

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: P785240

Luminaire Tested: LER4DD50D010-EC4DR5540509027-4LBDP1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P785240
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: LER4DD50D010-EC4DR5540509027-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 55° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3787.4 lumens
Efficiency: N/A
Efficacy: 80.6 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): 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

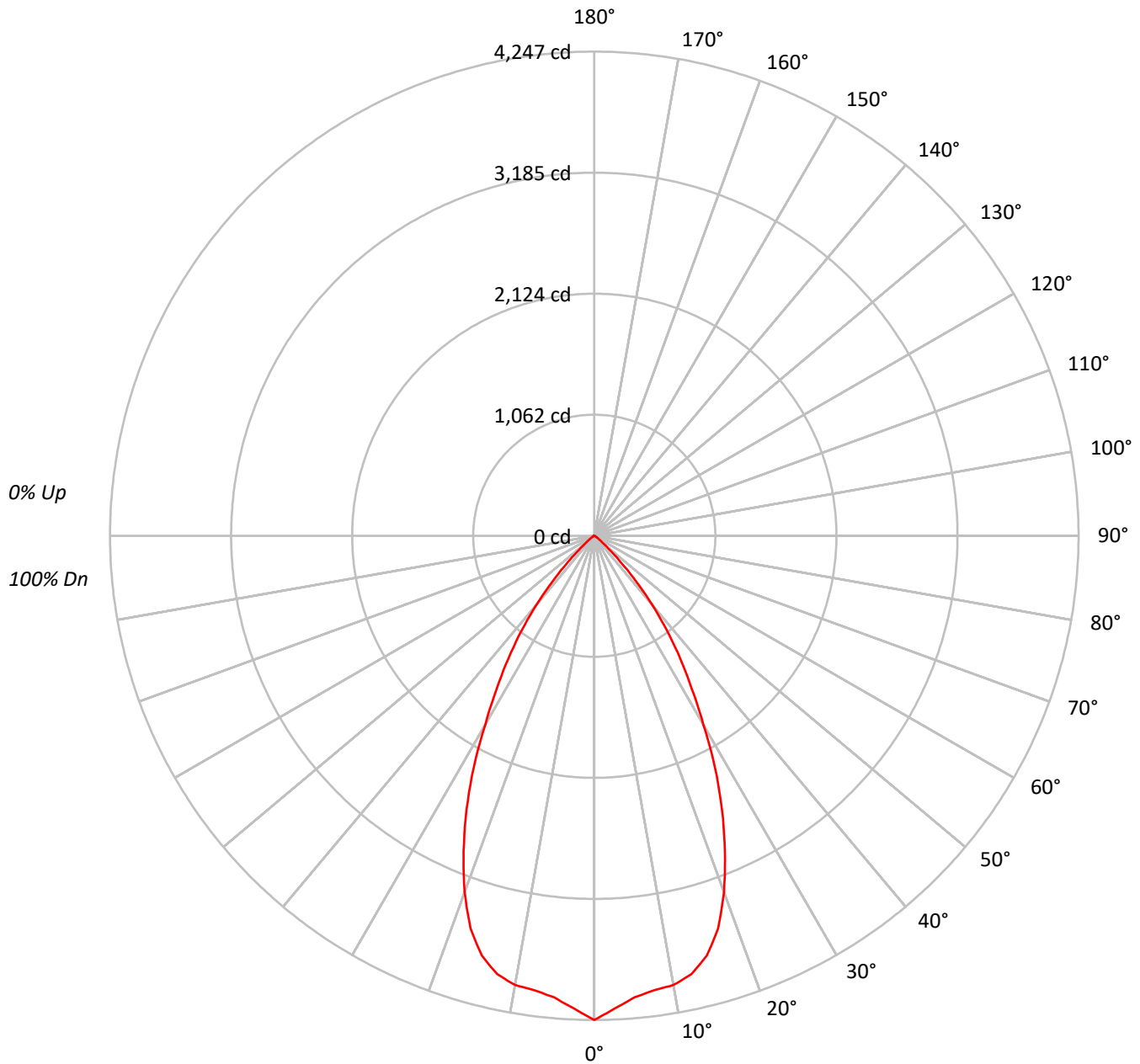


Downlight

TEST NUMBER: P785240

CATALOG NUMBER: LER4DD50D010-EC4DR5540509027-4LBDP1B

Luminous Intensity Polar Plot



TEST NUMBER: P785240

CATALOG NUMBER: LER4DD50D010-EC4DR5540509027-4LBDP1B

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°	464041
5°	445611
10°	443929
15°	431172
20°	386607
25°	319509
30°	241351
35°	174998
40°	111993
45°	51145
50°	16726
55°	7220
60°	3103
65°	414
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 51145 cd/sqm



TEST NUMBER: P785240

CATALOG NUMBER: LER4DD50D010-EC4DR5540509027-4LBDP1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	386.6	10.2
10°-20°	1055.1	27.9
20°-30°	1202.4	31.7
30°-40°	818.5	21.6
40°-50°	282.1	7.4
50°-60°	39.0	1.0
60°-70°	3.8	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°	2644.1	69.8
0°-40°	3462.6	91.4
0°-60°	3783.7	99.9
0°-90°	3787.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3787.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4247	
5°	4063	387
15°	3812	1055
25°	2650	1202
35°	1312	819
45°	331	282
55°	38	39
65°	2	4
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P785240

CATALOG NUMBER: LER4DD50D010-EC4DR5540509027-4LBDP1B

CANDELA DISTRIBUTION (FULL):

	0°
0°	4247.1
2.5°	4149.7
5°	4062.9
7.5°	4020.2
10°	4001.3
12.5°	3938.1
15°	3811.8
17.5°	3611.3
20°	3325.0
22.5°	2994.5
25°	2650.3
27.5°	2291.9
30°	1913.0
32.5°	1592.0
35°	1312.0
37.5°	1045.7
40°	785.2
42.5°	544.2
45°	331.0
47.5°	178.4
50°	98.4
52.5°	58.4
55°	37.9
57.5°	24.2
60°	14.2
62.5°	6.3
65°	1.6
67.5°	0.5
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)