

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: P785068

Luminaire Tested: LER4DD45BD010-EC4DR7040509024-4LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P785068
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-73)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4DD45BD010-EC4DR7040509024-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2073.8 lumens
Efficiency: N/A
Efficacy: 53.6 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.82
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

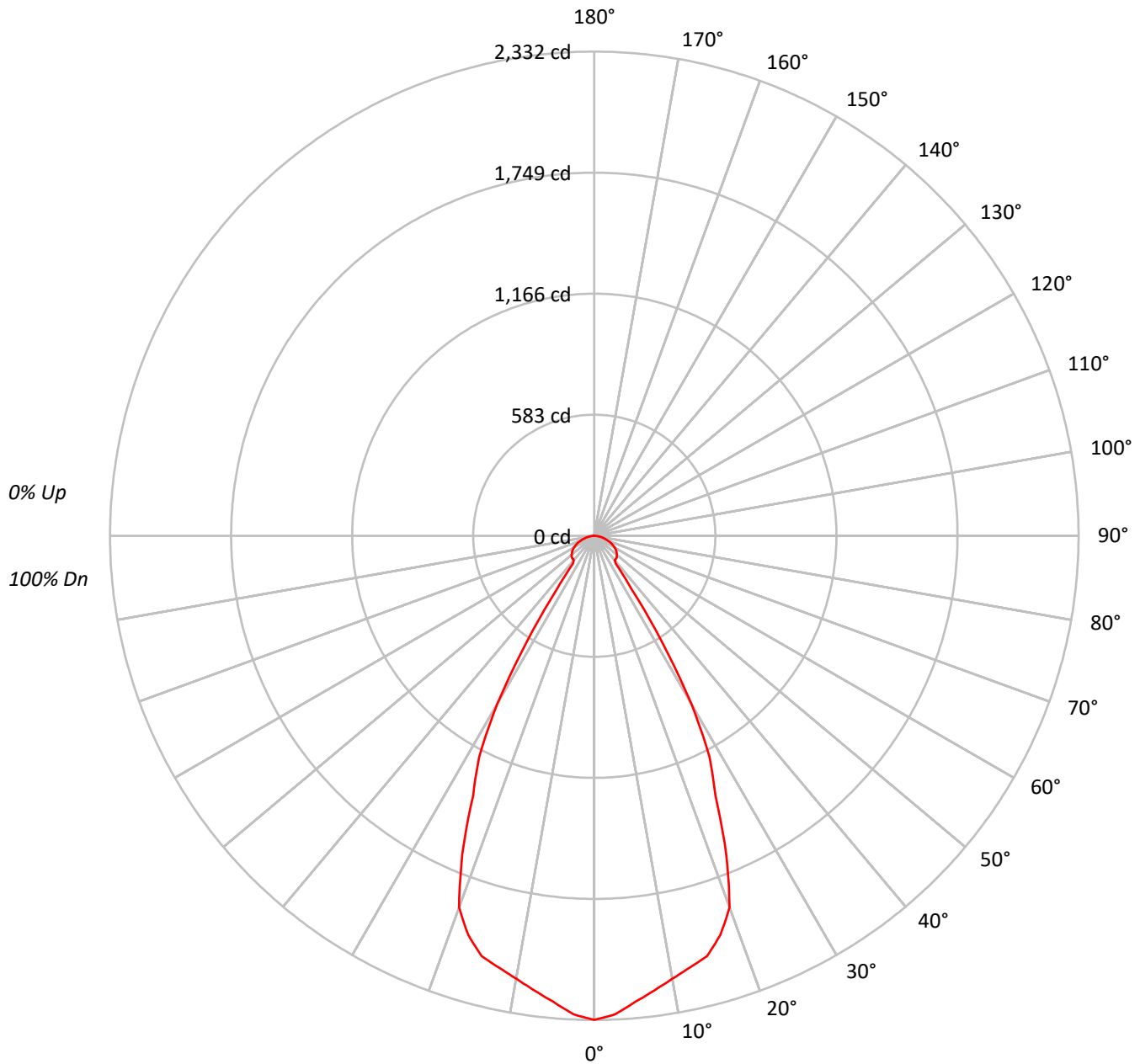


Downlight

TEST NUMBER: P785068

CATALOG NUMBER: LER4DD45BD010-EC4DR7040509024-4LBDP1B

Luminous Intensity Polar Plot



TEST NUMBER: P785068

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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	112	109	106	103	110	107	104	102	103	101	99		99	97	96		95
2	106	100	95	91	103	98	94	90	95	91	88		92	89	86		89
3	100	92	87	82	98	91	86	81	88	84	80		86	82	79		83
4	94	86	80	75	92	85	79	74	82	77	73		80	76	73		78
5	89	80	74	69	87	79	73	69	77	72	68		75	71	67		74
6	85	75	68	64	83	74	68	64	73	67	63		71	66	63		70
7	80	70	64	59	79	70	64	59	68	63	59		67	62	59		66
8	77	66	60	56	75	66	60	56	65	59	55		64	59	55		63
9	73	63	57	52	72	62	56	52	61	56	52		60	55	52		60
10	70	59	53	49	69	59	53	49	58	53	49		57	52	49		57

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	254741
5°	247171
10°	240287
15°	237134
20°	221430
25°	166355
30°	117597
35°	41655
40°	21908
45°	23332
50°	24154
55°	24611
60°	24758
65°	24250
70°	22873
75°	21192
80°	18813
85°	15294

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 57.5°

Luminance: 24768 cd/sqm

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CATALOG NUMBER: LER4DD45BD010-EC4DR7040509024-4LBDP1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.6	10.3
10°-20°	583.1	28.1
20°-30°	642.2	31.0
30°-40°	245.4	11.8
40°-50°	115.9	5.6
50°-60°	115.2	5.6
60°-70°	92.2	4.4
70°-80°	53.0	2.6
80°-90°	14.4	0.7
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°	1437.8	69.3
0°-40°	1683.1	81.2
0°-60°	1914.2	92.3
0°-90°	2073.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2073.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2332	
5°	2254	213
15°	2096	583
25°	1380	642
35°	312	245
45°	151	116
55°	129	115
65°	94	92
75°	50	53
85°	12	14
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2331.5
2.5°	2307.2
5°	2253.6
7.5°	2209.0
10°	2165.8
12.5°	2129.2
15°	2096.4
17.5°	2017.0
20°	1904.4
22.5°	1661.5
25°	1379.9
27.5°	1201.2
30°	932.1
32.5°	602.1
35°	312.3
37.5°	168.7
40°	153.6
42.5°	152.5
45°	151.0
47.5°	147.7
50°	142.1
52.5°	135.8
55°	129.2
57.5°	121.8
60°	113.3
62.5°	103.7
65°	93.8
67.5°	82.7
70°	71.6
72.5°	60.5
75°	50.2
77.5°	39.5
80°	29.9
82.5°	21.0
85°	12.2
87.5°	4.8
90°	0.0



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180°

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report







(END OF REPORT)