

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: P748330

Luminaire Tested: LD4D45BD010-EU4DR3040509027-4LBSQW1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P748330
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-EU4DR3040509027-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3284.0 lumens
Efficiency: N/A
Efficacy: 84.9 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

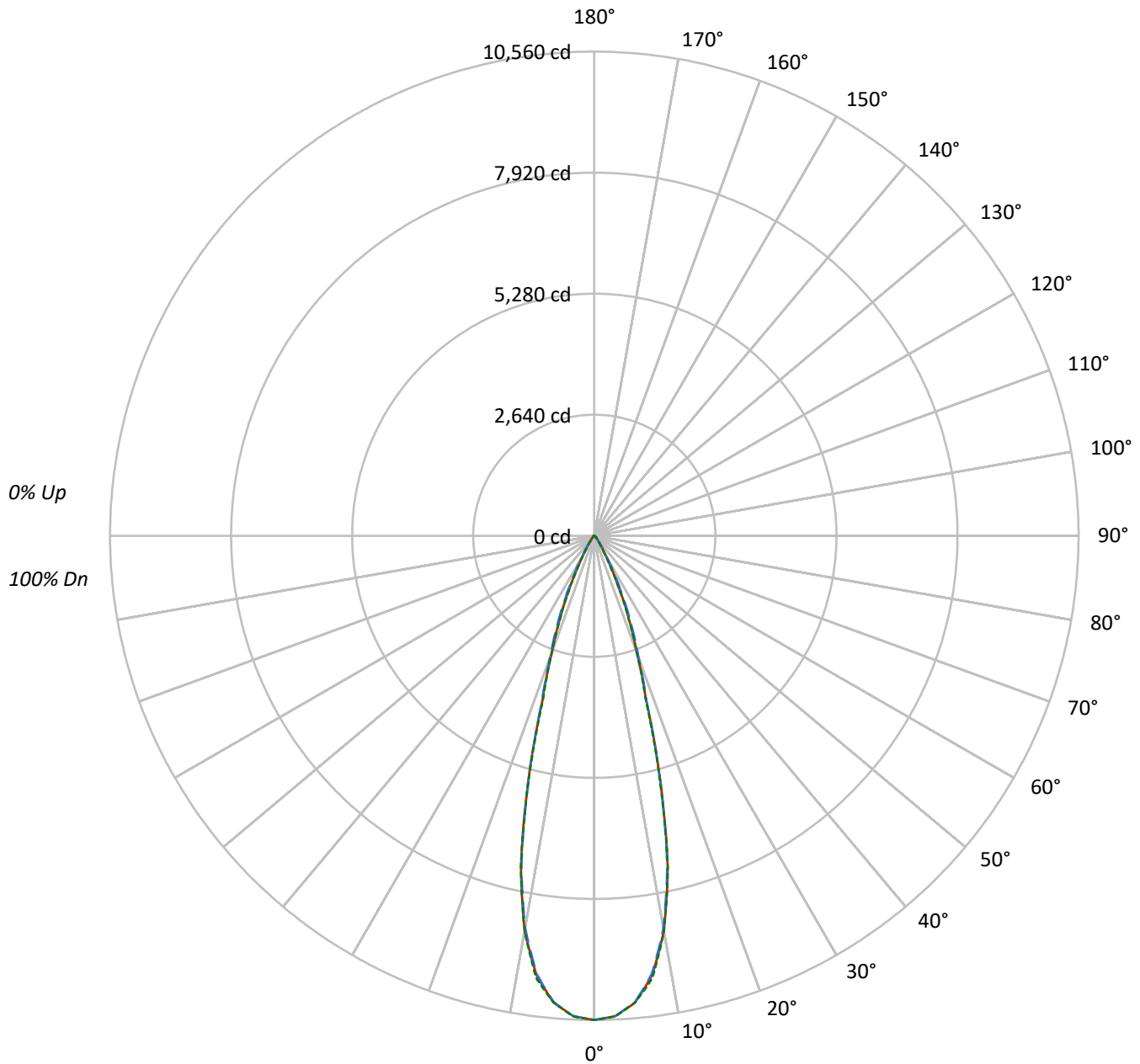
Input Watts (W): 38.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P748330

