

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: P749150

Luminaire Tested: LD4D50D010-EU4DR3040509050-4LBCSSQMB

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P749150  
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: LD4D50D010-EU4DR3040509050-4LBCSSQMB  
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

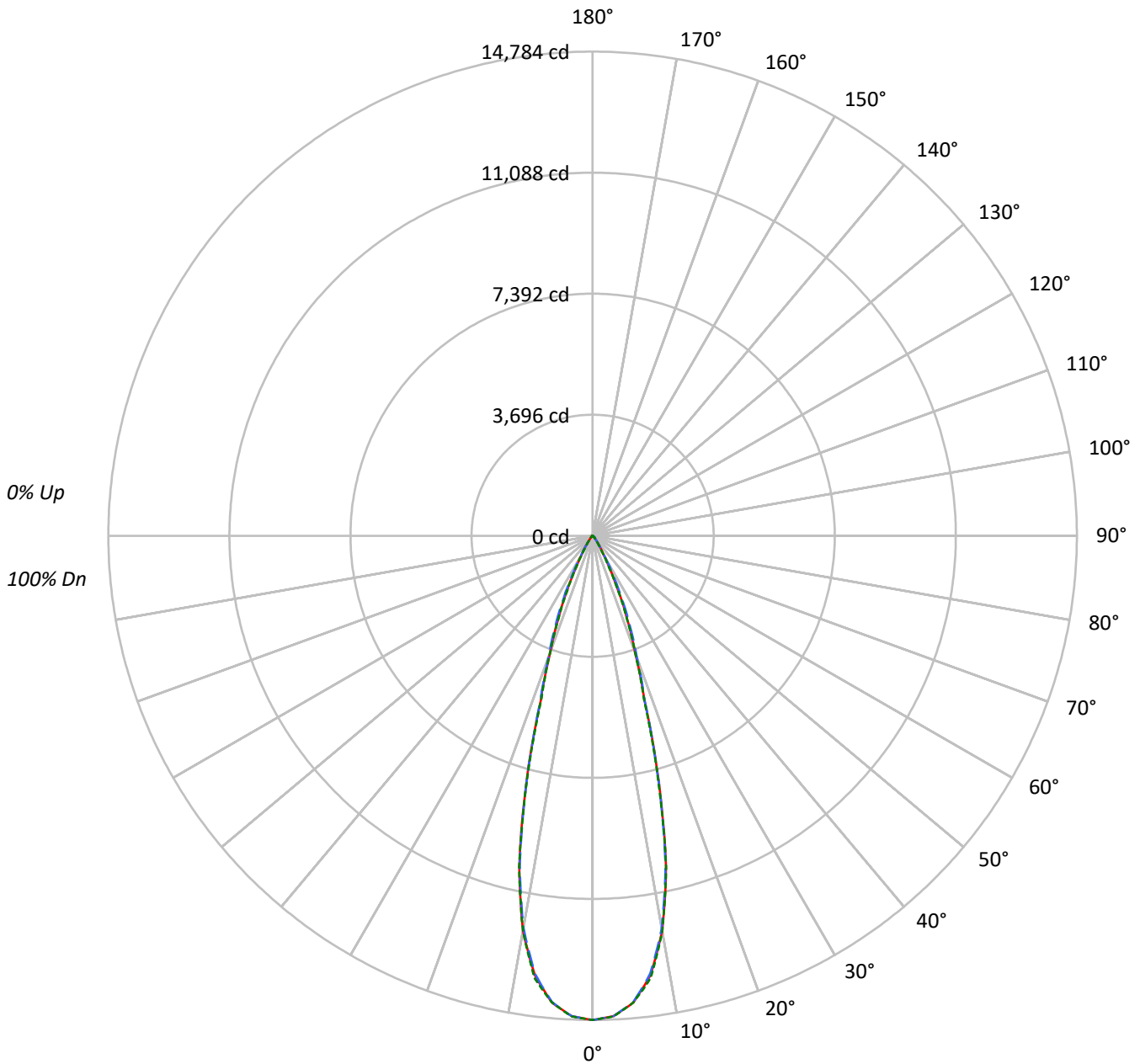
Lumens per Lamp: N/A  
Luminaire Lumens: 4597.6 lumens  
Efficiency: N/A  
Efficacy: 97.8 lumens/watt  
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49  
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')  
CIE Type: Direct

Input Watts (W): 47  
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°	1131579	1131579	1131579
5°	1099090	1097807	1099151
10°	951982	945266	951756
15°	621119	617783	614676
20°	308856	320439	308440
25°	155577	175441	152393
30°	62294	67871	54268
35°	28892	27668	23192
40°	12470	13849	11751
45°	8801	10922	8876
50°	3025	7955	3203
55°	1748	3296	1842
60°	1225	1439	1225
65°	797	797	797
70°	492	336	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: 10922 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1300.0	28.3
10°-20°	2093.6	45.5
20°-30°	904.7	19.7
30°-40°	206.2	4.5
40°-50°	70.8	1.5
50°-60°	17.3	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°	4298.3	93.5
0°-40°	4504.5	98.0
0°-60°	4592.6	99.9
0°-90°	4597.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4597.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	14784	14784	14784	14784	14784	
5°	14304	14291	14288	14318	14305	1301
15°	7838	7744	7796	7771	7757	2099
25°	1842	1912	2077	1863	1804	882
35°	309	316	296	294	248	210
45°	81	101	101	101	82	58
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°	14783.5	14783.5	14783.5	14783.5	14783.5
2.5°	14685.5	14675.3	14681.1	14688.4	14691.3
5°	14304.4	14290.6	14287.7	14317.5	14305.2
7.5°	13535.8	13516.2	13486.4	13553.9	13617.1
10°	12248.2	12226.4	12161.8	12193.7	12245.3
12.5°	10347.3	10276.9	10275.4	10377.0	10363.2
15°	7838.1	7743.8	7796.0	7770.6	7756.8
17.5°	5270.9	5234.6	5304.3	5283.2	5192.5
20°	3791.7	3801.1	3933.9	3867.2	3786.6
22.5°	2766.8	2800.9	2958.4	2786.4	2723.3
25°	1842.1	1911.8	2077.3	1863.2	1804.4
27.5°	1133.0	1164.9	1332.6	1118.5	1086.6
30°	704.8	688.8	767.9	659.0	614.0
32.5°	462.3	442.0	467.4	419.5	383.2
35°	309.2	315.7	296.1	294.0	248.2
37.5°	193.1	222.1	196.0	209.0	159.7
40°	124.8	161.1	138.6	153.1	117.6
42.5°	102.3	124.1	114.0	121.2	104.5
45°	81.3	100.9	100.9	100.9	82.0
47.5°	45.0	67.5	86.4	69.0	47.9
50°	25.4	34.1	66.8	35.6	26.9
52.5°	17.4	19.6	45.7	20.3	18.1
55°	13.1	13.8	24.7	14.5	13.8
57.5°	10.2	10.9	13.1	10.9	10.2
60°	8.0	8.0	9.4	8.7	8.0
62.5°	5.8	5.8	6.5	5.8	5.8
65°	4.4	4.4	4.4	4.4	4.4
67.5°	2.2	2.9	2.9	2.9	2.9
70°	2.2	1.5	1.5	1.5	2.2
72.5°	1.5	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

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Scaled Data Report







— 0°-180°    - - 45°-225°    - - - - 90°-270°

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