

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: P750671

Luminaire Tested: LD4D60D010-EU4DR3055659030-4LBCSSQMB

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P750671  
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-EU4DR3055659030-4LBCSSQMB  
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

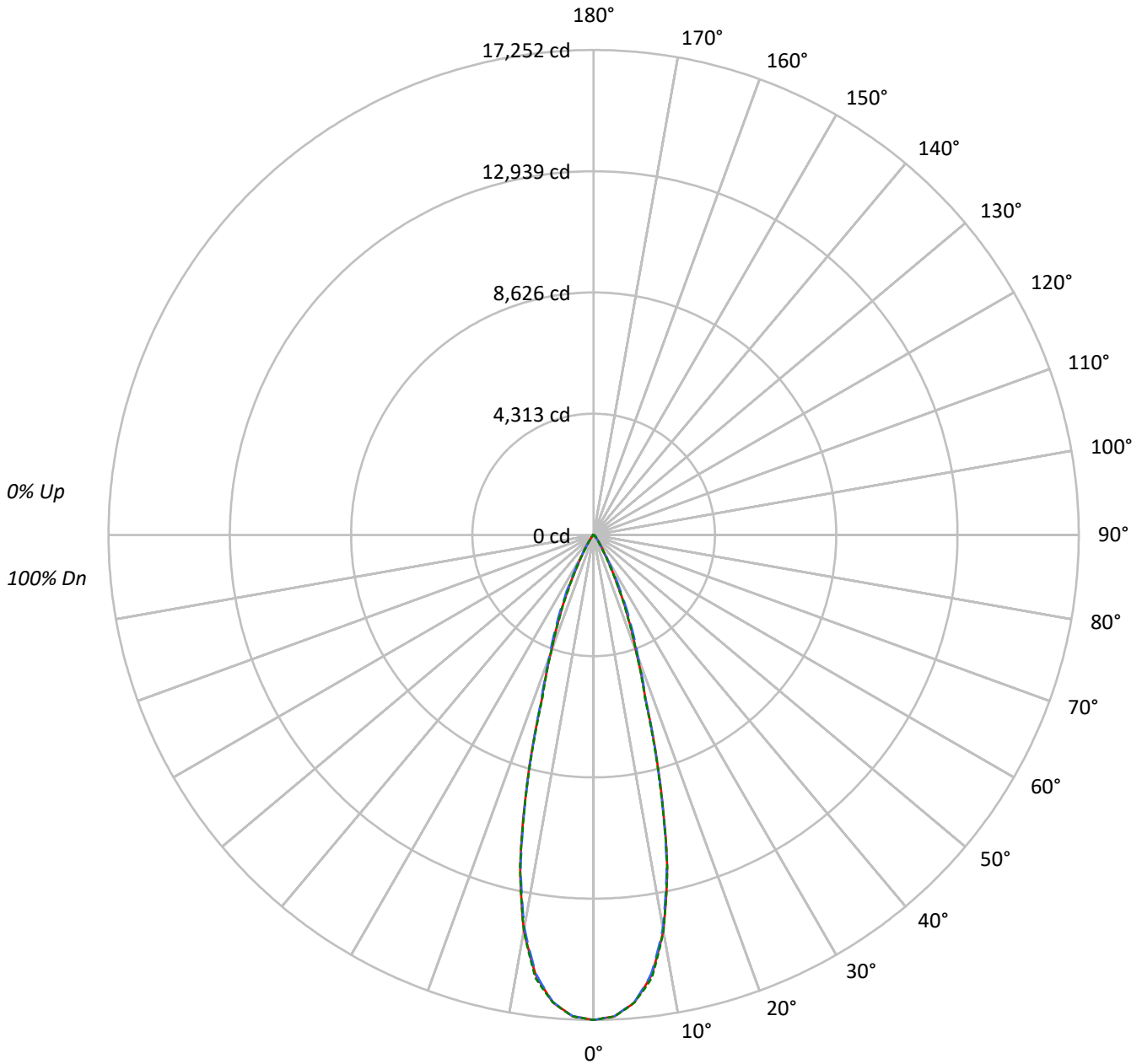
Lumens per Lamp: N/A  
Luminaire Lumens: 5365.4 lumens  
Efficiency: N/A  
Efficacy: 83.3 lumens/watt  
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49  
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')  
CIE Type: Direct

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																			
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°	1320565	1320565	1320565
5°	1282650	1281152	1282720
10°	1110974	1103140	1110710
15°	724857	720958	717336
20°	360434	373955	359953
25°	181564	204739	177840
30°	72696	79210	63336
35°	33714	32294	27070
40°	14558	16167	13709
45°	10273	12741	10359
50°	3525	9276	3727
55°	2028	3843	2149
60°	1424	1684	1424
65°	924	924	924
70°	559	380	559
75°	0	237	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 12741 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1517.1	28.3
10°-20°	2443.3	45.5
20°-30°	1055.8	19.7
30°-40°	240.6	4.5
40°-50°	82.6	1.5
50°-60°	20.2	0.4
60°-70°	5.2	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°	5016.2	93.5
0°-40°	5256.8	98.0
0°-60°	5359.6	99.9
0°-90°	5365.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5365.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	17252	17252	17252	17252	17252	
5°	16693	16677	16674	16709	16694	1518
15°	9147	9037	9098	9068	9052	2449
25°	2150	2231	2424	2174	2106	1029
35°	361	368	346	343	290	245
45°	95	118	118	118	96	67
55°	15	16	29	17	16	15
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°	17252.5	17252.5	17252.5	17252.5	17252.5
2.5°	17138.1	17126.2	17133.0	17141.5	17144.9
5°	16693.4	16677.3	16673.9	16708.7	16694.3
7.5°	15796.4	15773.5	15738.8	15817.6	15891.3
10°	14293.8	14268.3	14193.0	14230.2	14290.4
12.5°	12075.4	11993.2	11991.5	12110.1	12094.0
15°	9147.2	9037.0	9098.0	9068.4	9052.3
17.5°	6151.2	6108.8	6190.1	6165.6	6059.7
20°	4424.9	4435.9	4590.9	4513.0	4419.0
22.5°	3228.9	3268.7	3452.5	3251.8	3178.1
25°	2149.8	2231.1	2424.2	2174.3	2105.7
27.5°	1322.2	1359.5	1555.2	1305.3	1268.0
30°	822.5	803.8	896.2	769.1	716.6
32.5°	539.6	515.8	545.5	489.6	447.2
35°	360.8	368.5	345.6	343.1	289.7
37.5°	225.3	259.2	228.7	243.9	186.3
40°	145.7	188.0	161.8	178.7	137.2
42.5°	119.4	144.8	133.0	141.5	122.0
45°	94.9	117.7	117.7	117.7	95.7
47.5°	52.5	78.8	100.8	80.5	55.9
50°	29.6	39.8	77.9	41.5	31.3
52.5°	20.3	22.9	53.4	23.7	21.2
55°	15.2	16.1	28.8	16.9	16.1
57.5°	11.9	12.7	15.2	12.7	11.9
60°	9.3	9.3	11.0	10.2	9.3
62.5°	6.8	6.8	7.6	6.8	6.8
65°	5.1	5.1	5.1	5.1	5.1
67.5°	2.5	3.4	3.4	3.4	3.4
70°	2.5	1.7	1.7	1.7	2.5
72.5°	1.7	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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