

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: P781541

Luminaire Tested: LER4D45BD010-EC4DR4540509024-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781541
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D45BD010-EC4DR4540509024-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 45° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3806.9 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Spacing Criteria (0/90/45): 0.75 / 0.75 / 0.69
Luminous Opening: Circular (Dia: 0.35' 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

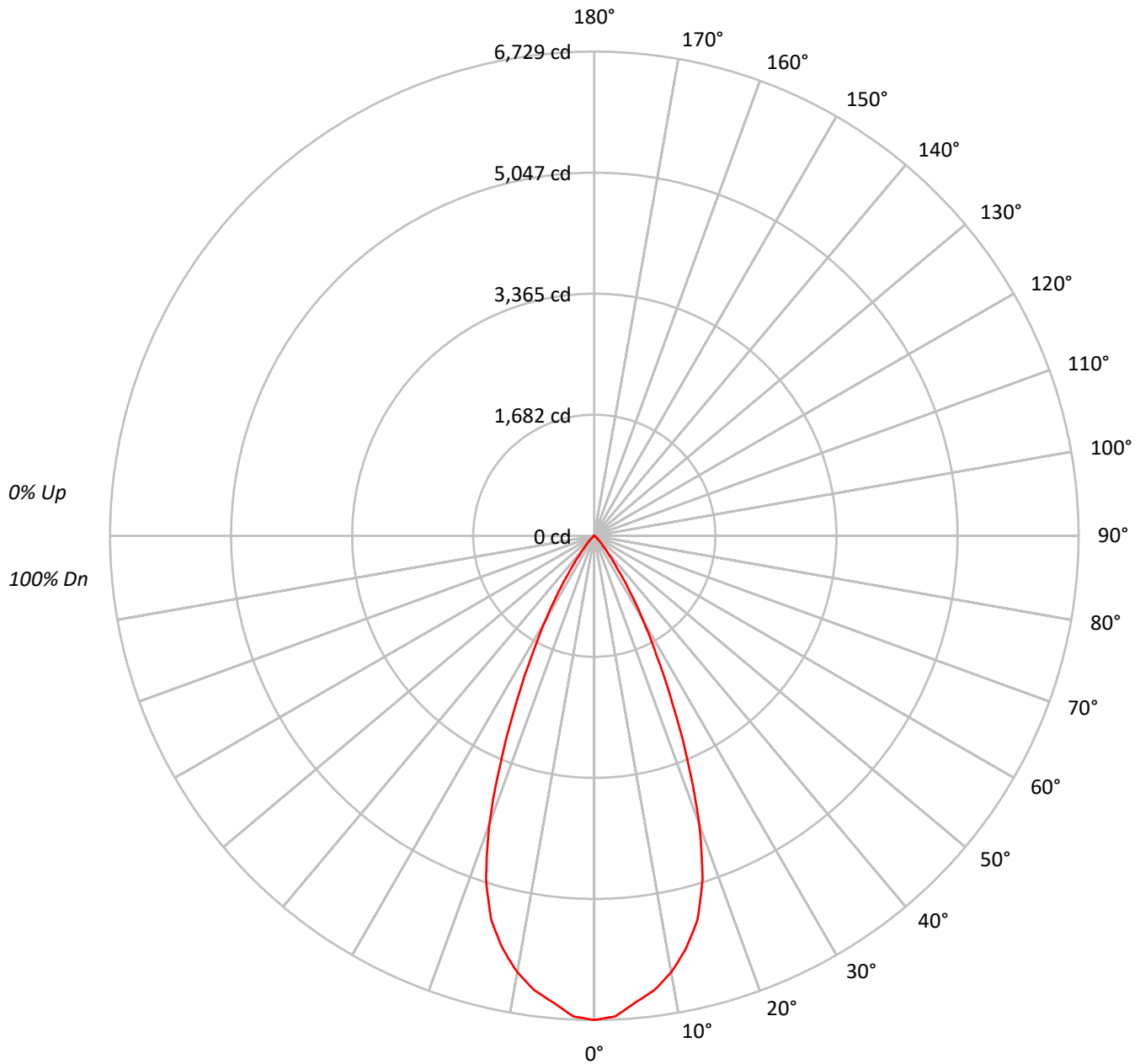


Downlight

TEST NUMBER: P781541

CATALOG NUMBER: LER4D45BD010-EC4DR4540509024-4LBS1H

Luminous Intensity Polar Plot



TEST NUMBER: P781541

CATALOG NUMBER: LER4D45BD010-EC4DR4540509024-4LBS1H

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	114	112	110	108	112	110	108	106	106	104	103		102	101	100		98
2	109	105	102	99	107	103	100	98	100	98	95		97	95	93		95
3	105	99	95	91	103	98	94	91	95	92	89		93	90	88		91
4	100	94	89	85	99	93	88	85	91	87	84		89	86	83		87
5	96	89	84	80	95	88	83	80	86	82	79		85	81	79		83
6	92	85	80	76	91	84	79	76	83	78	75		81	77	75		80
7	89	81	75	72	87	80	75	72	79	74	71		78	74	71		77
8	85	77	72	68	84	76	71	68	75	71	68		74	70	67		73
9	82	73	68	65	81	73	68	65	72	68	65		71	67	64		71
10	79	70	65	62	78	70	65	62	69	65	62		68	64	61		68

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	735183
5°	714257
10°	683351
15°	625413
20°	496171
25°	309768
30°	170737
35°	76668
40°	30195
45°	14231
50°	6748
55°	3524
60°	1726
65°	414
70°	160
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14231 cd/sqm



TEST NUMBER: P781541

CATALOG NUMBER: LER4D45BD010-EC4DR4540509024-4LBS1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	611.9	16.1
10°-20°	1505.9	39.6
20°-30°	1192.6	31.3
30°-40°	397.1	10.4
40°-50°	78.8	2.1
50°-60°	17.9	0.5
60°-70°	2.6	0.1
70°-80°	0.1	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°	3310.4	87.0
0°-40°	3707.5	97.4
0°-60°	3804.3	99.9
0°-90°	3806.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3806.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6729	
5°	6512	612
15°	5529	1506
25°	2570	1193
35°	575	397
45°	92	79
55°	18	18
65°	2	3
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P781541

CATALOG NUMBER: LER4D45BD010-EC4DR4540509024-4LBS1H

CANDELA DISTRIBUTION (FULL):

	0°
0°	6728.7
2.5°	6684.8
5°	6512.3
7.5°	6369.9
10°	6159.3
12.5°	5878.8
15°	5529.0
17.5°	5002.9
20°	4267.3
22.5°	3390.8
25°	2569.5
27.5°	1881.4
30°	1353.3
32.5°	920.3
35°	574.8
37.5°	340.8
40°	211.7
42.5°	139.2
45°	92.1
47.5°	59.3
50°	39.7
52.5°	26.5
55°	18.5
57.5°	12.2
60°	7.9
62.5°	4.2
65°	1.6
67.5°	0.5
70°	0.5
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180°







(END OF REPORT)