

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: P781648

Luminaire Tested: LER4D45BD010-EC4DR6540509035-4LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P781648
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: LER4D45BD010-EC4DR6540509035-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3566.1 lumens
Efficiency: N/A
Efficacy: 92.1 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): 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

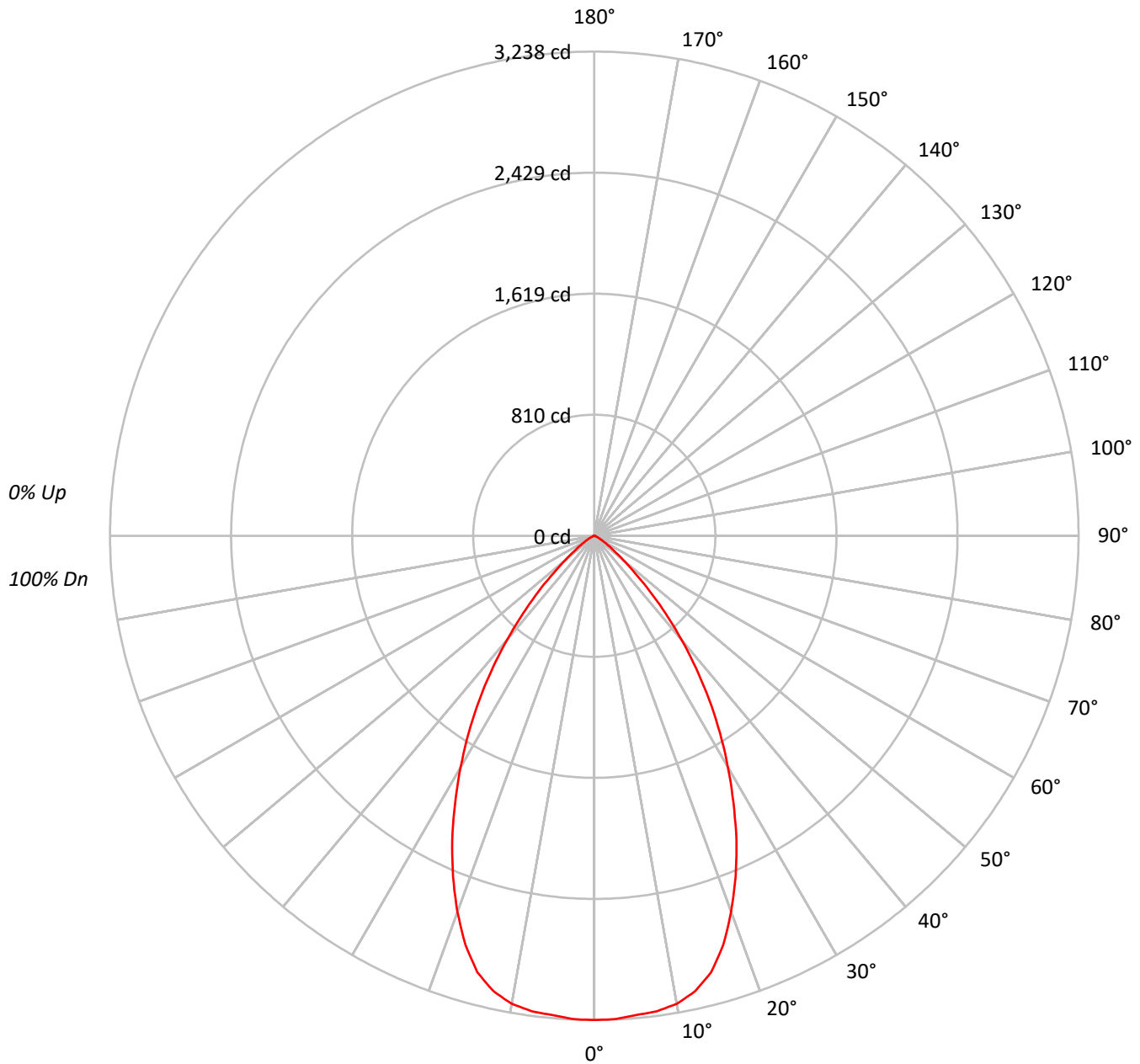


Downlight

TEST NUMBER: P781648

CATALOG NUMBER: LER4D45BD010-EC4DR6540509035-4LBS1B

Luminous Intensity Polar Plot





TEST NUMBER: P781648

CATALOG NUMBER: LER4D45BD010-EC4DR6540509035-4LBS1B

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°	189112
5°	188632
10°	188471
15°	182662
20°	166288
25°	144910
30°	120527
35°	95496
40°	68929
45°	43544
50°	22697
55°	12066
60°	6331
65°	3483
70°	1469
75°	1602
80°	1110
85°	938

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 43544 cd/sqm



TEST NUMBER: P781648

CATALOG NUMBER: LER4D45BD010-EC4DR6540509035-4LBS1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.2	8.6
10°-20°	838.5	23.5
20°-30°	1024.9	28.7
30°-40°	831.6	23.3
40°-50°	414.4	11.6
50°-60°	115.6	3.2
60°-70°	26.3	0.7
70°-80°	6.8	0.2
80°-90°	1.8	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°	2169.7	60.8
0°-40°	3001.3	84.2
0°-60°	3531.3	99.0
0°-90°	3566.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3566.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3238	
5°	3218	306
15°	3021	839
25°	2249	1025
35°	1339	832
45°	527	414
55°	118	116
65°	25	26
75°	7	7
85°	1	2
90°	0	



TEST NUMBER: P781648

CATALOG NUMBER: LER4D45BD010-EC4DR6540509035-4LBS1B

CANDELA DISTRIBUTION (FULL):

	0°
0°	3238.0
2.5°	3235.6
5°	3217.5
7.5°	3207.0
10°	3178.0
12.5°	3119.0
15°	3021.0
17.5°	2867.8
20°	2675.5
22.5°	2468.1
25°	2248.7
27.5°	2014.1
30°	1787.2
32.5°	1563.1
35°	1339.4
37.5°	1116.3
40°	904.1
42.5°	705.2
45°	527.2
47.5°	367.3
50°	249.8
52.5°	172.2
55°	118.5
57.5°	79.9
60°	54.2
62.5°	37.6
65°	25.2
67.5°	12.8
70°	8.6
72.5°	8.1
75°	7.1
77.5°	4.8
80°	3.3
82.5°	2.4
85°	1.4
87.5°	1.0
90°	0.0



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180°







(END OF REPORT)