

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: P749085

Luminaire Tested: LD4D50D010-EU4DR3040509024-4LBCSSQMB

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749085
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-EU4DR3040509024-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

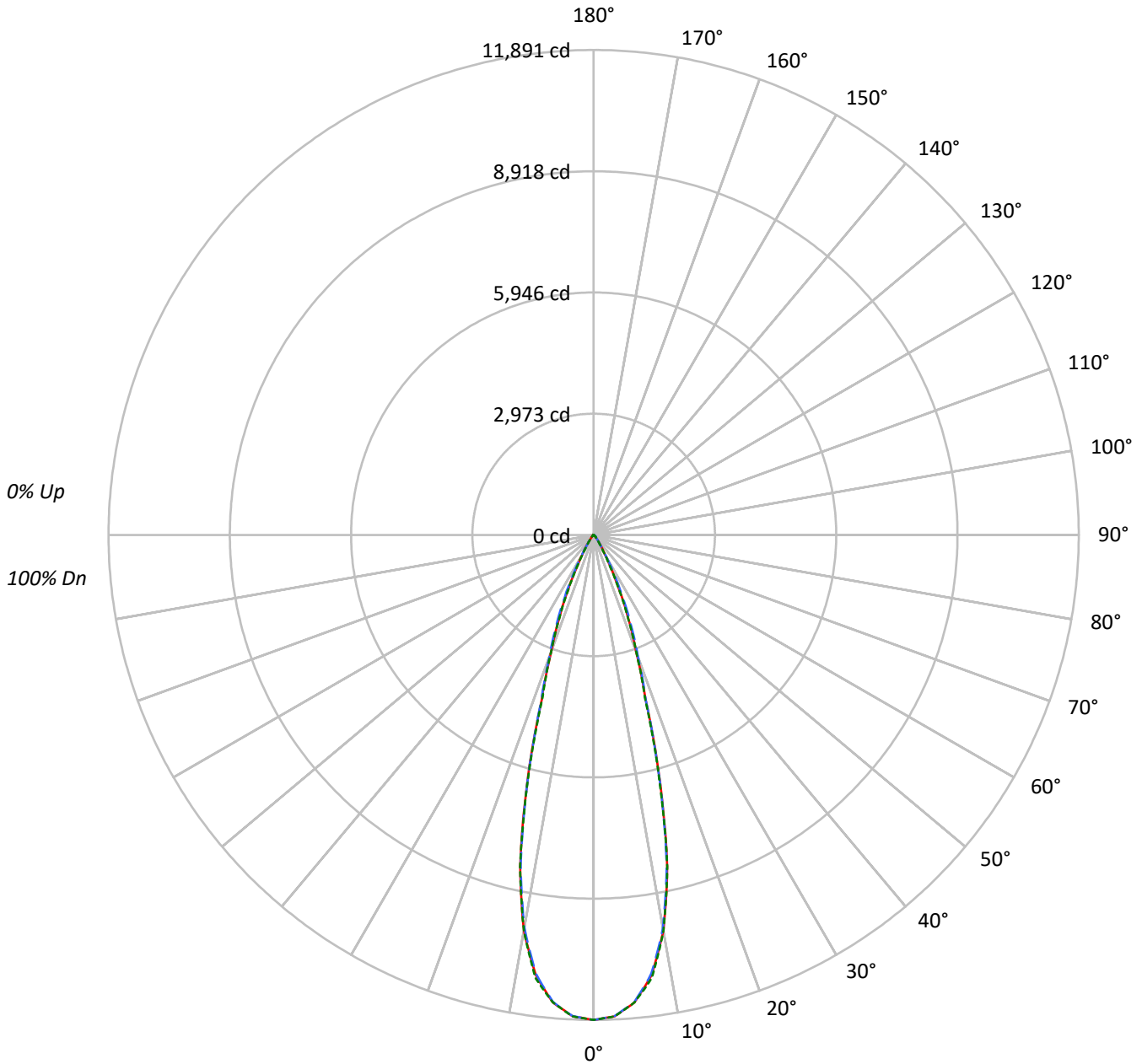
Lumens per Lamp: N/A
Luminaire Lumens: 3698.0 lumens
Efficiency: N/A
Efficacy: 78.7 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

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°	910170	910170	910170
5°	884042	883012	884088
10°	765716	760314	765537
15°	499591	496905	494408
20°	248424	257742	248090
25°	125139	141110	122571
30°	50105	54595	43653
35°	23239	22258	18660
40°	10032	11141	9452
45°	7079	8779	7144
50°	2429	6395	2572
55°	1401	2642	1481
60°	980	1163	980
65°	634	634	634
70°	403	269	403
75°	0	177	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 8779 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1045.6	28.3
10°-20°	1684.0	45.5
20°-30°	727.7	19.7
30°-40°	165.9	4.5
40°-50°	56.9	1.5
50°-60°	13.9	0.4
60°-70°	3.6	0.1
70°-80°	0.4	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°	3457.3	93.5
0°-40°	3623.2	98.0
0°-60°	3694.0	99.9
0°-90°	3698.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3698.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11891	11891	11891	11891	11891	
5°	11506	11494	11492	11516	11506	1046
15°	6304	6229	6271	6250	6239	1688
25°	1482	1538	1671	1499	1451	709
35°	249	254	238	236	200	169
45°	65	81	81	81	66	46
55°	10	11	20	12	11	10
65°	4	4	4	4	4	3
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°	11890.9	11890.9	11890.9	11890.9	11890.9
2.5°	11812.1	11803.9	11808.6	11814.4	11816.8
5°	11505.6	11494.5	11492.2	11516.1	11506.2
7.5°	10887.4	10871.6	10847.7	10902.0	10952.7
10°	9851.7	9834.2	9782.2	9807.9	9849.4
12.5°	8322.7	8266.1	8264.9	8346.6	8335.6
15°	6304.5	6228.6	6270.6	6250.2	6239.1
17.5°	4239.6	4210.4	4266.4	4249.5	4176.5
20°	3049.8	3057.4	3164.2	3110.5	3045.7
22.5°	2225.5	2252.9	2379.6	2241.2	2190.4
25°	1481.7	1537.7	1670.8	1498.6	1451.3
27.5°	911.3	937.0	1071.9	899.6	874.0
30°	566.9	554.0	617.7	530.1	493.9
32.5°	371.9	355.5	376.0	337.4	308.2
35°	248.7	254.0	238.2	236.4	199.7
37.5°	155.3	178.6	157.6	168.1	128.4
40°	100.4	129.6	111.5	123.2	94.6
42.5°	82.3	99.8	91.7	97.5	84.1
45°	65.4	81.1	81.1	81.1	66.0
47.5°	36.2	54.3	69.5	55.5	38.5
50°	20.4	27.4	53.7	28.6	21.6
52.5°	14.0	15.8	36.8	16.3	14.6
55°	10.5	11.1	19.8	11.7	11.1
57.5°	8.2	8.8	10.5	8.8	8.2
60°	6.4	6.4	7.6	7.0	6.4
62.5°	4.7	4.7	5.3	4.7	4.7
65°	3.5	3.5	3.5	3.5	3.5
67.5°	1.8	2.3	2.3	2.3	2.3
70°	1.8	1.2	1.2	1.2	1.8
72.5°	1.2	0.6	0.6	0.6	0.6
75°	0.0	0.0	0.6	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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