

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: P747564

Luminaire Tested: LD4D40BD010-EU4DR3040509035-4LBCSSQMB

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P747564
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-EU4DR3040509035-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

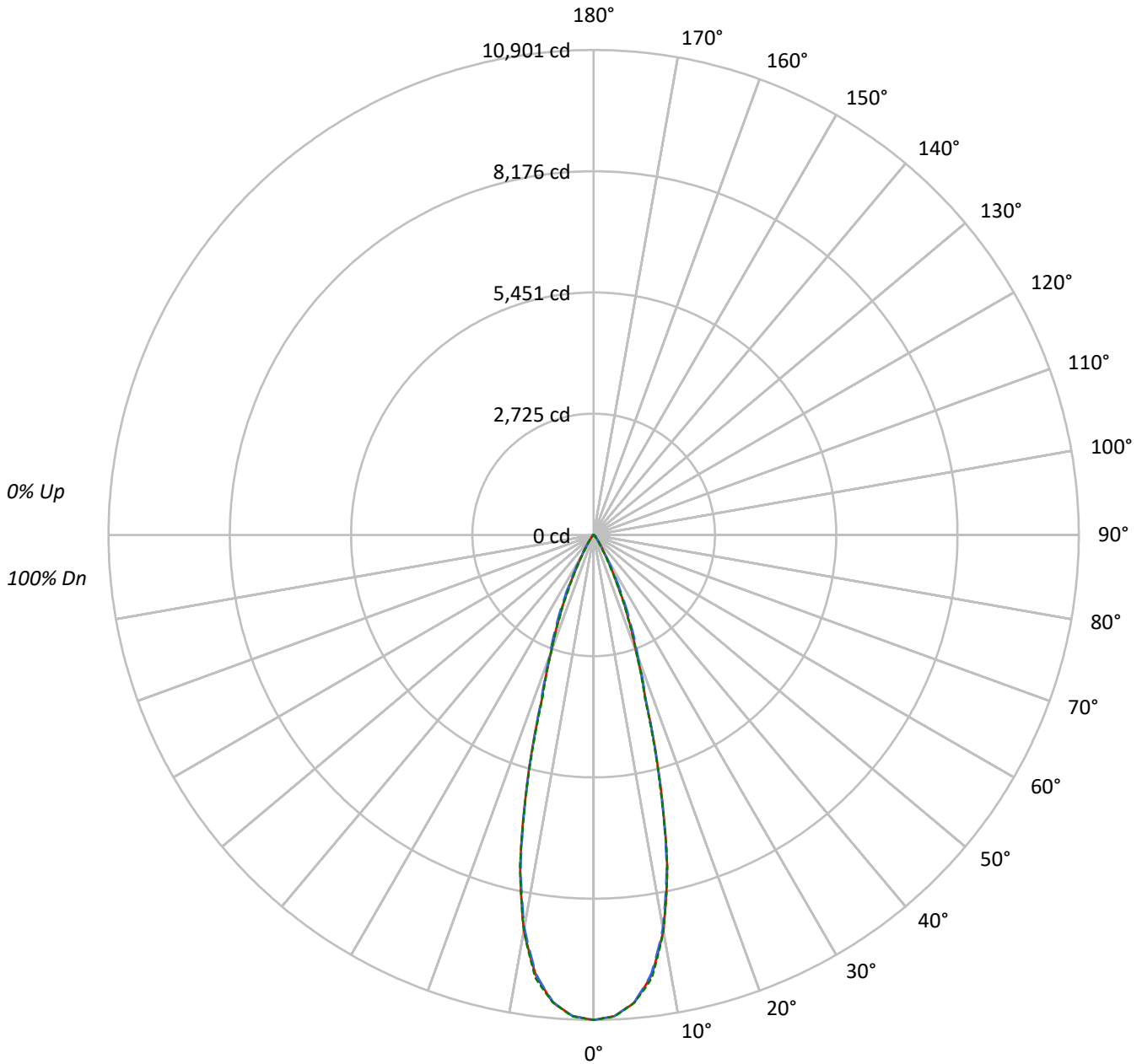
Lumens per Lamp: N/A
Luminaire Lumens: 3390.0 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

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	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°	834377	834377	834377
5°	810425	809480	810464
10°	701951	697000	701780
15°	457988	455524	453234
20°	227734	236279	227433
25°	114717	129362	112369
30°	45934	50043	40021
35°	21305	20408	17100
40°	9203	10212	8663
45°	6484	8054	6549
50°	2227	5859	2358
55°	1281	2429	1361
60°	903	1072	903
65°	580	580	580
70°	358	246	358
75°	0	148	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 8054 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	958.6	28.3
10°-20°	1543.8	45.5
20°-30°	667.1	19.7
30°-40°	152.0	4.5
40°-50°	52.2	1.5
50°-60°	12.8	0.4
60°-70°	3.3	0.1
70°-80°	0.3	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°	3169.4	93.5
0°-40°	3321.4	98.0
0°-60°	3386.4	99.9
0°-90°	3390.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3390.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10901	10901	10901	10901	10901	
5°	10548	10537	10535	10557	10548	959
15°	5780	5710	5748	5730	5720	1548
25°	1358	1410	1532	1374	1330	650
35°	228	233	218	217	183	155
45°	60	74	74	74	60	43
55°	10	10	18	11	10	9
65°	3	3	3	3	3	3
75°	0	0	0	0	0	0
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°	10900.7	10900.7	10900.7	10900.7	10900.7
2.5°	10828.4	10821.0	10825.2	10830.6	10832.7
5°	10547.5	10537.3	10535.2	10557.1	10548.0
7.5°	9980.7	9966.3	9944.3	9994.1	10040.6
10°	9031.3	9015.2	8967.6	8991.1	9029.1
12.5°	7629.6	7577.7	7576.6	7651.6	7641.4
15°	5779.5	5709.9	5748.4	5729.7	5719.5
17.5°	3886.5	3859.8	3911.1	3895.6	3828.7
20°	2795.8	2802.8	2900.7	2851.5	2792.1
22.5°	2040.1	2065.3	2181.4	2054.6	2008.0
25°	1358.3	1409.7	1531.7	1373.8	1330.5
27.5°	835.4	859.0	982.6	824.7	801.2
30°	519.7	507.9	566.2	486.0	452.8
32.5°	340.9	325.9	344.7	309.3	282.6
35°	228.0	232.8	218.4	216.8	183.0
37.5°	142.4	163.8	144.5	154.1	117.7
40°	92.1	118.8	102.2	112.9	86.7
42.5°	75.5	91.5	84.0	89.4	77.1
45°	59.9	74.4	74.4	74.4	60.5
47.5°	33.2	49.8	63.7	50.8	35.3
50°	18.7	25.2	49.2	26.2	19.8
52.5°	12.8	14.5	33.7	15.0	13.4
55°	9.6	10.2	18.2	10.7	10.2
57.5°	7.5	8.0	9.6	8.0	7.5
60°	5.9	5.9	7.0	6.4	5.9
62.5°	4.3	4.3	4.8	4.3	4.3
65°	3.2	3.2	3.2	3.2	3.2
67.5°	1.6	2.1	2.1	2.1	2.1
70°	1.6	1.1	1.1	1.1	1.6
72.5°	1.1	0.5	0.5	0.5	0.5
75°	0.0	0.0	0.5	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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