

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: P748381

Luminaire Tested: LD4D45BD010-EU4DR3040509050-4LBSQW1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P748381
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-EU4DR3040509050-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

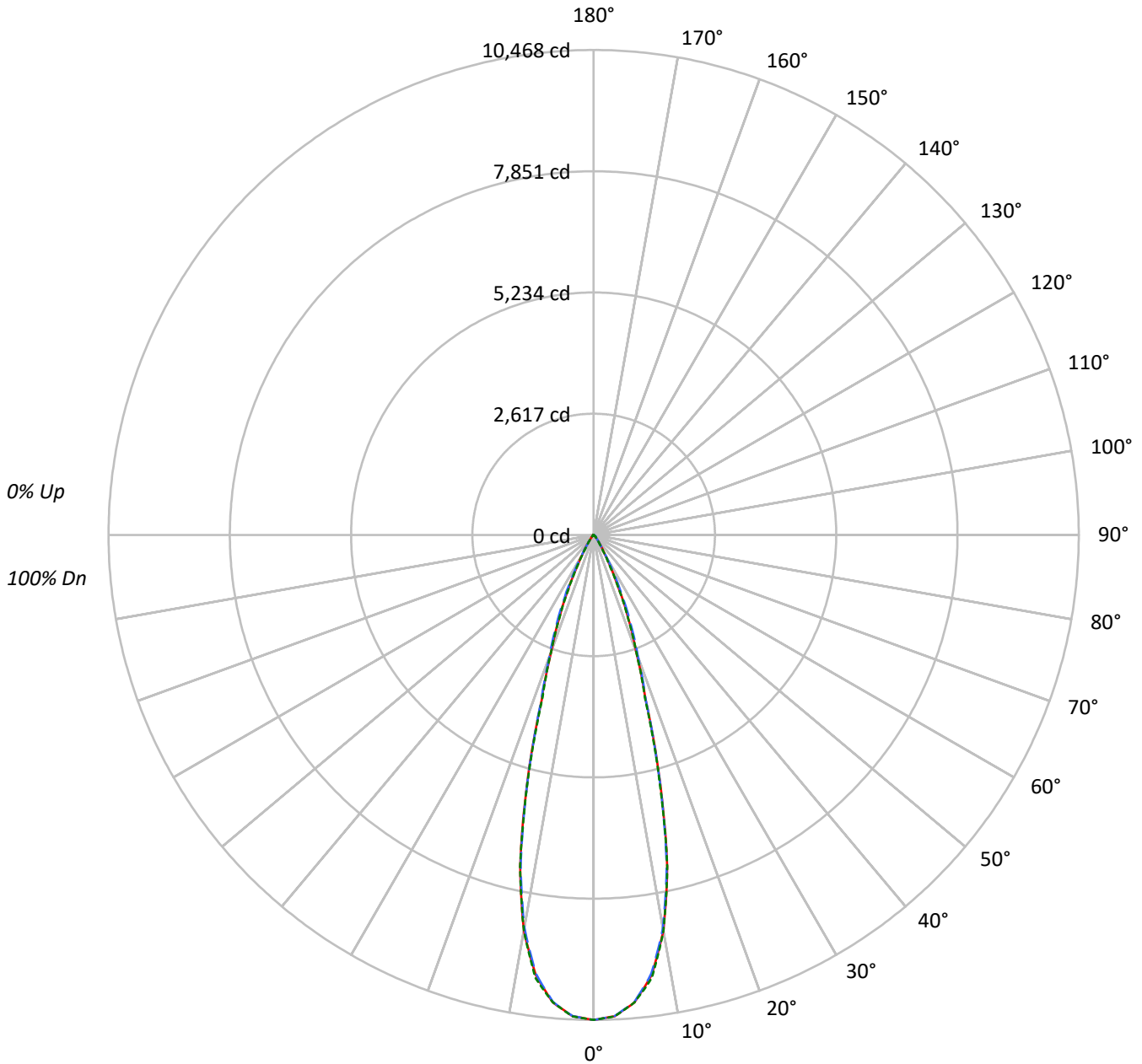
Lumens per Lamp: N/A
Luminaire Lumens: 3255.5 lumens
Efficiency: N/A
Efficacy: 84.1 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 38.7
Input Voltage (V): NR
Input Current (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°	801249	801249	801249
5°	778247	777340	778285
10°	674079	669322	673923
15°	439802	437440	435245
20°	218692	226895	218399
25°	110165	124227	107910
30°	44104	48055	38430
35°	20455	19595	16427
40°	8833	9812	8323
45°	6235	7729	6289
50°	2143	5633	2263
55°	1241	2335	1308
60°	873	1026	873
65°	561	561	561
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: 7729 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	920.5	28.3
10°-20°	1482.5	45.5
20°-30°	640.6	19.7
30°-40°	146.0	4.5
40°-50°	50.1	1.5
50°-60°	12.3	0.4
60°-70°	3.2	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°	3043.6	93.5
0°-40°	3189.6	98.0
0°-60°	3252.0	99.9
0°-90°	3255.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3255.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10468	10468	10468	10468	10468	
5°	10129	10119	10117	10138	10129	921
15°	5550	5483	5520	5502	5492	1486
25°	1304	1354	1471	1319	1278	624
35°	219	224	210	208	176	148
45°	58	71	71	71	58	41
55°	9	10	18	10	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°	10467.9	10467.9	10467.9	10467.9	10467.9
2.5°	10398.5	10391.3	10395.4	10400.6	10402.6
5°	10128.7	10118.9	10116.9	10137.9	10129.2
7.5°	9584.4	9570.6	9549.5	9597.3	9642.0
10°	8672.7	8657.3	8611.5	8634.2	8670.7
12.5°	7326.7	7276.9	7275.8	7347.8	7338.0
15°	5550.0	5483.2	5520.2	5502.2	5492.5
17.5°	3732.2	3706.5	3755.9	3741.0	3676.7
20°	2684.8	2691.5	2785.5	2738.3	2681.2
22.5°	1959.1	1983.3	2094.8	1973.0	1928.3
25°	1304.4	1353.7	1470.9	1319.3	1277.7
27.5°	802.3	824.9	943.6	792.0	769.4
30°	499.0	487.7	543.7	466.7	434.8
32.5°	327.4	313.0	331.0	297.1	271.4
35°	218.9	223.6	209.7	208.1	175.8
37.5°	136.7	157.3	138.8	148.0	113.1
40°	88.4	114.1	98.2	108.4	83.3
42.5°	72.5	87.9	80.7	85.8	74.0
45°	57.6	71.4	71.4	71.4	58.1
47.5°	31.9	47.8	61.2	48.8	33.9
50°	18.0	24.2	47.3	25.2	19.0
52.5°	12.3	13.9	32.4	14.4	12.8
55°	9.3	9.8	17.5	10.3	9.8
57.5°	7.2	7.7	9.3	7.7	7.2
60°	5.7	5.7	6.7	6.2	5.7
62.5°	4.1	4.1	4.6	4.1	4.1
65°	3.1	3.1	3.1	3.1	3.1
67.5°	1.5	2.1	2.1	2.1	2.1
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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