

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: P750683

Luminaire Tested: LD4D60D010-EU4DR3055659030-4LBSQW1MW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P750683  
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: LD4D60D010-EU4DR3055659030-4LBSQW1MW  
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4939.8 lumens  
Efficiency: N/A  
Efficacy: 76.7 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

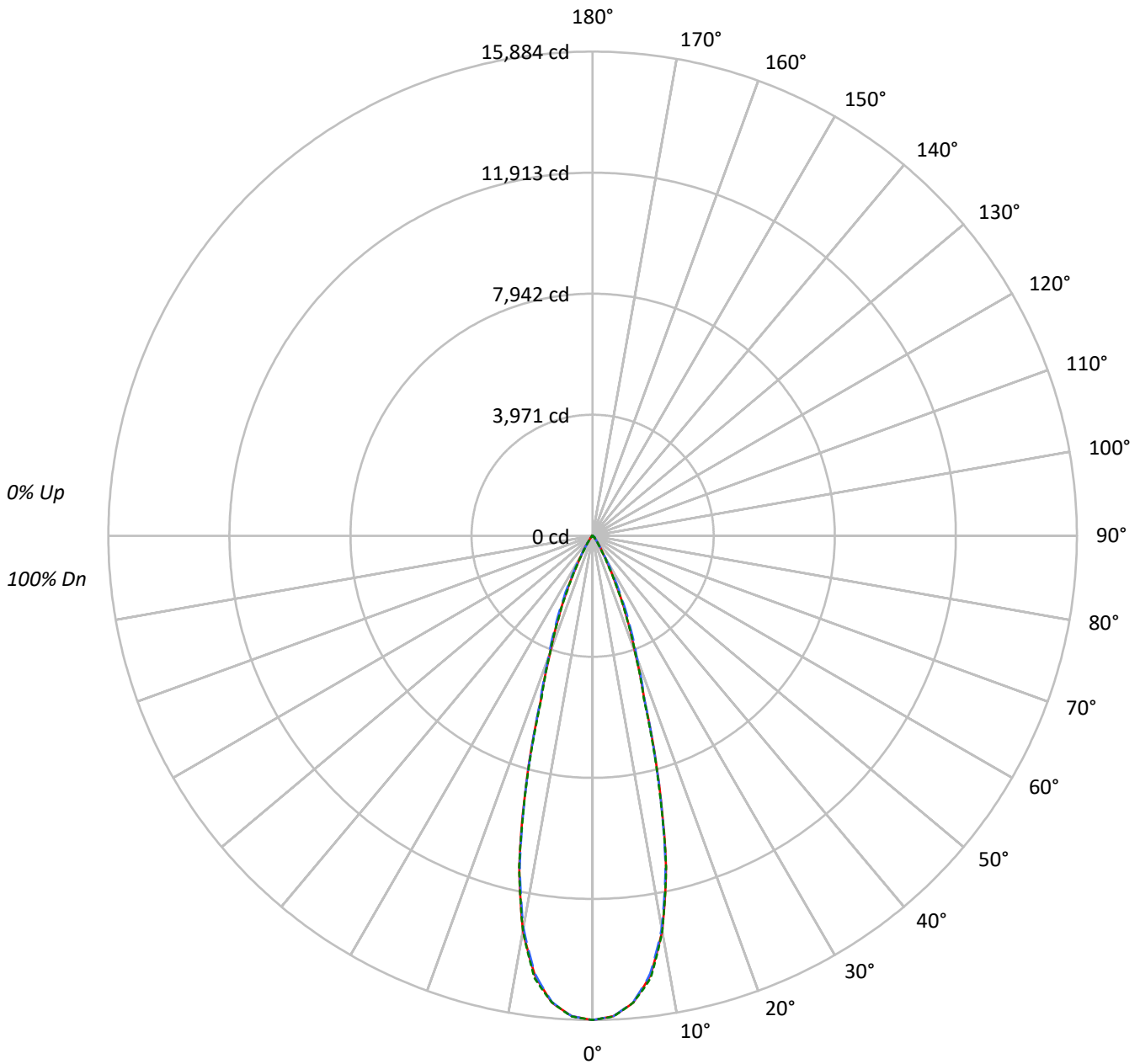
Input Watts (W): 64.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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						100													
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96						96													
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92						92													
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89						89													
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85						85													
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82						82													
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79						79													
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77						77													
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74						74													
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72						72													
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69						69													

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1215800	1215800	1215800
5°	1180897	1179514	1180958
10°	1022835	1015622	1022594
15°	667350	663768	660424
20°	331843	344289	331395
25°	167156	188498	163735
30°	66925	72926	58307
35°	31042	29733	24921
40°	13399	14878	12620
45°	9450	11734	9537
50°	3251	8538	3441
55°	1868	3536	1975
60°	1317	1546	1317
65°	851	851	851
70°	515	358	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: 11734 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1396.7	28.3
10°-20°	2249.5	45.5
20°-30°	972.0	19.7
30°-40°	221.5	4.5
40°-50°	76.1	1.5
50°-60°	18.6	0.4
60°-70°	4.8	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°	4618.2	93.5
0°-40°	4839.8	98.0
0°-60°	4934.4	99.9
0°-90°	4939.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4939.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	15884	15884	15884	15884	15884	
5°	15369	15354	15351	15383	15370	1398
15°	8422	8320	8376	8349	8334	2255
25°	1979	2054	2232	2002	1939	947
35°	332	339	318	316	267	225
45°	87	108	108	108	88	62
55°	14	15	26	16	15	14
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°	15883.8	15883.8	15883.8	15883.8	15883.8
2.5°	15778.5	15767.6	15773.8	15781.6	15784.7
5°	15369.1	15354.3	15351.1	15383.1	15369.9
7.5°	14543.2	14522.2	14490.2	14562.7	14630.6
10°	13159.8	13136.4	13067.0	13101.3	13156.7
12.5°	11117.4	11041.7	11040.2	11149.4	11134.5
15°	8421.5	8320.1	8376.3	8349.0	8334.1
17.5°	5663.2	5624.2	5699.1	5676.5	5579.0
20°	4073.9	4084.0	4226.7	4155.0	4068.4
22.5°	2972.7	3009.4	3178.6	2993.8	2926.0
25°	1979.2	2054.1	2231.9	2001.8	1938.7
27.5°	1217.3	1251.6	1431.8	1201.7	1167.4
30°	757.2	740.1	825.1	708.1	659.7
32.5°	496.8	474.9	502.2	450.7	411.8
35°	332.2	339.2	318.2	315.8	266.7
37.5°	207.4	238.6	210.6	224.6	171.6
40°	134.1	173.1	148.9	164.5	126.3
42.5°	110.0	133.4	122.4	130.2	112.3
45°	87.3	108.4	108.4	108.4	88.1
47.5°	48.4	72.5	92.8	74.1	51.5
50°	27.3	36.7	71.7	38.2	28.9
52.5°	18.7	21.1	49.1	21.8	19.5
55°	14.0	14.8	26.5	15.6	14.8
57.5°	10.9	11.7	14.0	11.7	10.9
60°	8.6	8.6	10.1	9.4	8.6
62.5°	6.2	6.2	7.0	6.2	6.2
65°	4.7	4.7	4.7	4.7	4.7
67.5°	2.3	3.1	3.1	3.1	3.1
70°	2.3	1.6	1.6	1.6	2.3
72.5°	1.6	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

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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