

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: P749938

Luminaire Tested: LD4D55D010-EU4DR3055659050-4LBS1H

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P749938  
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-EU4DR3055659050-4LBS1H  
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5991.8 lumens  
Efficiency: N/A  
Efficacy: 103.0 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

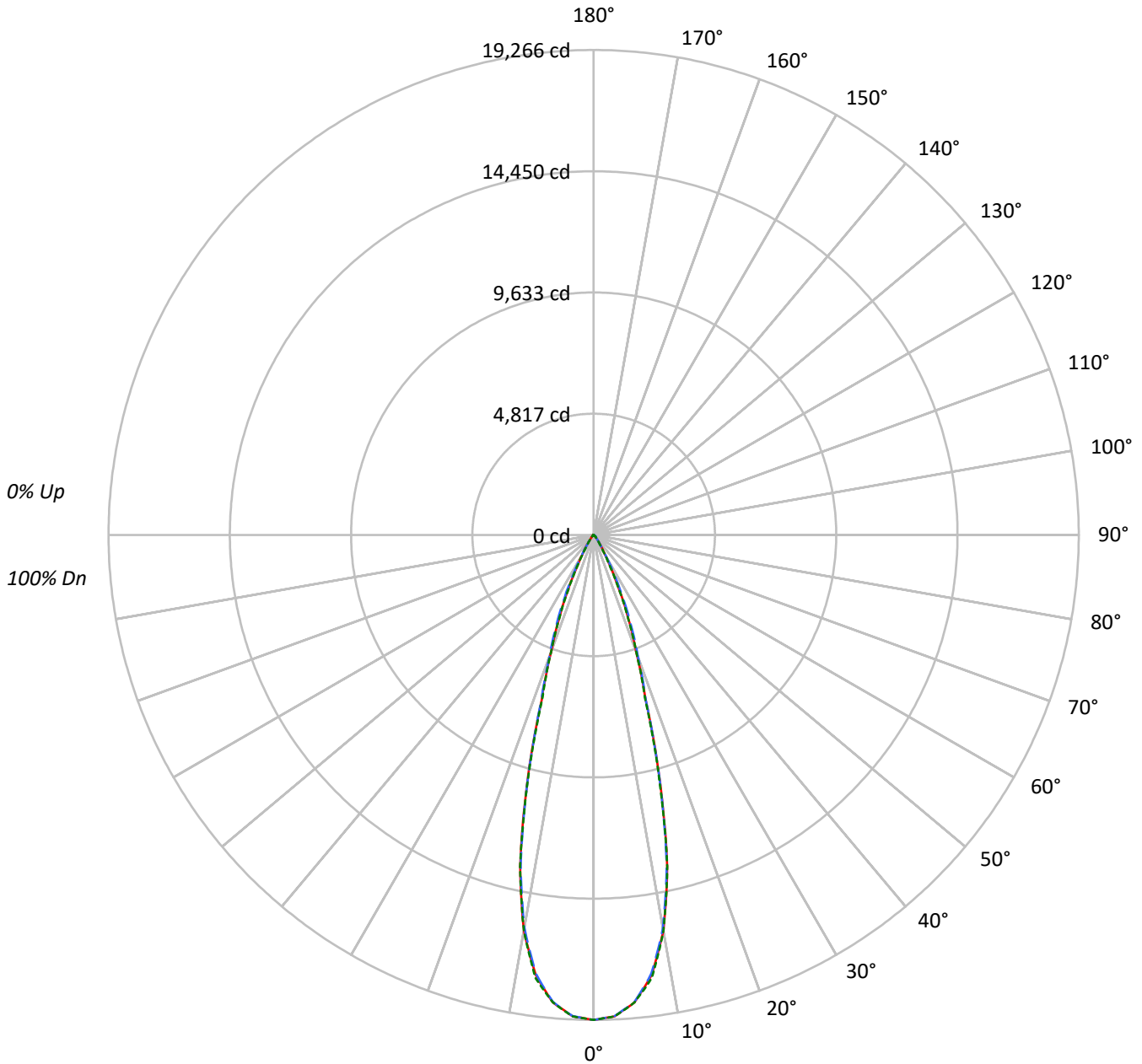
Input Watts (W): 58.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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	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°	1474723	1474723	1474723
5°	1432388	1430713	1432457
10°	1240665	1231913	1240369
15°	809473	805122	801073
20°	402514	417616	401976
25°	202754	228640	198607
30°	81181	88455	70725
35°	37657	36059	30229
40°	16257	18056	15308
45°	11464	14235	11572
50°	3942	10360	4168
55°	2269	4297	2402
60°	1592	1883	1592
65°	1032	1032	1032
70°	627	425	627
75°	0	266	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 14235 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1694.2	28.3
10°-20°	2728.5	45.5
20°-30°	1179.1	19.7
30°-40°	268.7	4.5
40°-50°	92.3	1.5
50°-60°	22.5	0.4
60°-70°	5.9	0.1
70°-80°	0.6	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°	5601.8	93.5
0°-40°	5870.5	98.0
0°-60°	5985.3	99.9
0°-90°	5991.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5991.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	19266	19266	19266	19266	19266	
5°	18642	18624	18620	18659	18643	1696
15°	10215	10092	10160	10127	10109	2735
25°	2401	2492	2707	2428	2352	1149
35°	403	412	386	383	324	273
45°	106	132	132	132	107	75
55°	17	18	32	19	18	17
65°	6	6	6	6	6	6
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°	19266.5	19266.5	19266.5	19266.5	19266.5
2.5°	19138.8	19125.5	19133.1	19142.6	19146.3
5°	18642.2	18624.2	18620.4	18659.2	18643.1
7.5°	17640.4	17614.9	17576.1	17664.1	17746.4
10°	15962.4	15934.0	15849.8	15891.4	15958.6
12.5°	13485.0	13393.3	13391.4	13523.8	13505.8
15°	10215.0	10092.0	10160.1	10127.0	10109.0
17.5°	6869.3	6822.0	6912.8	6885.3	6767.1
20°	4941.5	4953.8	5126.9	5039.9	4934.9
22.5°	3605.8	3650.3	3855.6	3631.4	3549.1
25°	2400.7	2491.6	2707.2	2428.2	2351.6
27.5°	1476.6	1518.2	1736.7	1457.7	1416.0
30°	918.5	897.7	1000.8	858.9	800.2
32.5°	602.6	576.1	609.2	546.7	499.4
35°	403.0	411.5	385.9	383.1	323.5
37.5°	251.6	289.5	255.4	272.4	208.1
40°	162.7	210.0	180.7	199.6	153.2
42.5°	133.4	161.8	148.5	158.0	136.2
45°	105.9	131.5	131.5	131.5	106.9
47.5°	58.6	88.0	112.6	89.9	62.4
50°	33.1	44.5	87.0	46.4	35.0
52.5°	22.7	25.5	59.6	26.5	23.6
55°	17.0	18.0	32.2	18.9	18.0
57.5°	13.2	14.2	17.0	14.2	13.2
60°	10.4	10.4	12.3	11.4	10.4
62.5°	7.6	7.6	8.5	7.6	7.6
65°	5.7	5.7	5.7	5.7	5.7
67.5°	2.8	3.8	3.8	3.8	3.8
70°	2.8	1.9	1.9	1.9	2.8
72.5°	1.9	0.9	0.9	0.9	0.9
75°	0.0	0.0	0.9	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)