

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: P785170

Luminaire Tested: LER4DD50D010-EC4DR4040509027-4LBDP1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P785170
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-28)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4DD50D010-EC4DR4040509027-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 40° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5149.1 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.6
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 47
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

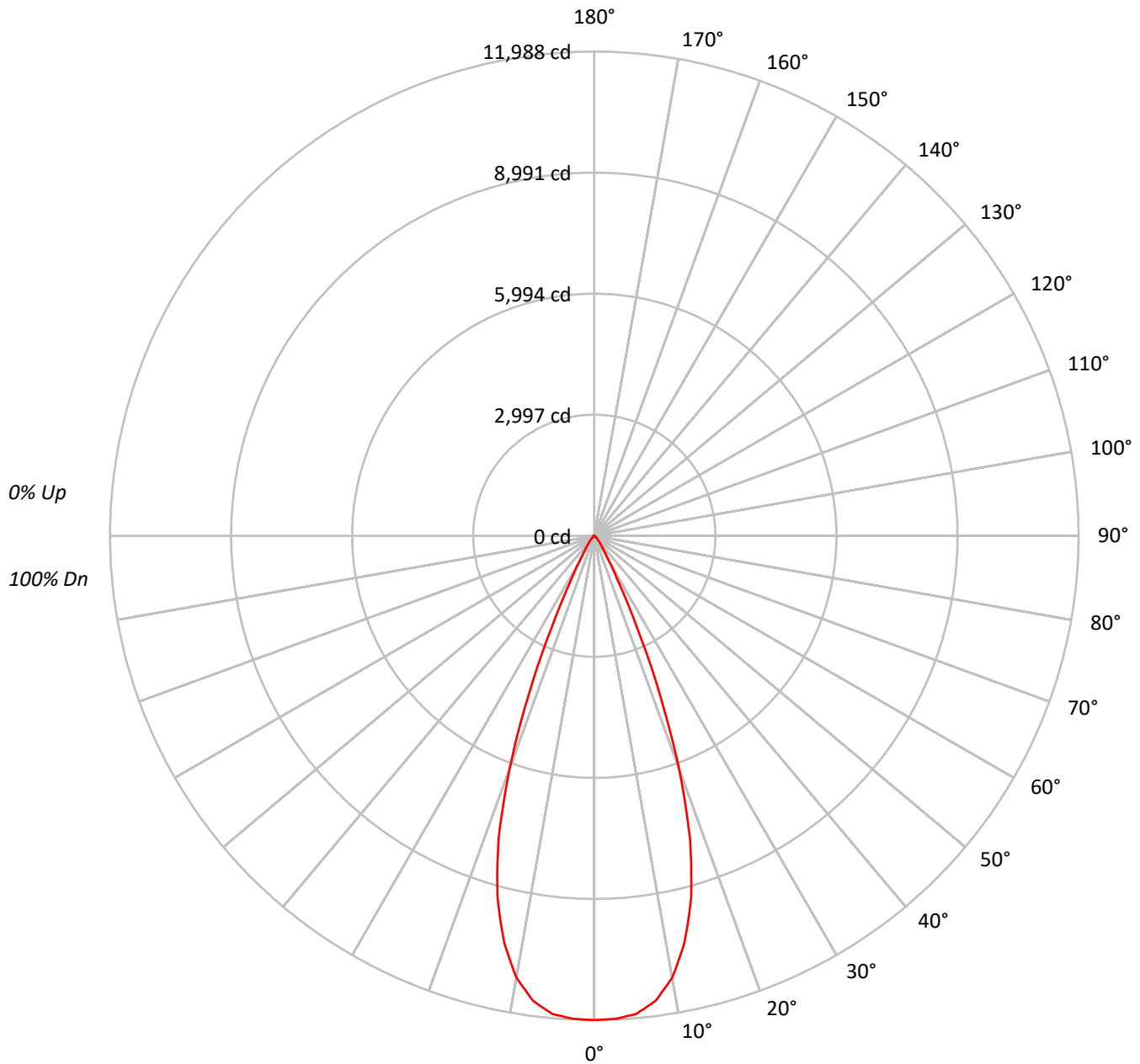


Downlight

TEST NUMBER: P785170

CATALOG NUMBER: LER4DD50D010-EC4DR4040509027-4LBDP1LI

Luminous Intensity Polar Plot





TEST NUMBER: P785170

CATALOG NUMBER: LER4DD50D010-EC4DR4040509027-4LBDP1LI

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	115	112	110	108	112	110	108	107	106	105	103		103	101	100		99
2	110	106	103	100	108	105	102	99	102	99	97		99	97	95		96
3	106	101	97	94	104	100	96	93	97	94	92		95	93	90		93
4	102	97	92	89	101	95	91	88	93	90	87		92	89	86		90
5	99	92	88	84	97	91	87	84	90	86	83		88	85	83		87
6	95	88	84	80	94	88	83	80	86	82	80		85	82	79		84
7	92	85	80	77	91	84	80	77	83	79	76		82	79	76		81
8	89	82	77	74	88	81	77	74	80	76	73		79	76	73		78
9	86	79	74	71	85	78	74	71	77	73	71		76	73	70		76
10	83	76	71	68	82	75	71	68	75	71	68		74	70	68		73

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1309873
5°	1303502
10°	1232092
15°	1047434
20°	713904
25°	297870
30°	93664
35°	43536
40°	24076
45°	11033
50°	5354
55°	2934
60°	1530
65°	543
70°	224
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11033 cd/sqm



TEST NUMBER: P785170

CATALOG NUMBER: LER4DD50D010-EC4DR4040509027-4LBDP1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1109.7	21.6
10°-20°	2486.1	48.3
20°-30°	1244.5	24.2
30°-40°	228.1	4.4
40°-50°	62.9	1.2
50°-60°	14.8	0.3
60°-70°	2.8	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°	4840.3	94.0
0°-40°	5068.5	98.4
0°-60°	5146.2	99.9
0°-90°	5149.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5149.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	11988	
5°	11885	###
15°	9260	2486
25°	2471	1244
35°	326	228
45°	71	63
55°	15	15
65°	2	3
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P785170

CATALOG NUMBER: LER4DD50D010-EC4DR4040509027-4LBDP1LI

CANDELA DISTRIBUTION (FULL):

	0°
0°	11988.5
2.5°	11971.0
5°	11884.8
7.5°	11610.3
10°	11105.3
12.5°	10318.2
15°	9259.9
17.5°	7883.8
20°	6139.9
22.5°	4185.9
25°	2470.8
27.5°	1306.1
30°	742.4
32.5°	479.7
35°	326.4
37.5°	233.2
40°	168.8
42.5°	115.6
45°	71.4
47.5°	45.5
50°	31.5
52.5°	22.4
55°	15.4
57.5°	9.8
60°	7.0
62.5°	4.2
65°	2.1
67.5°	1.4
70°	0.7
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)