

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: P750697

Luminaire Tested: LD4D60D010-EU4DR3055659040-4LBCSSQMB

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P750697  
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-EU4DR3055659040-4LBCSSQMB  
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

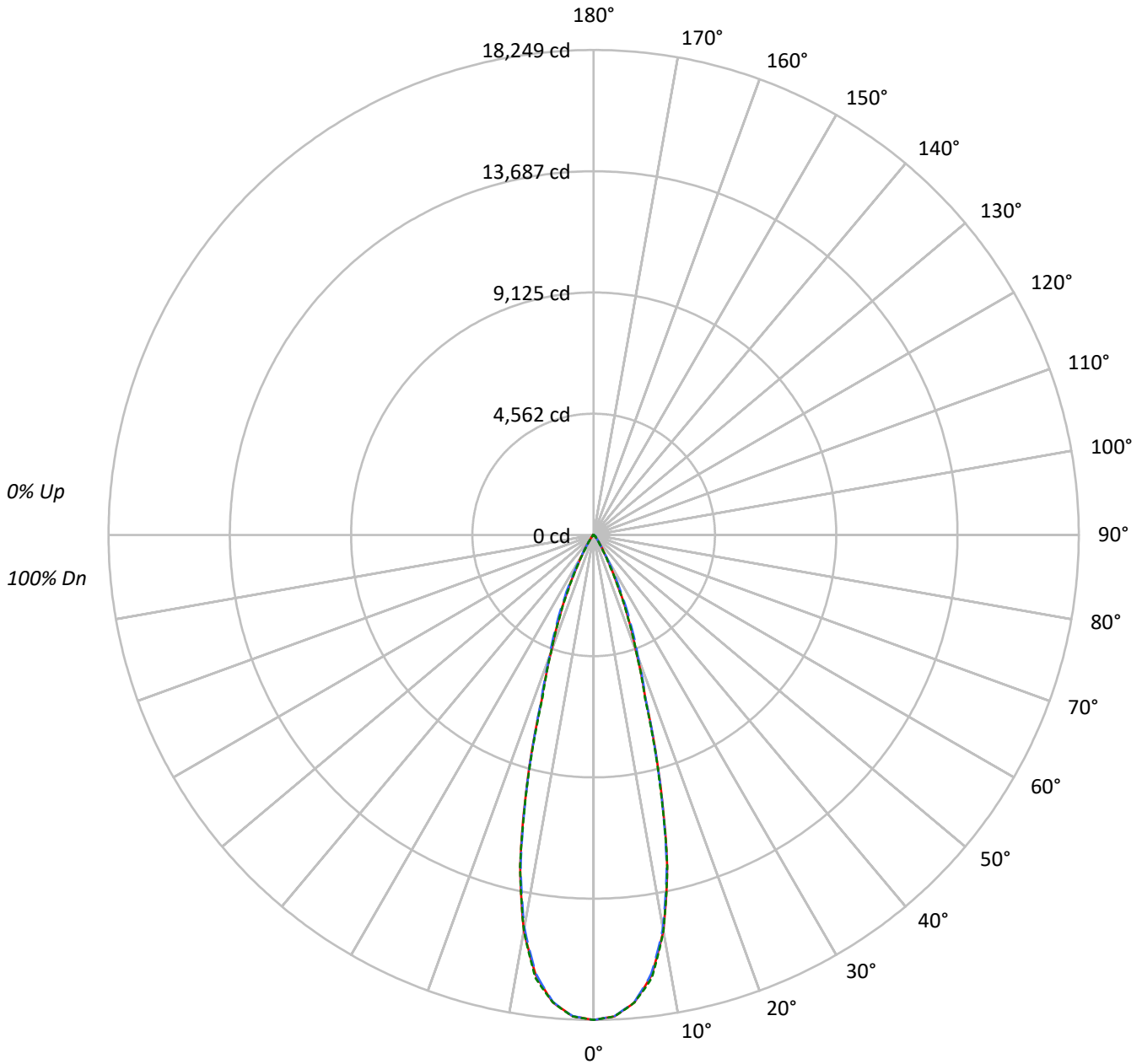
Lumens per Lamp: N/A  
Luminaire Lumens: 5675.4 lumens  
Efficiency: N/A  
Efficacy: 88.1 lumens/watt  
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49  
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')  
CIE Type: Direct

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	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°	1396863	1396863	1396863
5°	1356759	1355176	1356828
10°	1175159	1166873	1174879
15°	766737	762616	758781
20°	381262	395566	380749
25°	192054	216571	188118
30°	76895	83780	66996
35°	35667	34162	28631
40°	15398	17096	14498
45°	10857	13477	10955
50°	3739	9812	3953
55°	2149	4070	2269
60°	1516	1776	1516
65°	978	978	978
70°	604	403	604
75°	0	266	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 13477 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1604.7	28.3
10°-20°	2584.5	45.5
20°-30°	1116.8	19.7
30°-40°	254.5	4.5
40°-50°	87.4	1.5
50°-60°	21.3	0.4
60°-70°	5.6	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°	5306.0	93.5
0°-40°	5560.6	98.0
0°-60°	5669.3	99.9
0°-90°	5675.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5675.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	18249	18249	18249	18249	18249	
5°	17658	17641	17637	17674	17659	1606
15°	9676	9559	9624	9592	9575	2591
25°	2274	2360	2564	2300	2227	1088
35°	382	390	366	363	306	259
45°	100	124	124	124	101	71
55°	16	17	30	18	17	16
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°	18249.3	18249.3	18249.3	18249.3	18249.3
2.5°	18128.3	18115.8	18122.9	18131.9	18135.5
5°	17657.9	17640.9	17637.3	17674.0	17658.8
7.5°	16709.1	16684.9	16648.2	16731.5	16809.4
10°	15119.6	15092.7	15013.0	15052.4	15116.0
12.5°	12773.0	12686.1	12684.3	12809.8	12792.8
15°	9675.7	9559.2	9623.7	9592.3	9575.3
17.5°	6506.6	6461.8	6547.8	6521.8	6409.8
20°	4680.6	4692.2	4856.2	4773.8	4674.3
22.5°	3415.5	3457.6	3652.0	3439.7	3361.7
25°	2274.0	2360.0	2564.3	2300.0	2227.4
27.5°	1398.6	1438.0	1645.0	1380.7	1341.3
30°	870.0	850.3	947.9	813.5	758.0
32.5°	570.7	545.7	577.0	517.9	473.1
35°	381.7	389.8	365.6	362.9	306.4
37.5°	238.3	274.2	241.9	258.0	197.1
40°	154.1	198.9	171.1	189.1	145.1
42.5°	126.3	153.2	140.7	149.6	129.0
45°	100.3	124.5	124.5	124.5	101.2
47.5°	55.6	83.3	106.6	85.1	59.1
50°	31.4	42.1	82.4	43.9	33.2
52.5°	21.5	24.2	56.4	25.1	22.4
55°	16.1	17.0	30.5	17.9	17.0
57.5°	12.5	13.4	16.1	13.4	12.5
60°	9.9	9.9	11.6	10.8	9.9
62.5°	7.2	7.2	8.1	7.2	7.2
65°	5.4	5.4	5.4	5.4	5.4
67.5°	2.7	3.6	3.6	3.6	3.6
70°	2.7	1.8	1.8	1.8	2.7
72.5°	1.8	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

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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