

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: P781767

Luminaire Tested: LER4D50D010-EC4DR4040509030-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781767
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: LER4D50D010-EC4DR4040509030-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 40° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5052.0 lumens
Efficiency: N/A
Efficacy: 107.5 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

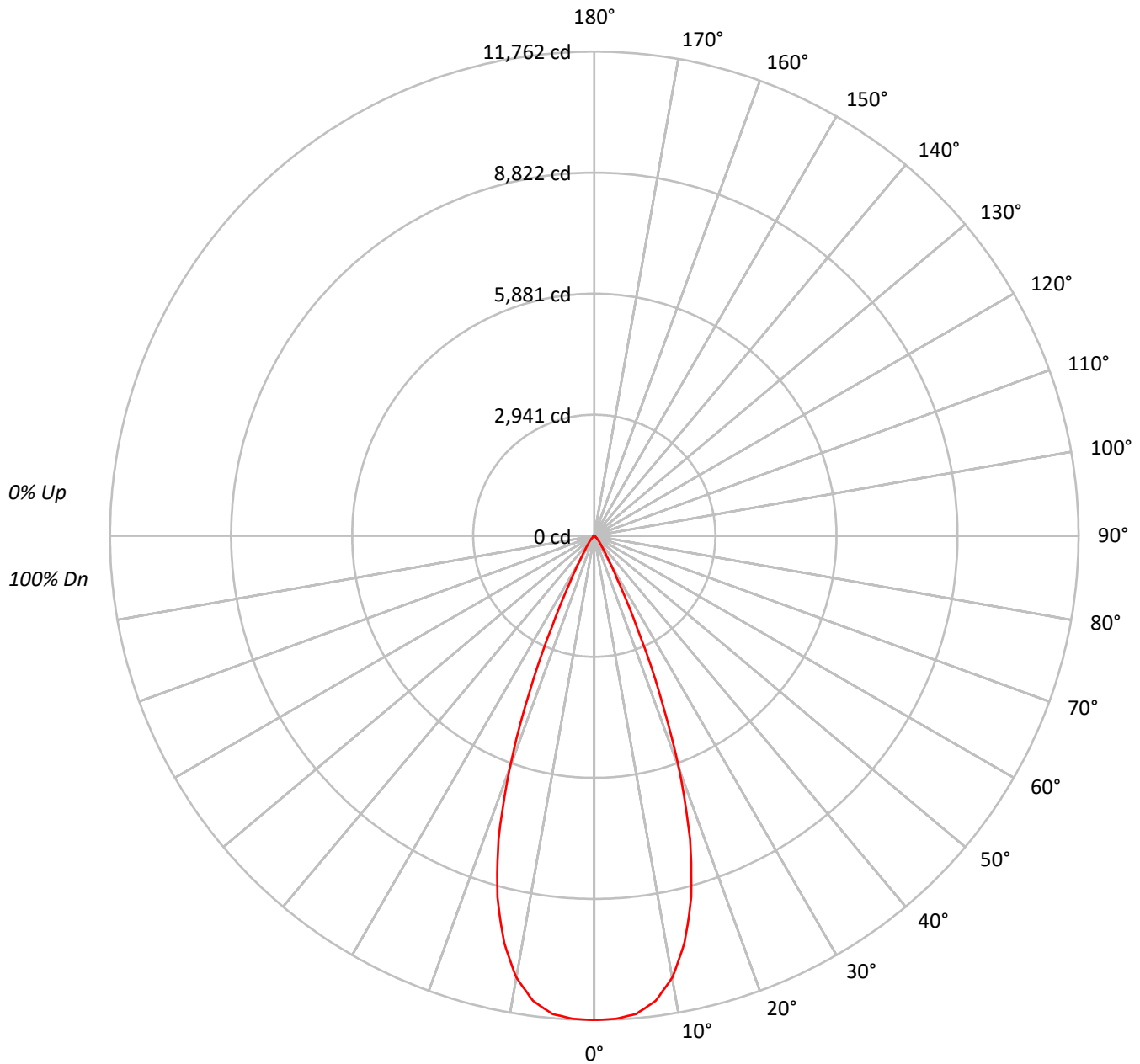


Downlight

TEST NUMBER: P781767

CATALOG NUMBER: LER4D50D010-EC4DR4040509030-4LBS1MW

Luminous Intensity Polar Plot





TEST NUMBER: P781767

CATALOG NUMBER: LER4D50D010-EC4DR4040509030-4LBS1MW

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°	1285169
5°	1278924
10°	1208860
15°	1027684
20°	700439
25°	292252
30°	91897
35°	42709
40°	23619
45°	10832
50°	5252
55°	2876
60°	1508
65°	543
70°	224
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10832 cd/sqm



TEST NUMBER: P781767

CATALOG NUMBER: LER4D50D010-EC4DR4040509030-4LBS1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1088.8	21.6
10°-20°	2439.2	48.3
20°-30°	1221.0	24.2
30°-40°	223.8	4.4
40°-50°	61.8	1.2
50°-60°	14.5	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°	4749.0	94.0
0°-40°	4972.9	98.4
0°-60°	5049.1	99.9
0°-90°	5052.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5052.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	11762	
5°	11661	###
15°	9085	2439
25°	2424	1221
35°	320	224
45°	70	62
55°	15	15
65°	2	3
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P781767

CATALOG NUMBER: LER4D50D010-EC4DR4040509030-4LBS1MW

CANDELA DISTRIBUTION (FULL):

	0°
0°	11762.4
2.5°	11745.2
5°	11660.7
7.5°	11391.3
10°	10895.9
12.5°	10123.6
15°	9085.3
17.5°	7735.1
20°	6024.1
22.5°	4107.0
25°	2424.2
27.5°	1281.5
30°	728.4
32.5°	470.7
35°	320.2
37.5°	228.8
40°	165.6
42.5°	113.4
45°	70.1
47.5°	44.7
50°	30.9
52.5°	22.0
55°	15.1
57.5°	9.6
60°	6.9
62.5°	4.1
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)