

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: P781162

Luminaire Tested: LER4D35BD010-EC4DR6520359027-4LBS1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P781162
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-147)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D35BD010-EC4DR6520359027-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3004.1 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.96
Luminous Opening: Circular (Dia: 0.48' x H: 0')
CIE Type: Direct

Input Watts (W): 30.8
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

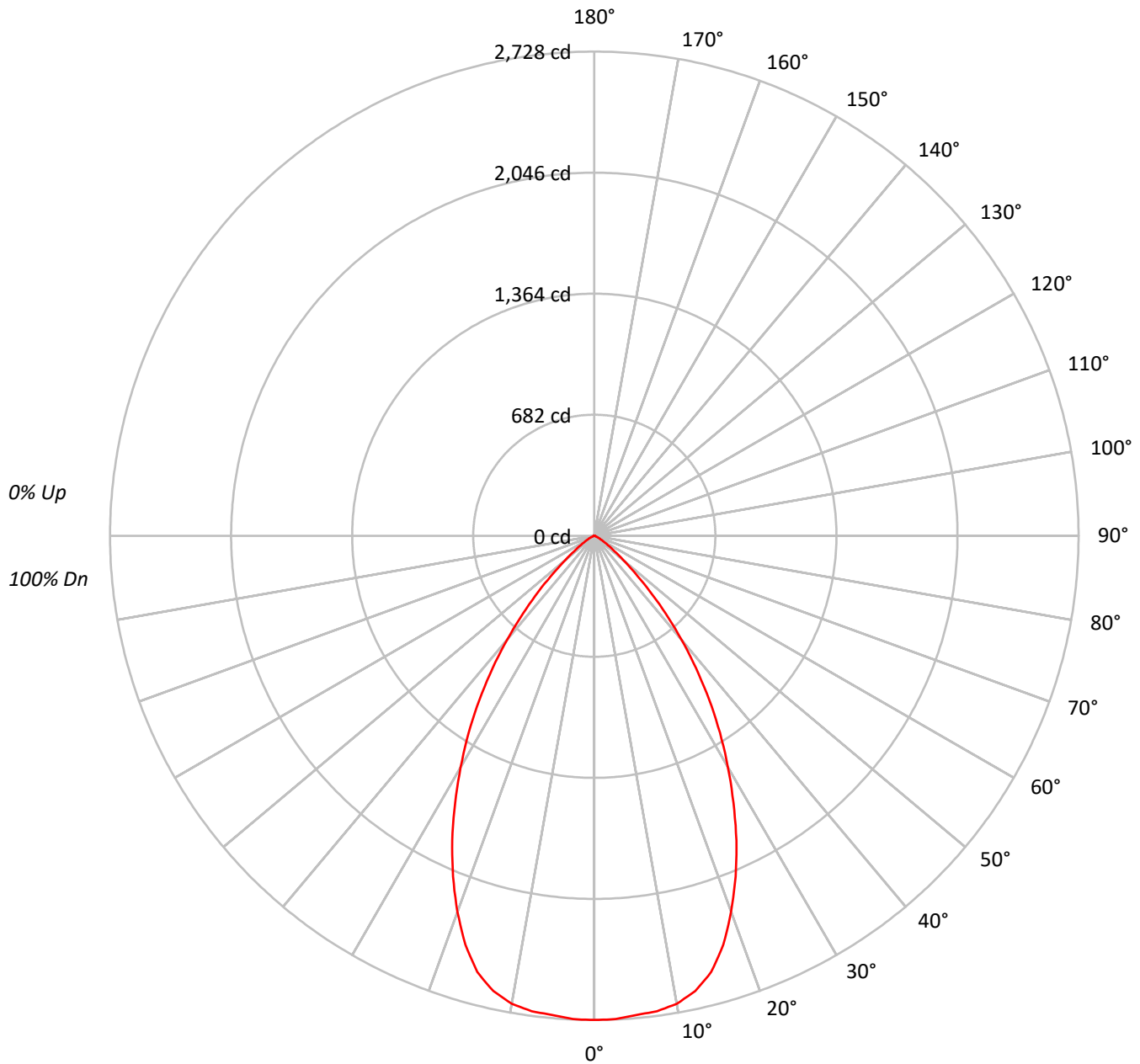


Downlight

TEST NUMBER: P781162

CATALOG NUMBER: LER4D35BD010-EC4DR6520359027-4LBS1LI

Luminous Intensity Polar Plot





TEST NUMBER: P781162

CATALOG NUMBER: LER4D35BD010-EC4DR6520359027-4LBS1LI

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	113	110	107	105	111	108	105	103	104	102	100		100	99	97		97
2	107	102	97	94	105	100	96	92	97	93	90		94	91	88		91
3	101	94	88	84	99	92	87	83	90	86	82		87	84	81		85
4	95	87	81	76	93	86	80	76	84	79	75		82	77	74		80
5	90	81	74	70	88	80	74	69	78	73	69		76	72	68		75
6	85	75	69	64	83	74	68	64	73	67	63		71	67	63		70
7	80	70	64	59	79	69	63	59	68	63	59		67	62	58		66
8	76	66	59	55	75	65	59	55	64	58	54		63	58	54		62
9	72	61	55	51	71	61	55	51	60	54	51		59	54	50		58
10	68	58	52	47	67	57	51	47	57	51	47		56	51	47		55

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	159308
5°	158903
10°	158771
15°	153875
20°	140085
25°	122072
30°	101529
35°	80453
40°	58065
45°	36681
50°	19117
55°	10162
60°	5338
65°	2930
70°	1229
75°	1354
80°	942
85°	804

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 36681 cd/sqm



TEST NUMBER: P781162

CATALOG NUMBER: LER4D35BD010-EC4DR6520359027-4LBS1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.0	8.6
10°-20°	706.4	23.5
20°-30°	863.4	28.7
30°-40°	700.6	23.3
40°-50°	349.1	11.6
50°-60°	97.4	3.2
60°-70°	22.1	0.7
70°-80°	5.7	0.2
80°-90°	1.5	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°	1827.7	60.8
0°-40°	2528.3	84.2
0°-60°	2974.7	99.0
0°-90°	3004.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3004.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2728	
5°	2710	258
15°	2545	706
25°	1894	863
35°	1128	701
45°	444	349
55°	100	97
65°	21	22
75°	6	6
85°	1	1
90°	0	



TEST NUMBER: P781162

CATALOG NUMBER: LER4D35BD010-EC4DR6520359027-4LBS1LI

CANDELA DISTRIBUTION (FULL):

	0°
0°	2727.7
2.5°	2725.7
5°	2710.4
7.5°	2701.6
10°	2677.2
12.5°	2627.5
15°	2544.9
17.5°	2415.8
20°	2253.9
22.5°	2079.1
25°	1894.3
27.5°	1696.7
30°	1505.5
32.5°	1316.7
35°	1128.4
37.5°	940.4
40°	761.6
42.5°	594.0
45°	444.1
47.5°	309.4
50°	210.4
52.5°	145.1
55°	99.8
57.5°	67.3
60°	45.7
62.5°	31.7
65°	21.2
67.5°	10.8
70°	7.2
72.5°	6.8
75°	6.0
77.5°	4.0
80°	2.8
82.5°	2.0
85°	1.2
87.5°	0.8
90°	0.0



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180°







(END OF REPORT)