

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: P749137

Luminaire Tested: LD4D50D010-EU4DR3040509040-4LBCSSQMB

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749137
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-EU4DR3040509040-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

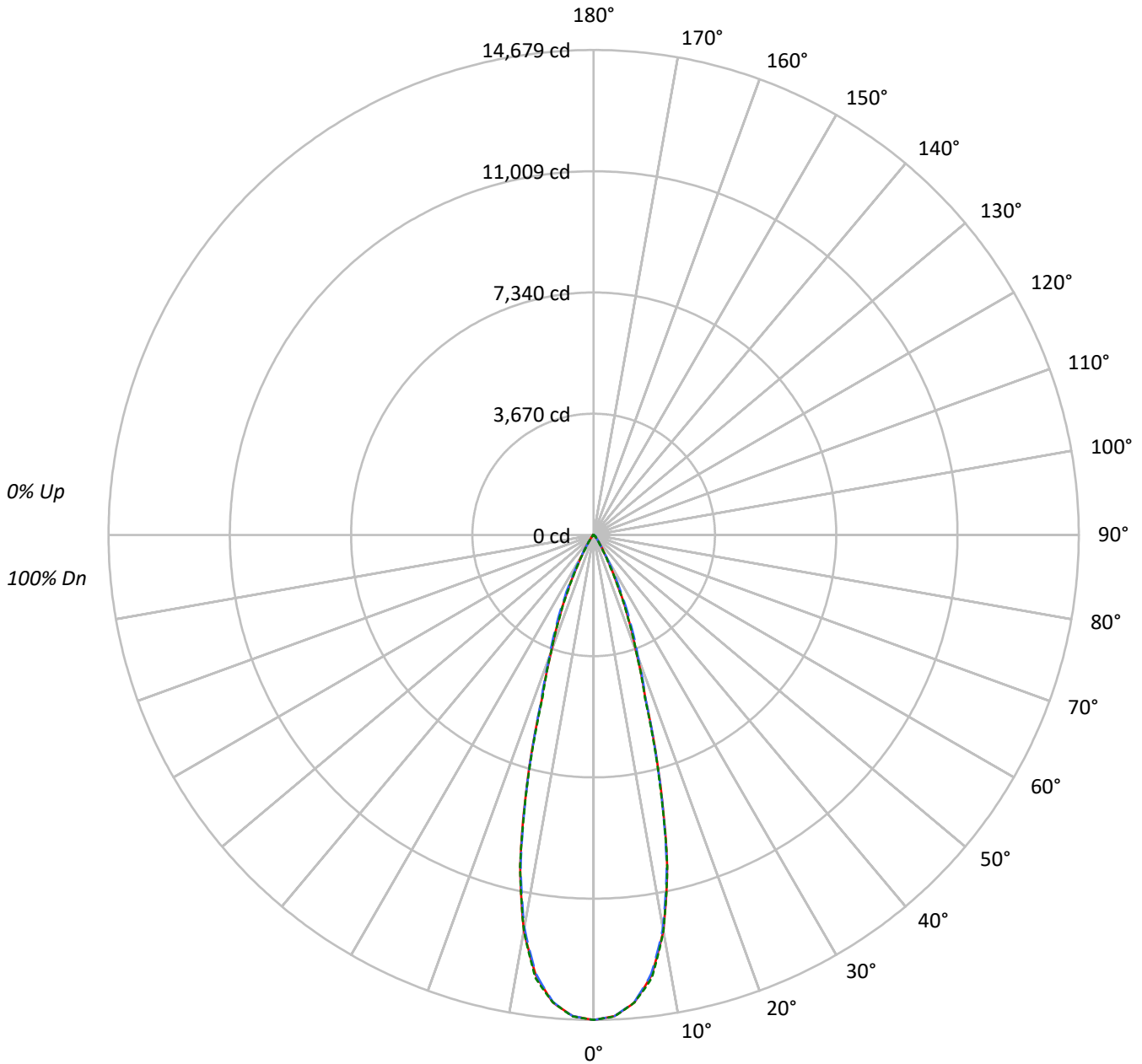
Lumens per Lamp: N/A
Luminaire Lumens: 4565.0 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	1123550	1123550	1123550
5°	1091299	1090023	1091352
10°	945227	938566	945002
15°	616713	613401	610318
20°	306665	318166	306249
25°	154479	174200	151312
30°	61852	67393	53888
35°	28687	27472	23034
40°	12390	13749	11661
45°	8736	10847	8811
50°	3001	7895	3179
55°	1735	3270	1828
60°	1209	1439	1209
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: 10847 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1290.8	28.3
10°-20°	2078.8	45.5
20°-30°	898.3	19.7
30°-40°	204.7	4.5
40°-50°	70.3	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°	4267.9	93.5
0°-40°	4472.6	98.0
0°-60°	4560.1	99.9
0°-90°	4565.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4565.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14679	14679	14679	14679	14679	
5°	14203	14189	14186	14216	14204	1292
15°	7782	7689	7741	7716	7702	2084
25°	1829	1898	2063	1850	1792	876
35°	307	314	294	292	246	208
45°	81	100	100	100	81	57
55°	13	14	24	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°	14678.6	14678.6	14678.6	14678.6	14678.6
2.5°	14581.3	14571.2	14577.0	14584.2	14587.1
5°	14203.0	14189.3	14186.4	14216.0	14203.7
7.5°	13439.8	13420.3	13390.8	13457.8	13520.5
10°	12161.3	12139.7	12075.6	12107.3	12158.4
12.5°	10273.9	10204.0	10202.5	10303.4	10289.7
15°	7782.5	7688.8	7740.7	7715.5	7701.8
17.5°	5233.5	5197.5	5266.7	5245.8	5155.7
20°	3764.8	3774.2	3906.0	3839.7	3759.7
22.5°	2747.2	2781.1	2937.5	2766.7	2704.0
25°	1829.1	1898.2	2062.6	1850.0	1791.6
27.5°	1125.0	1156.7	1323.2	1110.6	1078.8
30°	699.8	683.9	762.5	654.4	609.7
32.5°	459.1	438.9	464.1	416.5	380.5
35°	307.0	313.5	294.0	291.9	246.5
37.5°	191.7	220.5	194.6	207.6	158.5
40°	124.0	160.0	137.6	152.1	116.7
42.5°	101.6	123.2	113.1	120.4	103.8
45°	80.7	100.2	100.2	100.2	81.4
47.5°	44.7	67.0	85.8	68.5	47.6
50°	25.2	33.9	66.3	35.3	26.7
52.5°	17.3	19.5	45.4	20.2	18.0
55°	13.0	13.7	24.5	14.4	13.7
57.5°	10.1	10.8	13.0	10.8	10.1
60°	7.9	7.9	9.4	8.6	7.9
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

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

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