

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: P749911

Luminaire Tested: LD4D55D010-EU4DR3055659035-4LBS1B

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P749911  
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-EU4DR3055659035-4LBS1B  
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5328.8 lumens  
Efficiency: N/A  
Efficacy: 91.6 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

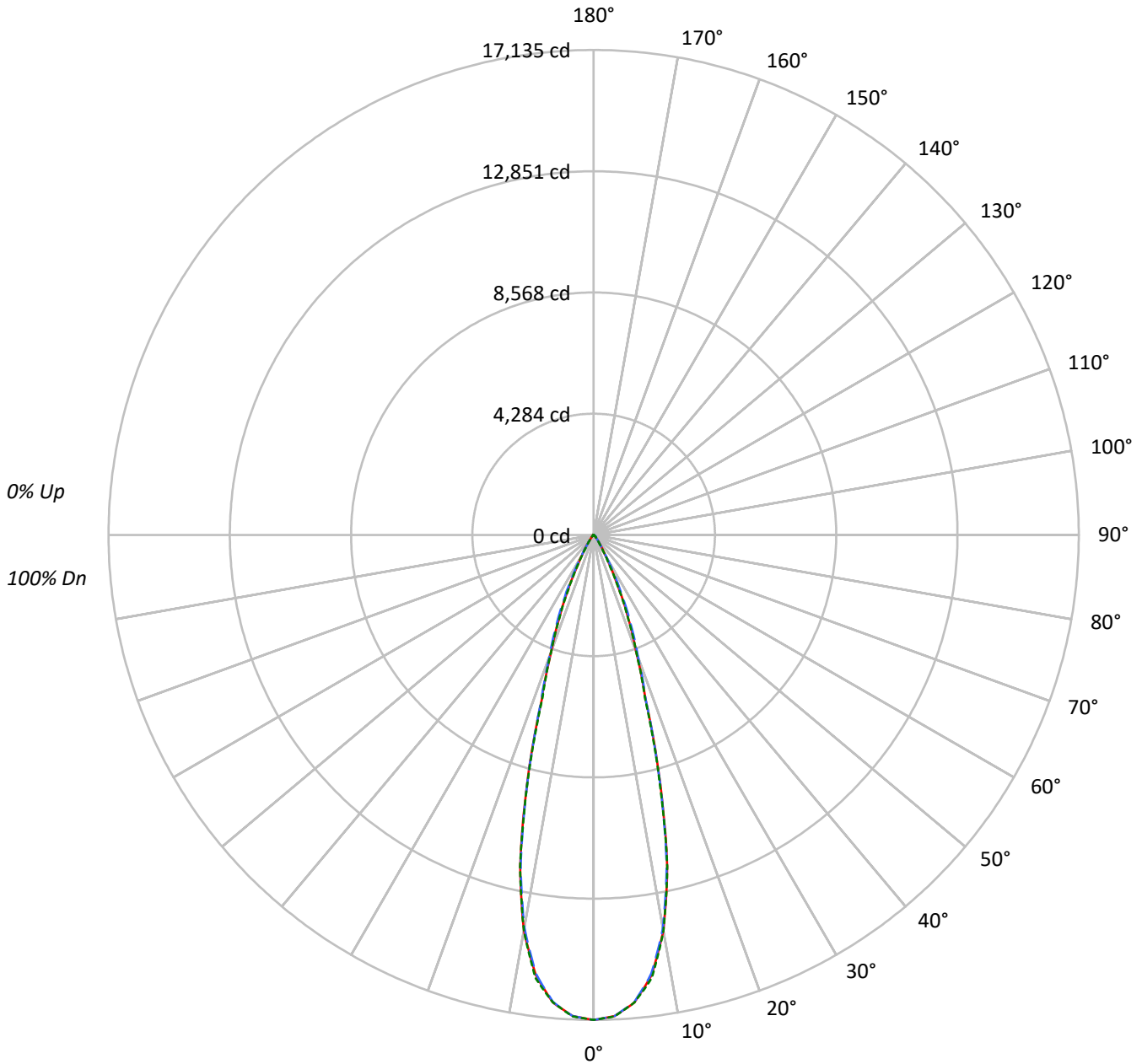
Input Watts (W): 58.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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°	1311548	1311548	1311548
5°	1273891	1272408	1273960
10°	1103388	1095600	1103124
15°	719904	716037	712439
20°	357974	371406	357493
25°	180323	203345	176632
30°	72201	78662	62903
35°	33490	32069	26883
40°	14458	16057	13619
45°	10197	12654	10294
50°	3501	9217	3703
55°	2015	3817	2135
60°	1424	1669	1424
65°	906	906	906
70°	559	380	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: 12654 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1506.7	28.3
10°-20°	2426.6	45.5
20°-30°	1048.6	19.7
30°-40°	239.0	4.5
40°-50°	82.1	1.5
50°-60°	20.0	0.4
60°-70°	5.2	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°	4981.9	93.5
0°-40°	5220.9	98.0
0°-60°	5323.0	99.9
0°-90°	5328.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5328.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	17135	17135	17135	17135	17135	
5°	16579	16563	16560	16595	16580	1508
15°	9085	8975	9036	9006	8990	2433
25°	2135	2216	2408	2160	2091	1022
35°	358	366	343	341	288	243
45°	94	117	117	117	95	67
55°	15	16	29	17	16	15
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°	17134.7	17134.7	17134.7	17134.7	17134.7
2.5°	17021.1	17009.3	17016.0	17024.4	17027.8
5°	16579.4	16563.4	16560.1	16594.6	16580.3
7.5°	15688.5	15665.8	15631.3	15709.6	15782.8
10°	14196.2	14170.9	14096.0	14133.1	14192.8
12.5°	11992.9	11911.3	11909.6	12027.4	12011.4
15°	9084.7	8975.3	9035.9	9006.5	8990.5
17.5°	6109.2	6067.1	6147.9	6123.5	6018.3
20°	4394.7	4405.6	4559.6	4482.2	4388.8
22.5°	3206.9	3246.4	3428.9	3229.6	3156.4
25°	2135.1	2215.9	2407.7	2159.5	2091.4
27.5°	1313.2	1350.2	1544.5	1296.4	1259.4
30°	816.9	798.3	890.0	763.9	711.7
32.5°	535.9	512.3	541.8	486.2	444.2
35°	358.4	365.9	343.2	340.7	287.7
37.5°	223.8	257.4	227.1	242.3	185.1
40°	144.7	186.8	160.7	177.5	136.3
42.5°	118.6	143.9	132.1	140.5	121.1
45°	94.2	116.9	116.9	116.9	95.1
47.5°	52.2	78.2	100.1	79.9	55.5
50°	29.4	39.5	77.4	41.2	31.1
52.5°	20.2	22.7	53.0	23.6	21.0
55°	15.1	16.0	28.6	16.8	16.0
57.5°	11.8	12.6	15.1	12.6	11.8
60°	9.3	9.3	10.9	10.1	9.3
62.5°	6.7	6.7	7.6	6.7	6.7
65°	5.0	5.0	5.0	5.0	5.0
67.5°	2.5	3.4	3.4	3.4	3.4
70°	2.5	1.7	1.7	1.7	2.5
72.5°	1.7	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

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Scaled Data Report







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

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(END OF REPORT)