CATALOG NUMBER: LD4D45BD010-EU4DR3040509027-4LBSQW1MW

Luminous Intensity Polar Plot



TEST NUMBER: P748330

CATALOG NUMBER: LD4D45BD010-EU4DR3040509027-4LBSQW1MW

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	115	113	111	109	112	110	109	107	106	105	104		103	102	101		99
2	111	107	104	101	109	105	102	100	102	100	98		99	97	96		97
3	107	102	98	95	105	101	97	94	98	95	93		96	93	91		94
4	103	98	93	90	102	96	93	90	94	91	89		93	90	88		91
5	100	94	89	86	98	93	89	86	91	88	85		90	86	84		88
6	97	90	85	82	95	89	85	82	88	84	81		87	83	81		85
7	94	87	82	79	92	86	82	79	85	81	78		84	81	78		83
8	91	84	79	76	90	83	79	76	82	78	76		81	78	75		80
9	88	81	76	73	87	80	76	73	80	76	73		79	75	73		78
10	85	78	74	71	85	78	74	71	77	73	71		76	73	71		76

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	808260	808260	808260
5°	785062	784140	785100
10°	679978	675182	679822
15°	443653	441268	439049
20°	220607	228883	220313
25°	111128	125316	108847
30°	44493	48479	38766
35°	20641	19763	16567
40°	8913	9892	8393
45°	6289	7805	6343
50°	2155	5680	2286
55°	1241	2349	1321
60°	873	1026	873
65°	561	561	561
70°	358	224	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: 7805 cd/sqm



TEST NUMBER: P748330

CATALOG NUMBER: LD4D45BD010-EU4DR3040509027-4LBSQW1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	928.5	28.3
10°-20°	1495.4	45.5
20°-30°	646.2	19.7
30°-40°	147.3	4.5
40°-50°	50.6	1.5
50°-60°	12.4	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°	3070.2	93.5
0°-40°	3217.5	98.0
0°-60°	3280.4	99.9
0°-90°	3284.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3284.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10560	10560	10560	10560	10560	
5°	10217	10208	10205	10227	10218	929
15°	5599	5531	5568	5550	5540	1499
25°	1316	1366	1484	1331	1289	630
35°	221	226	212	210	177	150
45°	58	72	72	72	59	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	



TEST NUMBER: P748330

CATALOG NUMBER: LD4D45BD010-EU4DR3040509027-4LBSQW1MW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10559.5	10559.5	10559.5	10559.5	10559.5
2.5°	10489.5	10482.3	10486.4	10491.6	10493.7
5°	10217.4	10207.5	10205.4	10226.7	10217.9
7.5°	9668.3	9654.3	9633.1	9681.3	9726.4
10°	8748.6	8733.1	8686.9	8709.8	8746.6
12.5°	7390.8	7340.6	7339.5	7412.1	7402.3
15°	5598.6	5531.2	5568.5	5550.4	5540.5
17.5°	3764.9	3739.0	3788.7	3773.7	3708.9
20°	2708.3	2715.1	2809.9	2762.2	2704.7
22.5°	1976.3	2000.7	2113.2	1990.3	1945.2
25°	1315.8	1365.6	1483.8	1330.8	1288.8
27.5°	809.3	832.1	951.9	798.9	776.1
30°	503.4	492.0	548.5	470.7	438.6
32.5°	330.2	315.7	333.9	299.7	273.7
35°	220.9	225.5	211.5	210.0	177.3
37.5°	137.9	158.6	140.0	149.3	114.1
40°	89.2	115.1	99.0	109.4	84.0
42.5°	73.1	88.7	81.4	86.6	74.7
45°	58.1	72.1	72.1	72.1	58.6
47.5°	32.1	48.2	61.7	49.3	34.2
50°	18.1	24.4	47.7	25.4	19.2
52.5°	12.4	14.0	32.7	14.5	13.0
55°	9.3	9.9	17.6	10.4	9.9
57.5°	7.3	7.8	9.3	7.8	7.3
60°	5.7	5.7	6.7	6.2	5.7
62.5°	4.1	4.1	4.7	4.1	4.1
65°	3.1	3.1	3.1	3.1	3.1
67.5°	1.6	2.1	2.1	2.1	2.1
70°	1.6	1.0	1.0	1.0	1.6
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



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)