

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: P748329

Luminaire Tested: LD4D45BD010-EU4DR3040509027-4LBSQW1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P748329
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-EU4DR3040509027-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

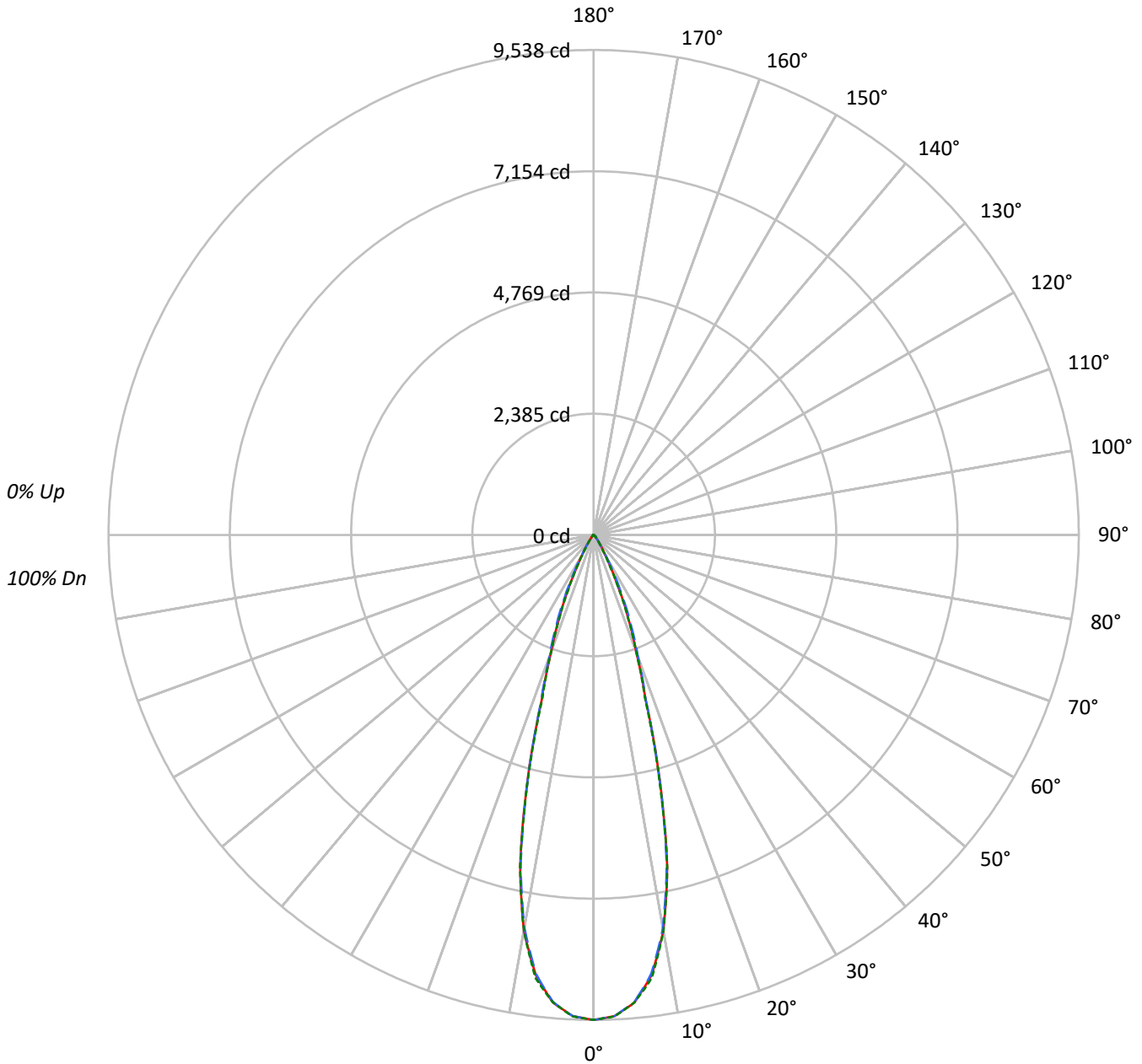
Lumens per Lamp: N/A
Luminaire Lumens: 2966.2 lumens
Efficiency: N/A
Efficacy: 76.6 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

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°	730048	730048	730048
5°	709087	708265	709125
10°	614177	609847	614037
15°	400719	398571	396566
20°	199257	206735	198996
25°	100376	113188	98316
30°	40189	43786	35018
35°	18642	17857	14960
40°	8044	8933	7584
45°	5672	7047	5726
50°	1953	5132	2060
55°	1121	2122	1188
60°	796	934	796
65°	507	507	507
70°	313	201	313
75°	0	148	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 7047 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	838.7	28.3
10°-20°	1350.7	45.5
20°-30°	583.7	19.7
30°-40°	133.0	4.5
40°-50°	45.7	1.5
50°-60°	11.2	0.4
60°-70°	2.9	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°	2773.1	93.5
0°-40°	2906.1	98.0
0°-60°	2963.0	99.9
0°-90°	2966.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2966.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9538	9538	9538	9538	9538	
5°	9229	9220	9218	9237	9229	839
15°	5057	4996	5030	5013	5004	1354
25°	1188	1233	1340	1202	1164	569
35°	200	204	191	190	160	135
45°	52	65	65	65	53	37
55°	8	9	16	9	9	8
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°	9537.7	9537.7	9537.7	9537.7	9537.7
2.5°	9474.5	9467.9	9471.7	9476.4	9478.2
5°	9228.6	9219.8	9217.9	9237.1	9229.1
7.5°	8732.8	8720.1	8700.9	8744.5	8785.2
10°	7902.0	7888.0	7846.3	7866.9	7900.2
12.5°	6675.6	6630.2	6629.3	6694.8	6685.9
15°	5056.8	4996.0	5029.7	5013.3	5004.4
17.5°	3400.6	3377.2	3422.1	3408.5	3350.0
20°	2446.2	2452.3	2538.0	2494.9	2443.0
22.5°	1785.0	1807.1	1908.7	1797.7	1756.9
25°	1188.5	1233.4	1340.2	1202.0	1164.1
27.5°	731.0	751.6	859.7	721.6	701.0
30°	454.7	444.4	495.4	425.2	396.2
32.5°	298.3	285.2	301.6	270.7	247.2
35°	199.5	203.7	191.1	189.6	160.1
37.5°	124.6	143.3	126.4	134.9	103.0
40°	80.5	104.0	89.4	98.8	75.9
42.5°	66.0	80.1	73.5	78.2	67.4
45°	52.4	65.1	65.1	65.1	52.9
47.5°	29.0	43.5	55.7	44.5	30.9
50°	16.4	22.0	43.1	22.9	17.3
52.5°	11.2	12.6	29.5	13.1	11.7
55°	8.4	8.9	15.9	9.4	8.9
57.5°	6.6	7.0	8.4	7.0	6.6
60°	5.2	5.2	6.1	5.6	5.2
62.5°	3.7	3.7	4.2	3.7	3.7
65°	2.8	2.8	2.8	2.8	2.8
67.5°	1.4	1.9	1.9	1.9	1.9
70°	1.4	0.9	0.9	0.9	1.4
72.5°	0.9	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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