

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: P749875

Luminaire Tested: LD4D55D010-EU4DR3055659024-4LBS1MW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P749875  
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-EU4DR3055659024-4LBS1MW  
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4581.1 lumens  
Efficiency: N/A  
Efficacy: 78.7 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

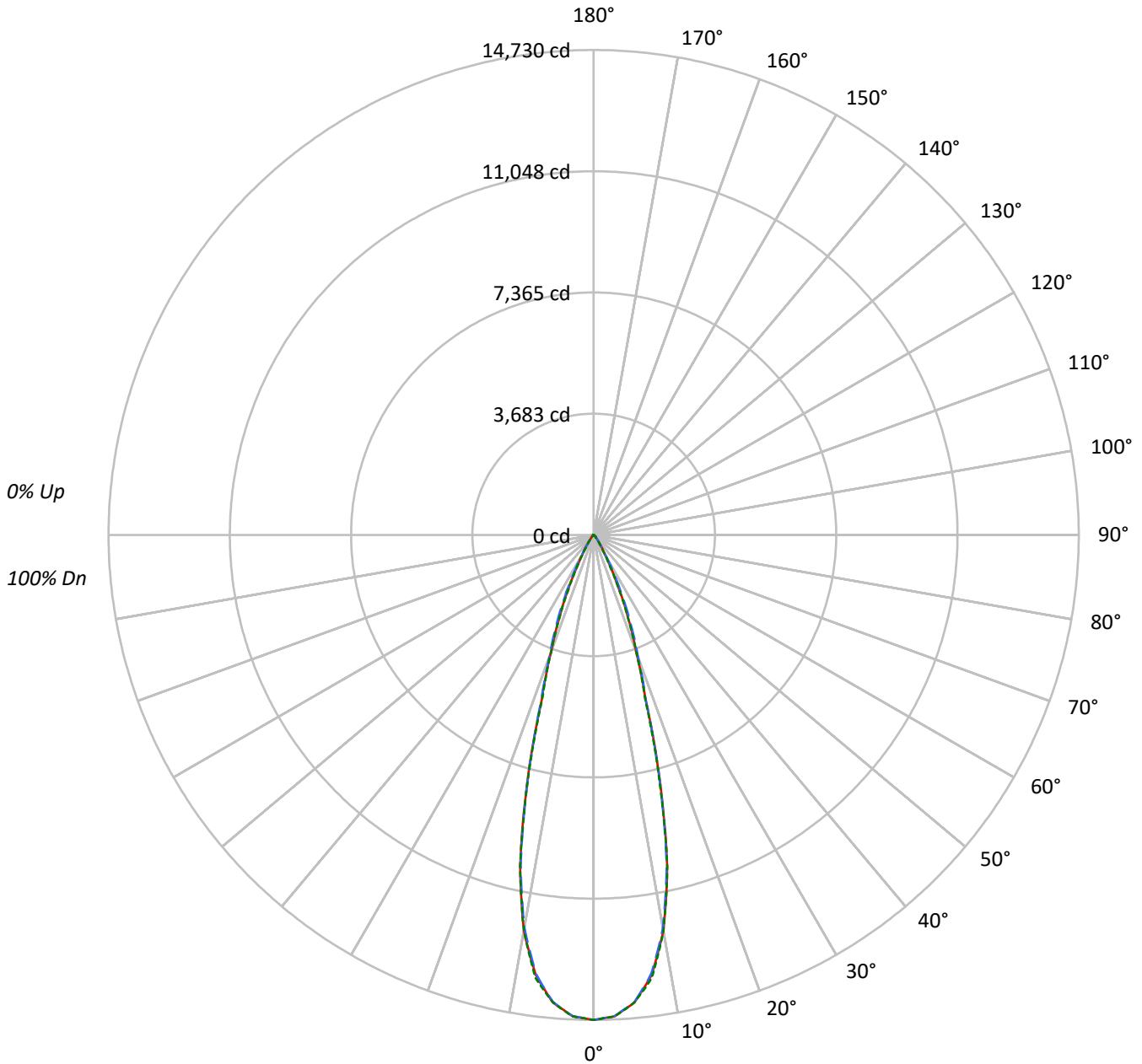
Input Watts (W): 58.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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					70					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°	1127522	1127522	1127522
5°	1095156	1093873	1095210
10°	948569	941877	948344
15°	618892	615572	612473
20°	307748	319290	307333
25°	155020	174808	151844
30°	62064	67632	54074
35°	28790	27575	23108
40°	12430	13799	11711
45°	8768	10879	8844
50°	3013	7919	3191
55°	1735	3283	1828
60°	1225	1439	1225
65°	779	779	779
70°	492	313	492
75°	0	207	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 10879 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1295.3	28.3
10°-20°	2086.1	45.5
20°-30°	901.5	19.7
30°-40°	205.5	4.5
40°-50°	70.5	1.5
50°-60°	17.2	0.4
60°-70°	4.5	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°	4282.9	93.5
0°-40°	4488.4	98.0
0°-60°	4576.2	99.9
0°-90°	4581.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4581.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	14730	14730	14730	14730	14730	
5°	14253	14239	14236	14266	14254	1296
15°	7810	7716	7768	7743	7729	2091
25°	1836	1905	2070	1856	1798	879
35°	308	315	295	293	247	209
45°	81	100	100	100	82	57
55°	13	14	25	14	14	13
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°	14730.5	14730.5	14730.5	14730.5	14730.5
2.5°	14632.8	14622.7	14628.5	14635.7	14638.6
5°	14253.2	14239.4	14236.5	14266.2	14253.9
7.5°	13487.3	13467.7	13438.1	13505.4	13568.3
10°	12204.3	12182.6	12118.2	12150.0	12201.4
12.5°	10310.2	10240.0	10238.6	10339.8	10326.1
15°	7810.0	7716.0	7768.1	7742.8	7729.0
17.5°	5252.0	5215.8	5285.3	5264.3	5173.9
20°	3778.1	3787.5	3919.8	3853.3	3773.0
22.5°	2756.9	2790.9	2947.8	2776.4	2713.5
25°	1835.5	1905.0	2069.8	1856.5	1797.9
27.5°	1128.9	1160.8	1327.8	1114.5	1082.7
30°	702.2	686.3	765.2	656.7	611.8
32.5°	460.7	440.4	465.8	418.0	381.9
35°	308.1	314.6	295.1	292.9	247.3
37.5°	192.4	221.3	195.3	208.3	159.1
40°	124.4	160.6	138.1	152.6	117.2
42.5°	102.0	123.7	113.5	120.8	104.1
45°	81.0	100.5	100.5	100.5	81.7
47.5°	44.8	67.3	86.1	68.7	47.7
50°	25.3	34.0	66.5	35.4	26.8
52.5°	17.4	19.5	45.6	20.3	18.1
55°	13.0	13.7	24.6	14.5	13.7
57.5°	10.1	10.8	13.0	10.8	10.1
60°	8.0	8.0	9.4	8.7	8.0
62.5°	5.8	5.8	6.5	5.8	5.8
65°	4.3	4.3	4.3	4.3	4.3
67.5°	2.2	2.9	2.9	2.9	2.9
70°	2.2	1.4	1.4	1.4	2.2
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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