

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: P747590

Luminaire Tested: LD4D40BD010-EU4DR3040509050-4LBCSSQMB

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P747590
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: LD4D40BD010-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: 3573.9 lumens
Efficiency: N/A
Efficacy: 101.5 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

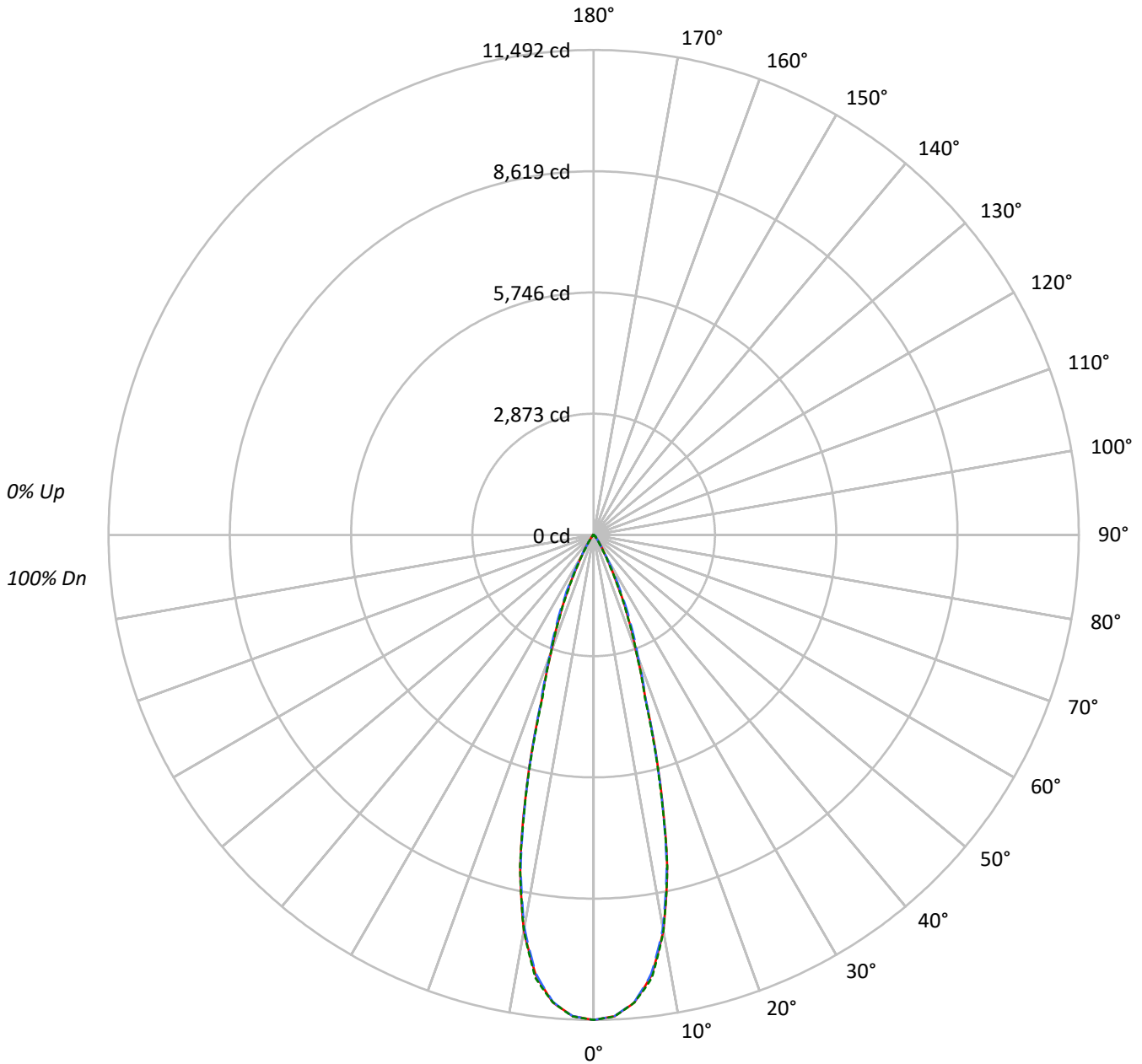
Input Watts (W): 35.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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						100													
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96						96													
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92						92													
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89						89													
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85						85													
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82						82													
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79						79													
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77						77													
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74						74													
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72						72													
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69						69													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	879621	879621	879621
5°	854368	853377	854414
10°	740012	734797	739841
15°	482823	480232	477815
20°	240083	249092	239765
25°	120941	136380	118458
30°	48417	52757	42186
35°	22464	21510	18034
40°	9692	10771	9133
45°	6841	8487	6906
50°	2346	6180	2489
55°	1361	2562	1428
60°	949	1118	949
65°	616	616	616
70°	380	246	380
75°	0	177	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 8487 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1010.5	28.3
10°-20°	1627.5	45.5
20°-30°	703.3	19.7
30°-40°	160.3	4.5
40°-50°	55.0	1.5
50°-60°	13.4	0.4
60°-70°	3.5	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°	3341.3	93.5
0°-40°	3501.6	98.0
0°-60°	3570.0	99.9
0°-90°	3573.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3573.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11492	11492	11492	11492	11492	
5°	11119	11109	11106	11130	11120	1011
15°	6093	6020	6060	6040	6030	1631
25°	1432	1486	1615	1448	1403	685
35°	240	245	230	228	193	163
45°	63	78	78	78	64	45
55°	10	11	19	11	11	10
65°	3	3	3	3	3	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°	11491.8	11491.8	11491.8	11491.8	11491.8
2.5°	11415.7	11407.8	11412.3	11417.9	11420.2
5°	11119.4	11108.7	11106.5	11129.6	11120.0
7.5°	10521.9	10506.7	10483.6	10536.1	10585.1
10°	9521.0	9504.1	9453.9	9478.7	9518.8
12.5°	8043.4	7988.6	7987.5	8066.5	8055.8
15°	6092.9	6019.6	6060.2	6040.4	6029.7
17.5°	4097.3	4069.1	4123.2	4106.9	4036.4
20°	2947.4	2954.8	3058.0	3006.1	2943.5
22.5°	2150.8	2177.3	2299.7	2166.0	2116.9
25°	1432.0	1486.1	1614.8	1448.3	1402.6
27.5°	880.7	905.6	1035.9	869.4	844.6
30°	547.8	535.4	596.9	512.3	477.3
32.5°	359.4	343.6	363.4	326.1	297.9
35°	240.4	245.4	230.2	228.5	193.0
37.5°	150.1	172.6	152.3	162.5	124.1
40°	97.0	125.3	107.8	119.0	91.4
42.5°	79.6	96.5	88.6	94.2	81.2
45°	63.2	78.4	78.4	78.4	63.8
47.5°	35.0	52.5	67.1	53.6	37.2
50°	19.7	26.5	51.9	27.6	20.9
52.5°	13.5	15.2	35.5	15.8	14.1
55°	10.2	10.7	19.2	11.3	10.7
57.5°	7.9	8.5	10.2	8.5	7.9
60°	6.2	6.2	7.3	6.8	6.2
62.5°	4.5	4.5	5.1	4.5	4.5
65°	3.4	3.4	3.4	3.4	3.4
67.5°	1.7	2.3	2.3	2.3	2.3
70°	1.7	1.1	1.1	1.1	1.7
72.5°	1.1	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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