

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: P749872

Luminaire Tested: LD4D55D010-EU4DR3055659024-4LBS1B

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P749872  
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-EU4DR3055659024-4LBS1B  
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4518.6 lumens  
Efficiency: N/A  
Efficacy: 77.6 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

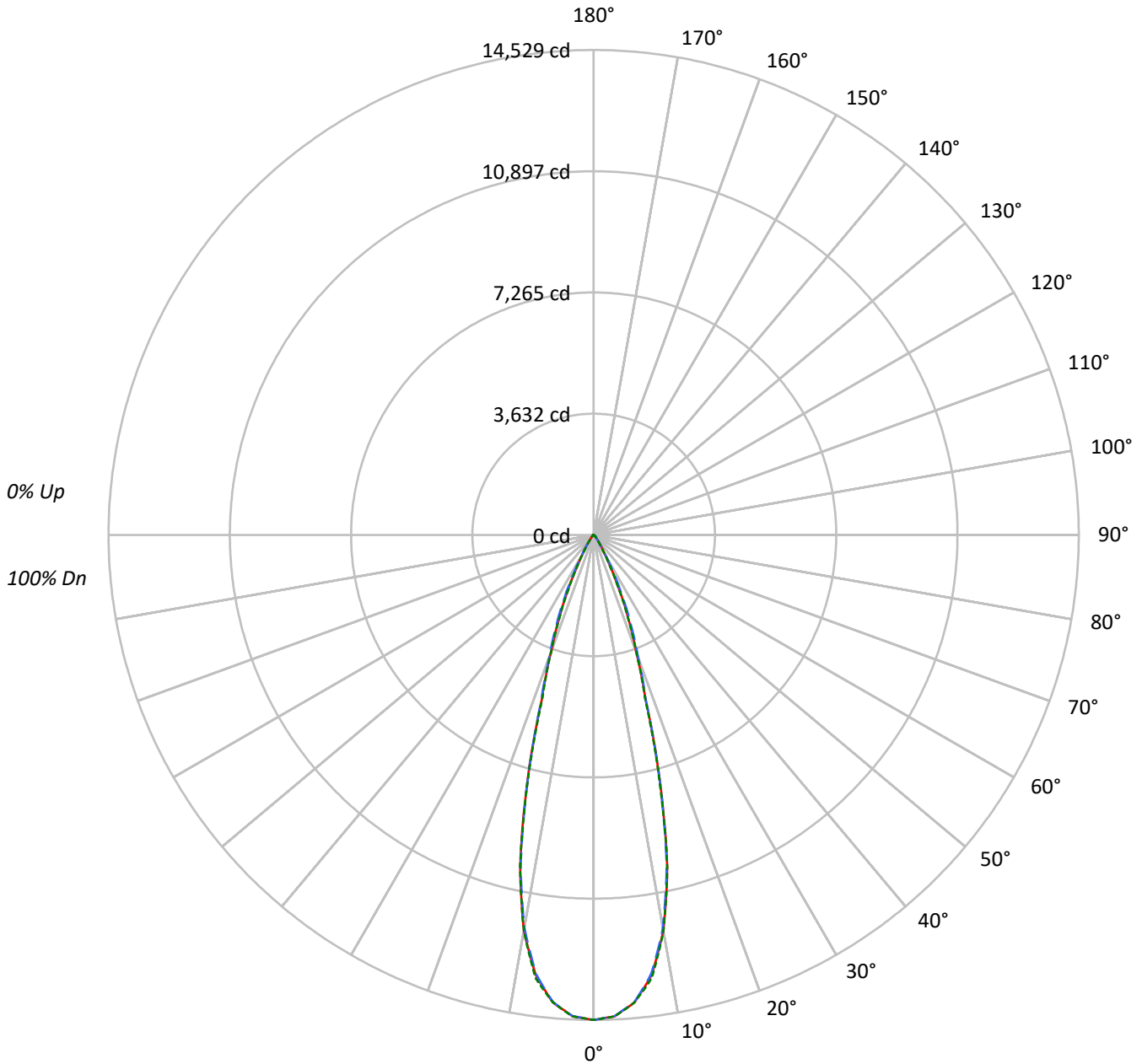
Input Watts (W): 58.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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	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°	1112130	1112130	1112130
5°	1080203	1078943	1080265
10°	935621	929022	935403
15°	610445	607172	604113
20°	303545	314932	303138
25°	152908	172426	149775
30°	61224	66704	53340
35°	28397	27192	22800
40°	12260	13609	11551
45°	8649	10738	8725
50°	2977	7812	3144
55°	1708	3243	1815
60°	1194	1424	1194
65°	779	779	779
70°	470	313	470
75°	0	207	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 10738 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1277.6	28.3
10°-20°	2057.7	45.5
20°-30°	889.2	19.7
30°-40°	202.7	4.5
40°-50°	69.6	1.5
50°-60°	17.0	0.4
60°-70°	4.4	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°	4224.5	93.5
0°-40°	4427.1	98.0
0°-60°	4513.7	99.9
0°-90°	4518.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4518.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	14529	14529	14529	14529	14529	
5°	14059	14045	14042	14072	14059	1279
15°	7703	7611	7662	7637	7624	2063
25°	1810	1879	2042	1831	1773	867
35°	304	310	291	289	244	206
45°	80	99	99	99	81	57
55°	13	14	24	14	14	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	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	14529.4	14529.4	14529.4	14529.4	14529.4
2.5°	14433.1	14423.2	14428.9	14436.0	14438.9
5°	14058.6	14045.1	14042.2	14071.5	14059.4
7.5°	13303.2	13283.9	13254.7	13321.0	13383.1
10°	12037.7	12016.3	11952.8	11984.2	12034.9
12.5°	10169.5	10100.3	10098.9	10198.7	10185.2
15°	7703.4	7610.7	7662.1	7637.1	7623.5
17.5°	5180.3	5144.7	5213.1	5192.5	5103.3
20°	3726.5	3735.8	3866.3	3800.7	3721.5
22.5°	2719.3	2752.8	2907.6	2738.5	2676.5
25°	1810.5	1879.0	2041.6	1831.2	1773.4
27.5°	1113.5	1144.9	1309.7	1099.3	1067.9
30°	692.7	677.0	754.7	647.7	603.5
32.5°	454.4	434.4	459.4	412.3	376.6
35°	303.9	310.3	291.0	288.9	244.0
37.5°	189.8	218.3	192.6	205.4	156.9
40°	122.7	158.4	136.2	150.5	115.6
42.5°	100.6	122.0	112.0	119.1	102.7
45°	79.9	99.2	99.2	99.2	80.6
47.5°	44.2	66.3	84.9	67.8	47.1
50°	25.0	33.5	65.6	35.0	26.4
52.5°	17.1	19.3	44.9	20.0	17.8
55°	12.8	13.6	24.3	14.3	13.6
57.5°	10.0	10.7	12.8	10.7	10.0
60°	7.8	7.8	9.3	8.6	7.8
62.5°	5.7	5.7	6.4	5.7	5.7
65°	4.3	4.3	4.3	4.3	4.3
67.5°	2.1	2.9	2.9	2.9	2.9
70°	2.1	1.4	1.4	1.4	2.1
72.5°	1.4	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

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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