

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: P748355

Luminaire Tested: LD4D45BD010-EU4DR3040509035-4LBSQW1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P748355
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: LD4D45BD010-EU4DR3040509035-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3088.1 lumens
Efficiency: N/A
Efficacy: 79.8 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')

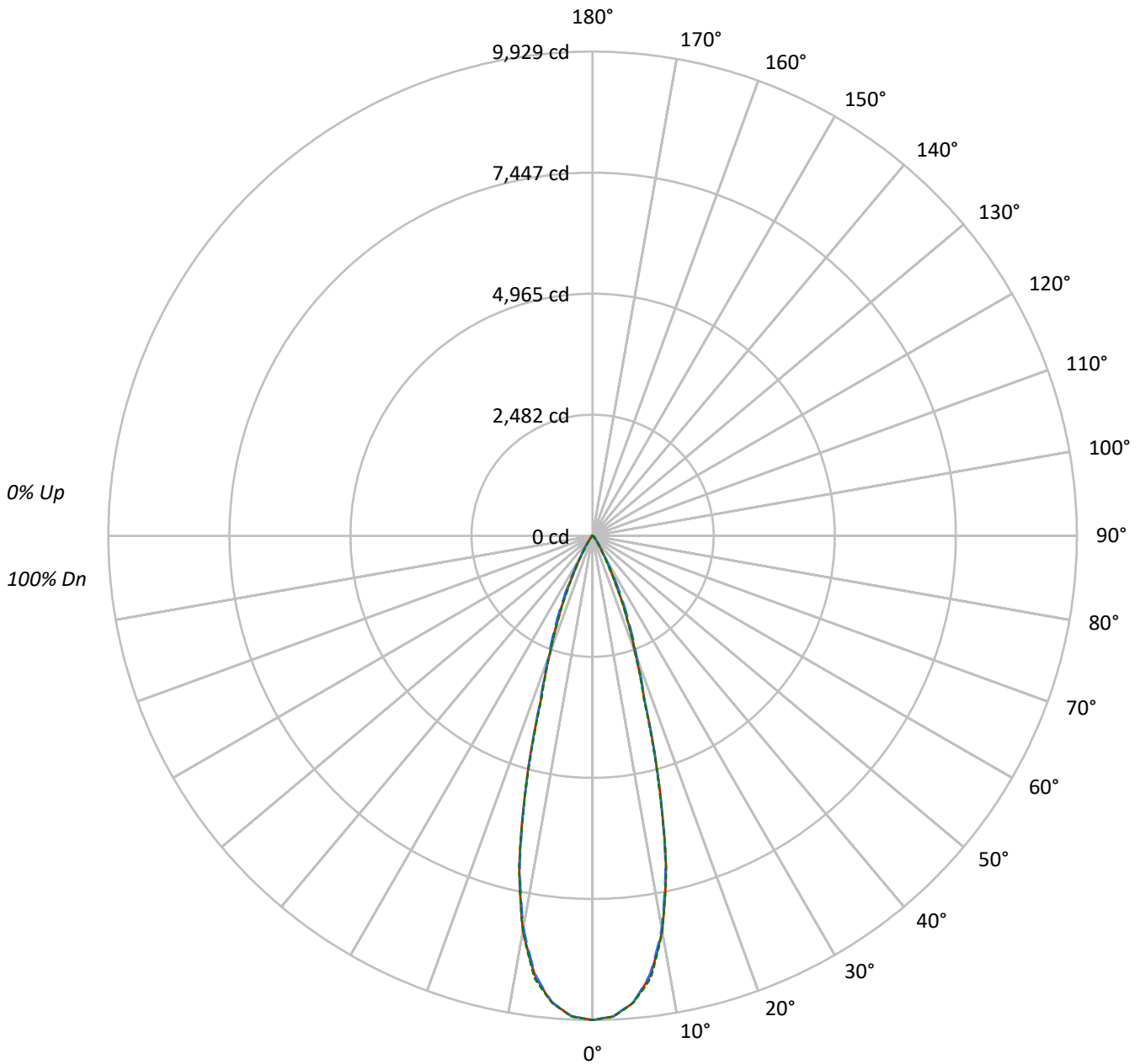
CIE Type: Direct

Input Watts (W): 38.7
Input Voltage (V): NR
Input Current (A_{in}): 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°	760030	760030	760030
5°	738215	737355	738254
10°	639406	634898	639250
15°	417178	414943	412851
20°	207443	215231	207166
25°	104498	117833	102353
30°	41841	45589	36450
35°	19408	18586	15577
40°	8383	9303	7894
45°	5910	7339	5965
50°	2036	5347	2143
55°	1174	2215	1241
60°	827	964	827
65°	525	525	525
70°	336	224	336
75°	0	148	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 7339 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	873.1	28.3
10°-20°	1406.2	45.5
20°-30°	607.7	19.7
30°-40°	138.5	4.5
40°-50°	47.6	1.5
50°-60°	11.6	0.4
60°-70°	3.0	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°	2887.0	93.5
0°-40°	3025.5	98.0
0°-60°	3084.7	99.9
0°-90°	3088.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3088.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9929	9929	9929	9929	9929	
5°	9608	9598	9596	9616	9608	874
15°	5264	5201	5236	5219	5210	1410
25°	1237	1284	1395	1251	1212	592
35°	208	212	199	197	167	141
45°	55	68	68	68	55	39
55°	9	9	17	10	9	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°	9929.4	9929.4	9929.4	9929.4	9929.4
2.5°	9863.6	9856.8	9860.7	9865.6	9867.5
5°	9607.7	9598.4	9596.5	9616.5	9608.2
7.5°	9091.4	9078.3	9058.3	9103.6	9146.0
10°	8226.6	8212.0	8168.6	8190.0	8224.6
12.5°	6949.8	6902.5	6901.6	6969.8	6960.5
15°	5264.5	5201.2	5236.3	5219.2	5209.9
17.5°	3540.2	3515.9	3562.7	3548.5	3487.6
20°	2546.7	2553.0	2642.3	2597.4	2543.3
22.5°	1858.4	1881.3	1987.1	1871.5	1829.1
25°	1237.3	1284.1	1395.2	1251.4	1211.9
27.5°	761.0	782.4	895.1	751.2	729.8
30°	473.4	462.6	515.8	442.7	412.4
32.5°	310.5	296.9	314.0	281.8	257.4
35°	207.7	212.1	198.9	197.4	166.7
37.5°	129.7	149.2	131.6	140.4	107.3
40°	83.9	108.2	93.1	102.9	79.0
42.5°	68.7	83.4	76.5	81.4	70.2
45°	54.6	67.8	67.8	67.8	55.1
47.5°	30.2	45.3	58.0	46.3	32.2
50°	17.1	22.9	44.9	23.9	18.0
52.5°	11.7	13.2	30.7	13.7	12.2
55°	8.8	9.3	16.6	9.8	9.3
57.5°	6.8	7.3	8.8	7.3	6.8
60°	5.4	5.4	6.3	5.9	5.4
62.5°	3.9	3.9	4.4	3.9	3.9
65°	2.9	2.9	2.9	2.9	2.9
67.5°	1.5	2.0	2.0	2.0	2.0
70°	1.5	1.0	1.0	1.0	1.5
72.5°	1.0	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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