

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: P749111

Luminaire Tested: LD4D50D010-EU4DR3040509030-4LBCSSQMB

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749111
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-EU4DR3040509030-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

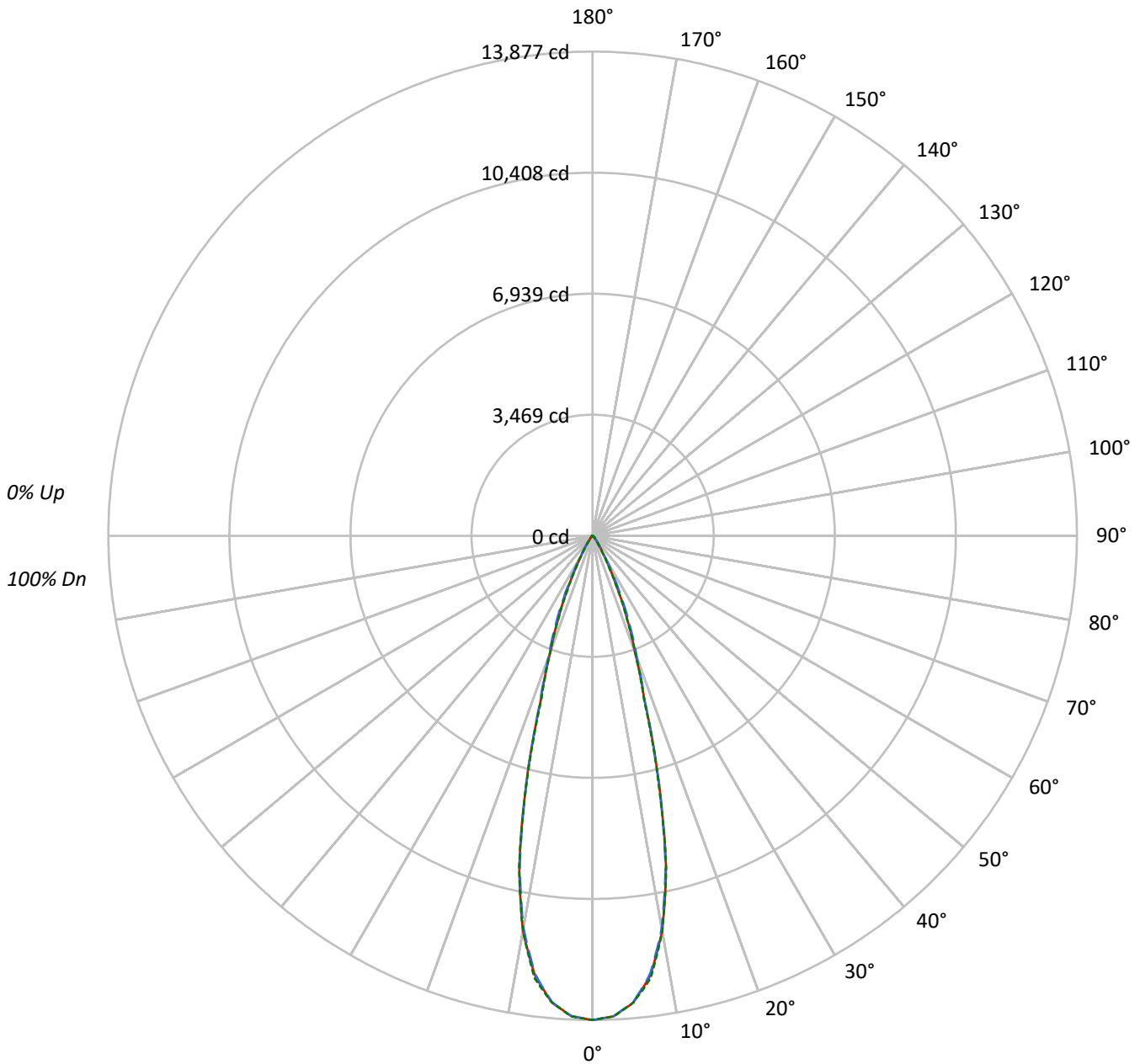
Lumens per Lamp: N/A
Luminaire Lumens: 4315.7 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

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	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°	1062177	1062177	1062177
5°	1031689	1030483	1031743
10°	893595	887299	893385
15°	583027	579896	576980
20°	289909	300792	289526
25°	146042	164681	143044
30°	58466	63708	50945
35°	27117	25977	21772
40°	11711	13000	11031
45°	8259	10251	8335
50°	2834	7466	3001
55°	1641	3096	1721
60°	1148	1362	1148
65°	743	743	743
70°	448	313	448
75°	0	207	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 10251 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1220.3	28.3
10°-20°	1965.2	45.5
20°-30°	849.2	19.7
30°-40°	193.6	4.5
40°-50°	66.5	1.5
50°-60°	16.2	0.4
60°-70°	4.2	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°	4034.7	93.5
0°-40°	4228.3	98.0
0°-60°	4311.0	99.9
0°-90°	4315.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4315.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13877	13877	13877	13877	13877	
5°	13427	13414	13412	13439	13428	1221
15°	7357	7269	7318	7294	7281	1970
25°	1729	1795	1950	1749	1694	828
35°	290	296	278	276	233	197
45°	76	95	95	95	77	54
55°	12	13	23	14	13	12
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°	13876.8	13876.8	13876.8	13876.8	13876.8
2.5°	13784.9	13775.3	13780.8	13787.6	13790.3
5°	13427.2	13414.2	13411.5	13439.4	13427.9
7.5°	12705.7	12687.3	12659.4	12722.7	12782.0
10°	11497.0	11476.6	11416.0	11445.9	11494.3
12.5°	9712.7	9646.6	9645.3	9740.6	9727.7
15°	7357.4	7268.9	7317.9	7294.1	7281.1
17.5°	4947.6	4913.6	4979.0	4959.2	4874.1
20°	3559.1	3568.0	3692.7	3630.0	3554.4
22.5°	2597.1	2629.2	2777.0	2615.5	2556.3
25°	1729.2	1794.6	1949.9	1748.9	1693.7
27.5°	1063.5	1093.5	1250.9	1049.9	1019.9
30°	661.5	646.6	720.8	618.6	576.4
32.5°	434.0	414.9	438.8	393.8	359.7
35°	290.2	296.4	278.0	275.9	233.0
37.5°	181.2	208.5	184.0	196.2	149.9
40°	117.2	151.3	130.1	143.8	110.4
42.5°	96.1	116.5	107.0	113.8	98.1
45°	76.3	94.7	94.7	94.7	77.0
47.5°	42.2	63.4	81.1	64.7	45.0
50°	23.8	32.0	62.7	33.4	25.2
52.5°	16.4	18.4	42.9	19.1	17.0
55°	12.3	12.9	23.2	13.6	12.9
57.5°	9.5	10.2	12.3	10.2	9.5
60°	7.5	7.5	8.9	8.2	7.5
62.5°	5.5	5.5	6.1	5.5	5.5
65°	4.1	4.1	4.1	4.1	4.1
67.5°	2.0	2.7	2.7	2.7	2.7
70°	2.0	1.4	1.4	1.4	2.0
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

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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