

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: P784878

Luminaire Tested: LER4DD45BD010-EC4DR3040509024-4LBDP1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P784878
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: LER4DD45BD010-EC4DR3040509024-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3620.6 lumens
Efficiency: N/A
Efficacy: 93.6 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

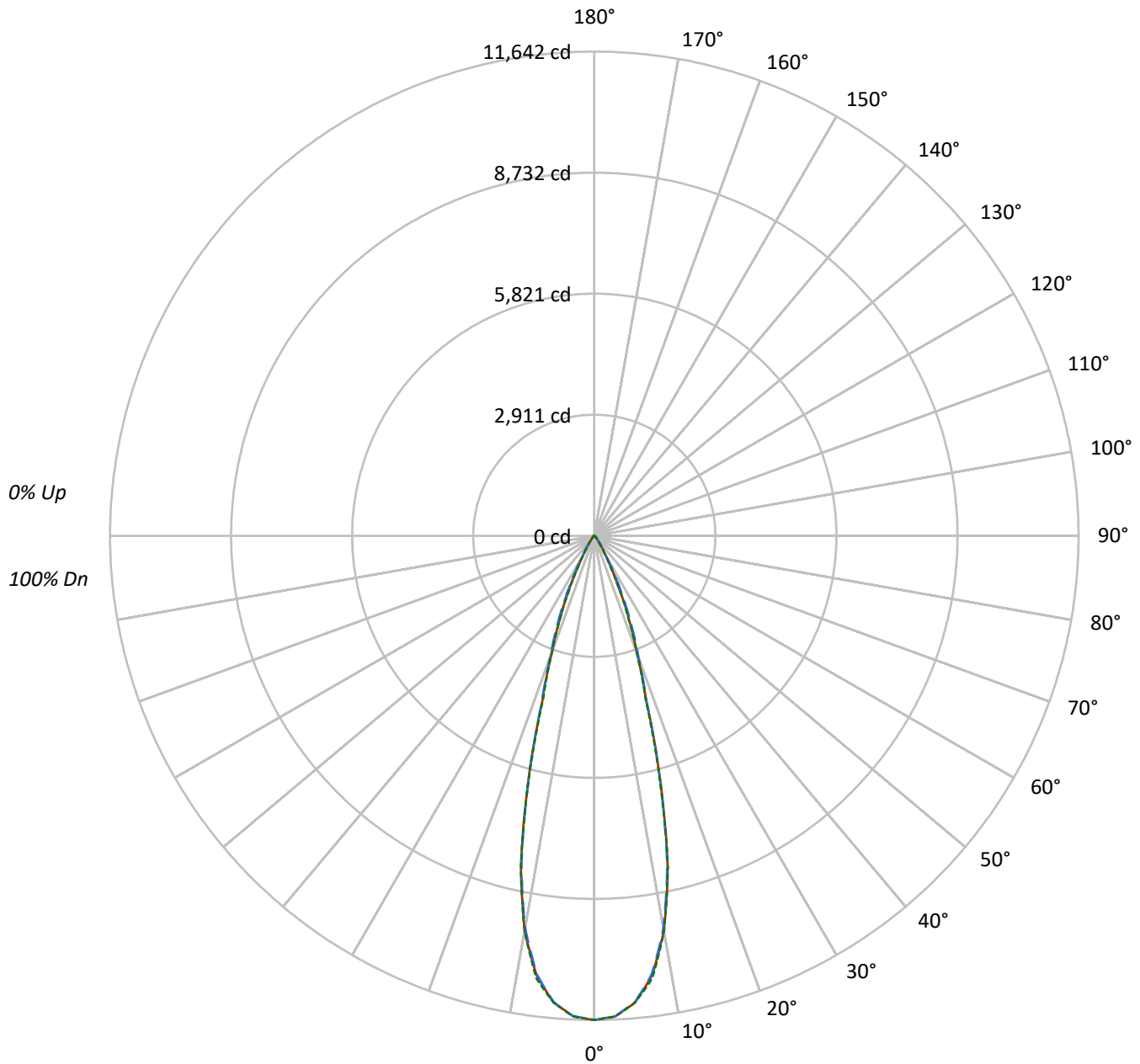


Downlight

TEST NUMBER: P784878

CATALOG NUMBER: LER4DD45BD010-EC4DR3040509024-4LBDP1LI

Luminous Intensity Polar Plot



TEST NUMBER: P784878

CATALOG NUMBER: LER4DD45BD010-EC4DR3040509024-4LBDP1LI

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°	891118	891118	891118
5°	865532	864525	865578
10°	749681	744396	749510
15°	489131	486508	484059
20°	243219	252350	242893
25°	122521	138162	120012
30°	49054	53446	42743
35°	22753	21791	18268
40°	9822	10911	9253
45°	6928	8595	6993
50°	2382	6264	2513
55°	1375	2589	1455
60°	964	1133	964
65°	616	616	616
70°	380	246	380
75°	0	177	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 8595 cd/sqm

TEST NUMBER: P784878

CATALOG NUMBER: LER4DD45BD010-EC4DR3040509024-4LBDP1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1023.7	28.3
10°-20°	1648.7	45.5
20°-30°	712.5	19.7
30°-40°	162.4	4.5
40°-50°	55.7	1.5
50°-60°	13.6	0.4
60°-70°	3.5	0.1
70°-80°	0.4	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°	3384.9	93.5
0°-40°	3547.3	98.0
0°-60°	3616.7	99.9
