

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: P781684

Luminaire Tested: LER4D50D010-EC4DR2540509024-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781684
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-4)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D50D010-EC4DR2540509024-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 25° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3651.5 lumens
Efficiency: N/A
Efficacy: 77.7 lumens/watt
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.45
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

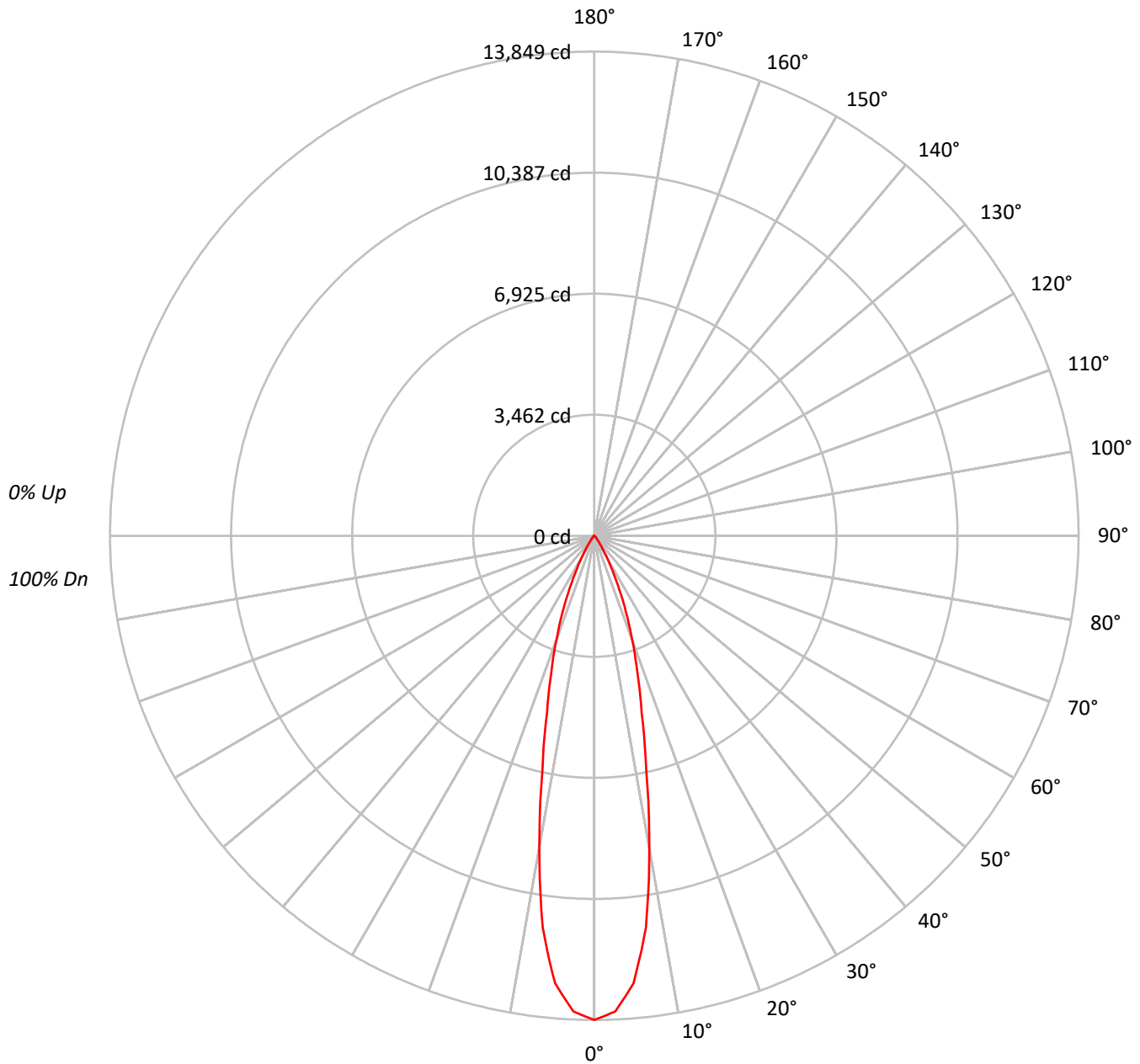


Downlight

TEST NUMBER: P781684

CATALOG NUMBER: LER4D50D010-EC4DR2540509024-4LBS1B

Luminous Intensity Polar Plot





TEST NUMBER: P781684

CATALOG NUMBER: LER4D50D010-EC4DR2540509024-4LBS1B

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	115	113	111	109	112	110	109	107		106	105	104		103	102	101		99	99	98
2	111	107	104	101	109	105	102	100		102	100	98		99	97	96		97	95	94
3	107	102	98	95	105	101	97	94		98	95	93		96	93	91		94	92	90
4	103	97	93	90	102	96	93	90		94	91	89		93	90	88		91	89	87
5	100	93	89	86	98	93	89	86		91	87	85		89	86	84		88	85	83
6	97	90	85	82	95	89	85	82		88	84	81		87	83	81		85	83	80
7	93	87	82	79	92	86	82	79		85	81	78		84	80	78		83	80	78
8	91	84	79	76	90	83	79	76		82	78	76		81	78	75		80	77	75
9	88	81	76	73	87	80	76	73		80	76	73		79	75	73		78	75	73
10	85	78	74	71	85	78	74	71		77	73	71		76	73	71		76	73	70

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1513163
5°	1409320
10°	1005306
15°	592089
20°	368411
25°	202184
30°	92465
35°	35013
40°	15860
45°	9534
50°	3961
55°	2553
60°	1770
65°	1215
70°	192
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9534 cd/sqm



TEST NUMBER: P781684

CATALOG NUMBER: LER4D50D010-EC4DR2540509024-4LBS1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1104.3	30.2
10°-20°	1495.7	41.0
20°-30°	791.5	21.7
30°-40°	195.4	5.4
40°-50°	47.7	1.3
50°-60°	12.5	0.3
60°-70°	4.2	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°	3391.6	92.9
0°-40°	3587.0	98.2
0°-60°	3647.2	99.9
0°-90°	3651.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3651.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	13849	
5°	12850	###
15°	5234	1496
25°	1677	792
35°	262	195
45°	62	48
55°	13	13
65°	5	4
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P781684

CATALOG NUMBER: LER4D50D010-EC4DR2540509024-4LBS1B

CANDELA DISTRIBUTION (FULL):

	0°
0°	13849.1
2.5°	13621.5
5°	12849.6
7.5°	11298.9
10°	9061.2
12.5°	6849.8
15°	5234.4
17.5°	4079.5
20°	3168.5
22.5°	2376.2
25°	1677.1
27.5°	1124.6
30°	732.9
32.5°	445.9
35°	262.5
37.5°	160.7
40°	111.2
42.5°	85.0
45°	61.7
47.5°	37.3
50°	23.3
52.5°	16.9
55°	13.4
57.5°	10.5
60°	8.1
62.5°	6.4
65°	4.7
67.5°	1.7
70°	0.6
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)