191
45°	74	92	92	92	75	52
55°	12	12	22	13	12	12
65°	4	4	4	4	4	4
75°	0	0	1	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	13443.9	13443.9	13443.9	13443.9	13443.9
2.5°	13354.8	13345.5	13350.8	13357.4	13360.0
5°	13008.2	12995.7	12993.1	13020.1	13008.9
7.5°	12309.2	12291.4	12264.4	12325.7	12383.2
10°	11138.3	11118.5	11059.8	11088.8	11135.7
12.5°	9409.7	9345.6	9344.3	9436.7	9424.2
15°	7127.9	7042.1	7089.6	7066.5	7053.9
17.5°	4793.3	4760.3	4823.6	4804.5	4722.0
20°	3448.1	3456.7	3577.5	3516.7	3443.5
22.5°	2516.1	2547.1	2690.4	2533.9	2476.5
25°	1675.2	1738.6	1889.1	1694.3	1640.9
27.5°	1030.3	1059.4	1211.8	1017.1	988.1
30°	640.9	626.4	698.3	599.3	558.4
32.5°	420.5	402.0	425.1	381.5	348.5
35°	281.2	287.1	269.3	267.3	225.7
37.5°	175.6	202.0	178.2	190.1	145.2
40°	113.5	146.5	126.1	139.3	106.9
42.5°	93.1	112.9	103.6	110.2	95.0
45°	73.9	91.7	91.7	91.7	74.6
47.5°	40.9	61.4	78.5	62.7	43.6
50°	23.1	31.0	60.7	32.3	24.4
52.5°	15.8	17.8	41.6	18.5	16.5
55°	11.9	12.5	22.4	13.2	12.5
57.5°	9.2	9.9	11.9	9.9	9.2
60°	7.3	7.3	8.6	7.9	7.3
62.5°	5.3	5.3	5.9	5.3	5.3
65°	4.0	4.0	4.0	4.0	4.0
67.5°	2.0	2.6	2.6	2.6	2.6
70°	2.0	1.3	1.3	1.3	2.0
72.5°	1.3	0.7	0.7	0.7	0.7
75°	0.0	0.0	0.7	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

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Scaled Data Report



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Scaled Data Report







— 0°-180°    - - 45°-225°    - - - 90°-270°

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