

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: P784776

Luminaire Tested: LER4DD40BD010-EC4DR5540509050-4LBDP1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P784776
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-52)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4DD40BD010-EC4DR5540509050-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 55° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3231.3 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.87
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 35.2
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

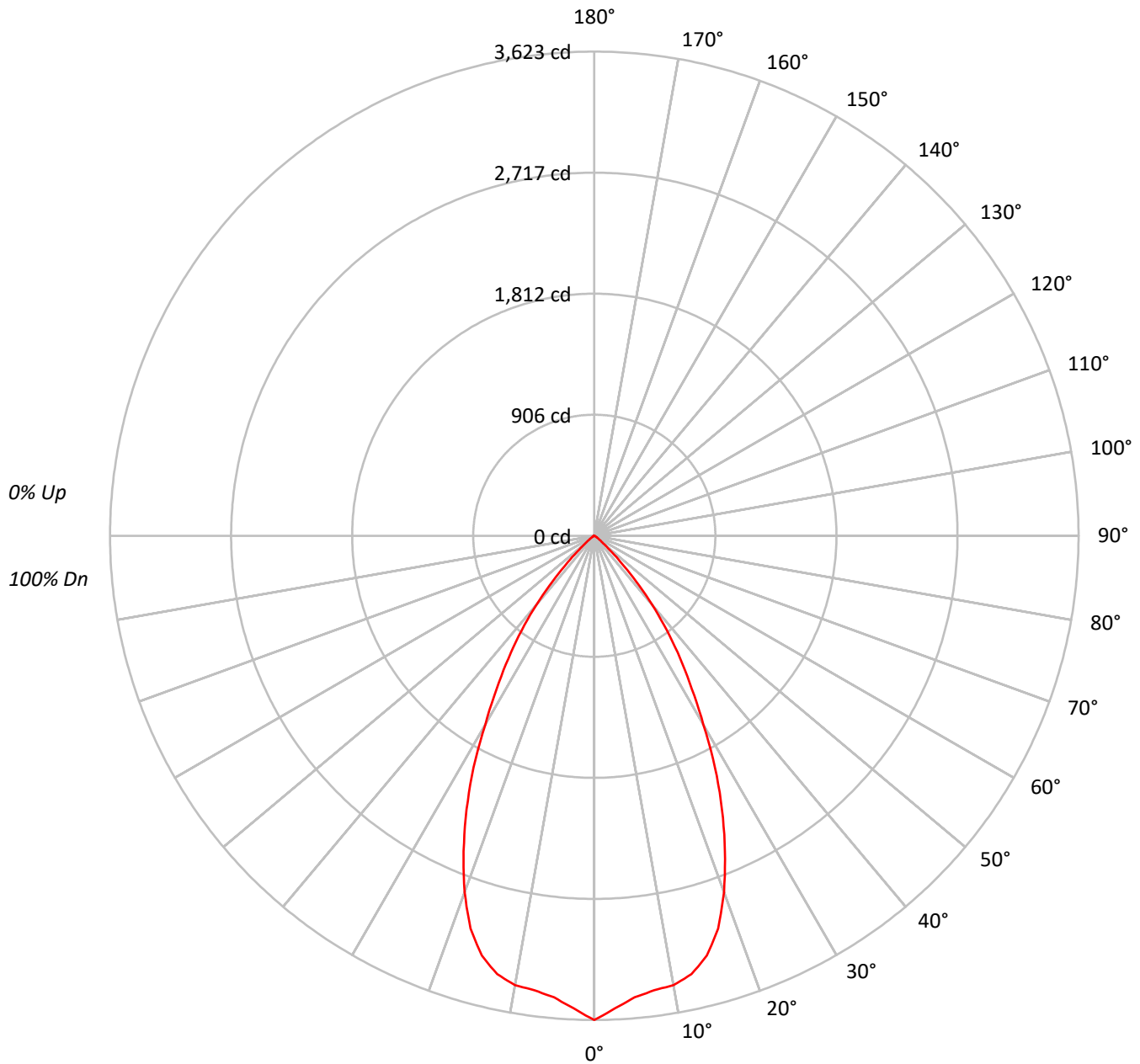


Downlight

TEST NUMBER: P784776

CATALOG NUMBER: LER4DD40BD010-EC4DR5540509050-4LBDP1B

Luminous Intensity Polar Plot



TEST NUMBER: P784776

CATALOG NUMBER: LER4DD40BD010-EC4DR5540509050-4LBDP1B

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	111	108	106	111	109	106	104	105	103	101		101	99	98		97
2	108	103	99	96	106	101	98	95	98	95	92		95	93	90		92
3	102	96	91	87	100	95	90	86	92	88	85		90	86	84		87
4	97	90	84	80	95	88	83	79	86	82	78		84	81	78		82
5	92	84	78	74	91	83	77	73	81	76	73		79	75	72		78
6	88	79	73	68	86	78	72	68	76	71	68		75	70	67		74
7	83	74	68	64	82	73	67	63	72	67	63		71	66	63		70
8	79	69	63	59	78	69	63	59	68	63	59		67	62	59		66
9	75	66	60	56	74	65	59	55	64	59	55		63	58	55		62
10	72	62	56	52	71	61	56	52	61	56	52		60	55	52		59

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	395895
5°	380177
10°	378737
15°	367861
20°	329843
25°	272589
30°	205911
35°	149295
40°	95548
45°	43636
50°	14278
55°	6153
60°	2644
65°	336
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 43636 cd/sqm



TEST NUMBER: P784776

CATALOG NUMBER: LER4DD40BD010-EC4DR5540509050-4LBDP1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	329.8	10.2
10°-20°	900.2	27.9
20°-30°	1025.8	31.7
30°-40°	698.3	21.6
40°-50°	240.6	7.4
50°-60°	33.3	1.0
60°-70°	3.2	0.1
70°-80°	0.0	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°	2255.8	69.8
0°-40°	2954.2	91.4
0°-60°	3228.1	99.9
0°-90°	3231.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3231.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3623	
5°	3466	330
15°	3252	900
25°	2261	1026
35°	1119	698
45°	282	241
55°	32	33
65°	1	3
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P784776

CATALOG NUMBER: LER4DD40BD010-EC4DR5540509050-4LBDP1B

CANDELA DISTRIBUTION (FULL):

	0°
0°	3623.4
2.5°	3540.3
5°	3466.3
7.5°	3429.9
10°	3413.7
12.5°	3359.8
15°	3252.1
17.5°	3081.0
20°	2836.8
22.5°	2554.8
25°	2261.1
27.5°	1955.4
30°	1632.1
32.5°	1358.2
35°	1119.3
37.5°	892.2
40°	669.9
42.5°	464.3
45°	282.4
47.5°	152.2
50°	84.0
52.5°	49.8
55°	32.3
57.5°	20.7
60°	12.1
62.5°	5.4
65°	1.3
67.5°	0.4
70°	0.0
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)