

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: P781780

Luminaire Tested: LER4D50D010-EC4DR4540509024-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781780
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D50D010-EC4DR4540509024-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 45° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4187.0 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Spacing Criteria (0/90/45): 0.75 / 0.75 / 0.69
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

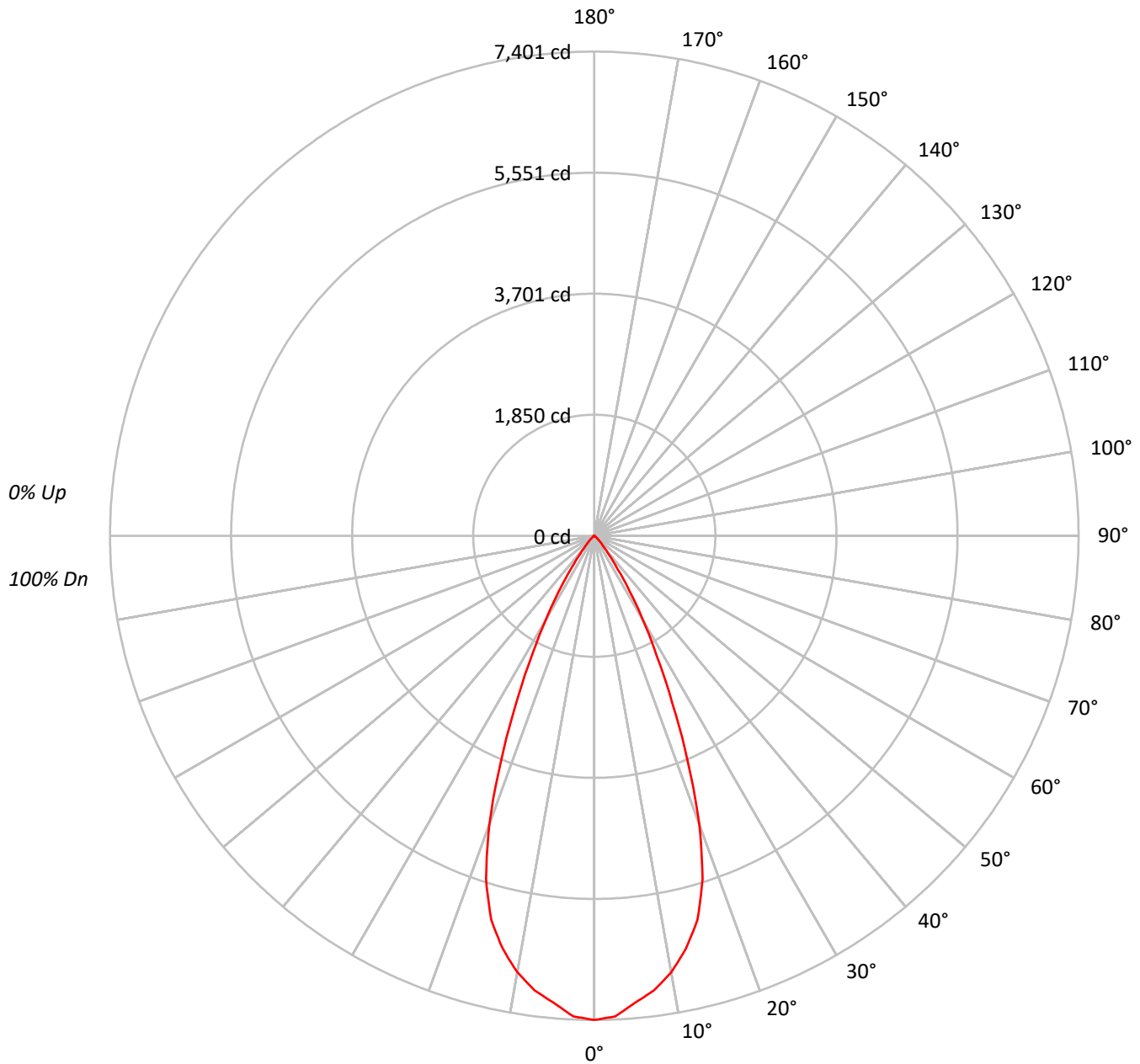


Downlight

TEST NUMBER: P781780

CATALOG NUMBER: LER4D50D010-EC4DR4540509024-4LBS1B

Luminous Intensity Polar Plot



TEST NUMBER: P781780

CATALOG NUMBER: LER4D50D010-EC4DR4540509024-4LBS1B

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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	98	98	97	95		
2	109	105	102	99	107	103	100	98	100	98	95	97	95	93	95	93	91	90		
3	105	99	95	91	103	98	94	91	95	92	89	93	90	88	91	89	87	85		
4	100	94	89	85	99	93	88	85	91	87	84	89	86	83	87	84	82	81		
5	96	89	84	80	95	88	83	80	86	82	79	85	81	79	83	80	78	77		
6	92	85	80	76	91	84	79	76	83	78	75	81	77	75	80	77	74	73		
7	89	81	75	72	87	80	75	72	79	74	71	78	74	71	77	73	71	69		
8	85	77	72	68	84	76	71	68	75	71	68	74	70	67	73	70	67	66		
9	82	73	68	65	81	73	68	65	72	68	65	71	67	64	71	67	64	63		
10	79	70	65	62	78	70	65	62	69	65	62	68	64	61	68	64	61	60		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	808595
5°	785569
10°	751572
15°	687853
20°	545703
25°	340691
30°	187782
35°	84311
40°	33204
45°	15653
50°	7428
55°	3886
60°	1901
65°	440
70°	192
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 15653 cd/sqm



TEST NUMBER: P781780

CATALOG NUMBER: LER4D50D010-EC4DR4540509024-4LBS1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	673.0	16.1
10°-20°	1656.3	39.6
20°-30°	1311.6	31.3
30°-40°	436.8	10.4
40°-50°	86.7	2.1
50°-60°	19.7	0.5
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°	3640.9	87.0
0°-40°	4077.7	97.4
0°-60°	4184.1	99.9
0°-90°	4187.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4187.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7401	
5°	7162	673
15°	6081	1656
25°	2826	1312
35°	632	437
45°	101	87
55°	20	20
65°	2	3
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P781780

CATALOG NUMBER: LER4D50D010-EC4DR4540509024-4LBS1B

CANDELA DISTRIBUTION (FULL):

	0°
0°	7400.6
2.5°	7352.3
5°	7162.5
7.5°	7005.9
10°	6774.2
12.5°	6465.7
15°	6081.0
17.5°	5502.4
20°	4693.3
22.5°	3729.4
25°	2826.0
27.5°	2069.3
30°	1488.4
32.5°	1012.2
35°	632.1
37.5°	374.9
40°	232.8
42.5°	153.1
45°	101.3
47.5°	65.2
50°	43.7
52.5°	29.1
55°	20.4
57.5°	13.4
60°	8.7
62.5°	4.7
65°	1.7
67.5°	0.6
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)