

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: P749910

Luminaire Tested: LD4D55D010-EU4DR3055659035-4LBDP1MW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P749910  
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-EU4DR3055659035-4LBDP1MW  
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4816.6 lumens  
Efficiency: N/A  
Efficacy: 82.8 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

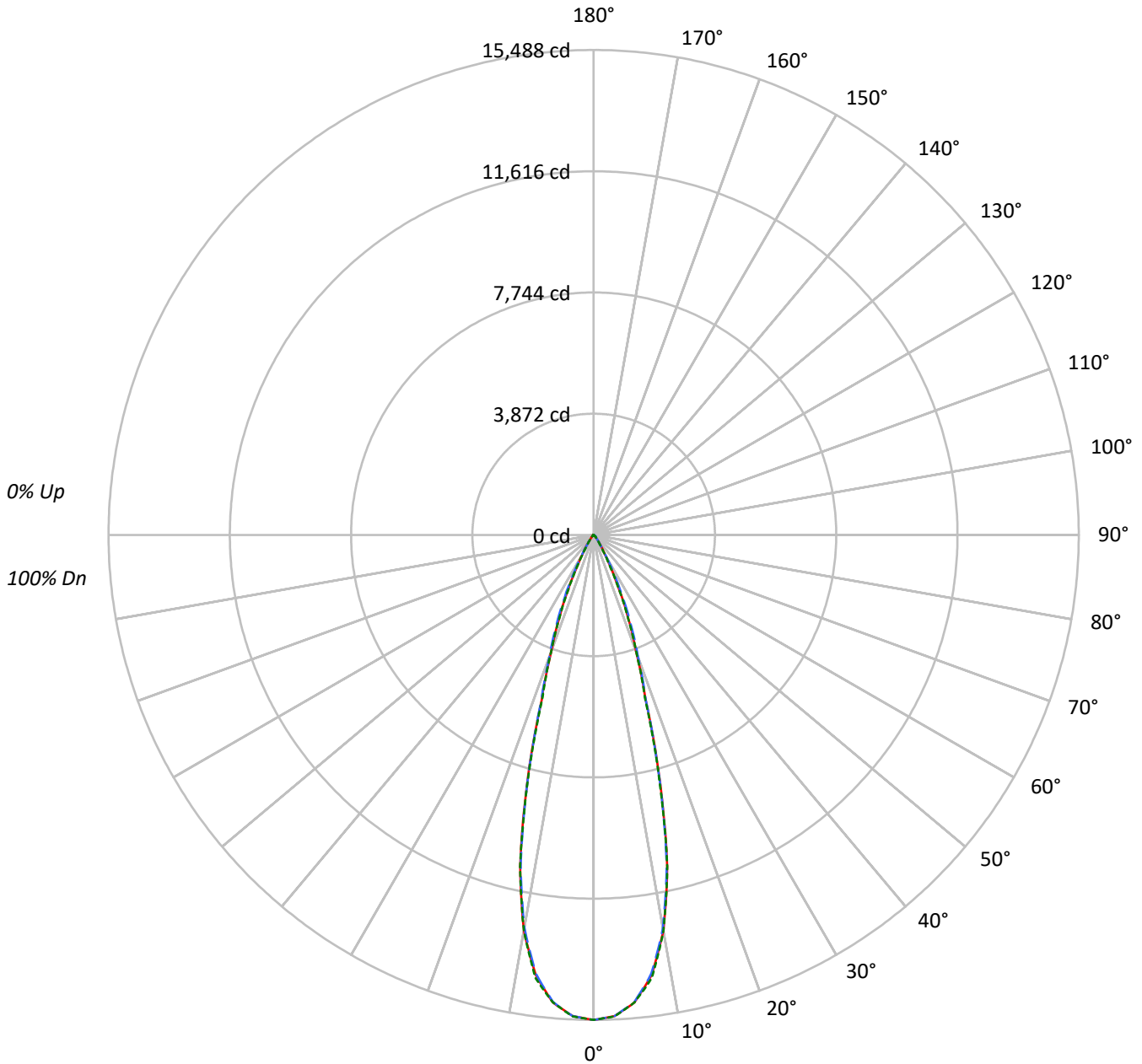
Input Watts (W): 58.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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°	1185473	1185473	1185473
5°	1151438	1150093	1151499
10°	997318	990284	997085
15°	650701	647206	643957
20°	323567	335704	323127
25°	162992	183794	159648
30°	65254	71105	56858
35°	30266	28986	24304
40°	13070	14508	12310
45°	9223	11442	9299
50°	3168	8336	3346
55°	1828	3456	1922
60°	1286	1516	1286
65°	833	833	833
70°	515	336	515
75°	0	237	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 11442 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1361.9	28.3
10°-20°	2193.3	45.5
20°-30°	947.8	19.7
30°-40°	216.0	4.5
40°-50°	74.2	1.5
50°-60°	18.1	0.4
60°-70°	4.7	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°	4503.0	93.5
0°-40°	4719.1	98.0
0°-60°	4811.4	99.9
0°-90°	4816.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4816.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	15488	15488	15488	15488	15488	
5°	14986	14971	14968	14999	14986	1363
15°	8211	8113	8167	8141	8126	2199
25°	1930	2003	2176	1952	1890	924
35°	324	331	310	308	260	220
45°	85	106	106	106	86	60
55°	14	14	26	15	14	13
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°	15487.6	15487.6	15487.6	15487.6	15487.6
2.5°	15384.9	15374.3	15380.4	15388.0	15391.0
5°	14985.7	14971.3	14968.2	14999.4	14986.5
7.5°	14180.5	14159.9	14128.8	14199.5	14265.6
10°	12831.5	12808.7	12741.0	12774.5	12828.5
12.5°	10840.1	10766.3	10764.8	10871.3	10856.8
15°	8211.4	8112.6	8167.3	8140.7	8126.3
17.5°	5521.9	5483.9	5556.9	5534.9	5439.8
20°	3972.3	3982.1	4121.3	4051.3	3966.9
22.5°	2898.6	2934.3	3099.3	2919.1	2853.0
25°	1929.9	2002.9	2176.2	1951.9	1890.3
27.5°	1187.0	1220.4	1396.1	1171.8	1138.3
30°	738.3	721.6	804.5	690.4	643.3
32.5°	484.4	463.1	489.7	439.5	401.5
35°	323.9	330.8	310.2	308.0	260.1
37.5°	202.3	232.7	205.3	219.0	167.3
40°	130.8	168.8	145.2	160.4	123.2
42.5°	107.2	130.0	119.4	127.0	109.5
45°	85.2	105.7	105.7	105.7	85.9
47.5°	47.1	70.7	90.5	72.2	50.2
50°	26.6	35.7	70.0	37.3	28.1
52.5°	18.2	20.5	47.9	21.3	19.0
55°	13.7	14.4	25.9	15.2	14.4
57.5°	10.6	11.4	13.7	11.4	10.6
60°	8.4	8.4	9.9	9.1	8.4
62.5°	6.1	6.1	6.8	6.1	6.1
65°	4.6	4.6	4.6	4.6	4.6
67.5°	2.3	3.0	3.0	3.0	3.0
70°	2.3	1.5	1.5	1.5	2.3
72.5°	1.5	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)