0°-90°	3620.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3620.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11642	11642	11642	11642	11642	
5°	11265	11254	11252	11275	11265	1025
15°	6172	6098	6139	6119	6108	1653
25°	1451	1506	1636	1467	1421	694
35°	244	249	233	232	196	165
45°	64	79	79	79	65	45
55°	10	11	19	11	11	10
65°	3	3	3	3	3	3
75°	0	0	1	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P784878

CATALOG NUMBER: LER4DD45BD010-EC4DR3040509024-4LBDP1LI

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11642.0	11642.0	11642.0	11642.0	11642.0
2.5°	11564.8	11556.8	11561.4	11567.1	11569.4
5°	11264.7	11253.9	11251.6	11275.0	11265.3
7.5°	10659.4	10644.0	10620.6	10673.7	10723.4
10°	9645.4	9628.3	9577.4	9602.6	9643.2
12.5°	8148.5	8093.0	8091.9	8171.9	8161.0
15°	6172.5	6098.2	6139.4	6119.4	6108.5
17.5°	4150.8	4122.2	4177.1	4160.5	4089.1
20°	2985.9	2993.4	3098.0	3045.4	2981.9
22.5°	2178.9	2205.7	2329.8	2194.3	2144.6
25°	1450.7	1505.5	1635.9	1467.2	1421.0
27.5°	892.2	917.4	1049.4	880.8	855.7
30°	555.0	542.4	604.7	519.0	483.6
32.5°	364.1	348.1	368.1	330.4	301.8
35°	243.5	248.6	233.2	231.5	195.5
37.5°	152.0	174.9	154.3	164.6	125.7
40°	98.3	126.9	109.2	120.6	92.6
42.5°	80.6	97.7	89.7	95.5	82.3
45°	64.0	79.4	79.4	79.4	64.6
47.5°	35.4	53.2	68.0	54.3	37.7
50°	20.0	26.9	52.6	28.0	21.1
52.5°	13.7	15.4	36.0	16.0	14.3
55°	10.3	10.9	19.4	11.4	10.9
57.5°	8.0	8.6	10.3	8.6	8.0
60°	6.3	6.3	7.4	6.9	6.3
62.5°	4.6	4.6	5.1	4.6	4.6
65°	3.4	3.4	3.4	3.4	3.4
67.5°	1.7	2.3	2.3	2.3	2.3
70°	1.7	1.1	1.1	1.1	1.7
72.5°	1.1	0.6	0.6	0.6	0.6
75°	0.0	0.0	0.6	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)