

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: P781868

Luminaire Tested: LER4D50D010-EC4DR6040509040-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781868
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-60)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D50D010-EC4DR6040509040-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5063.7 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.92
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

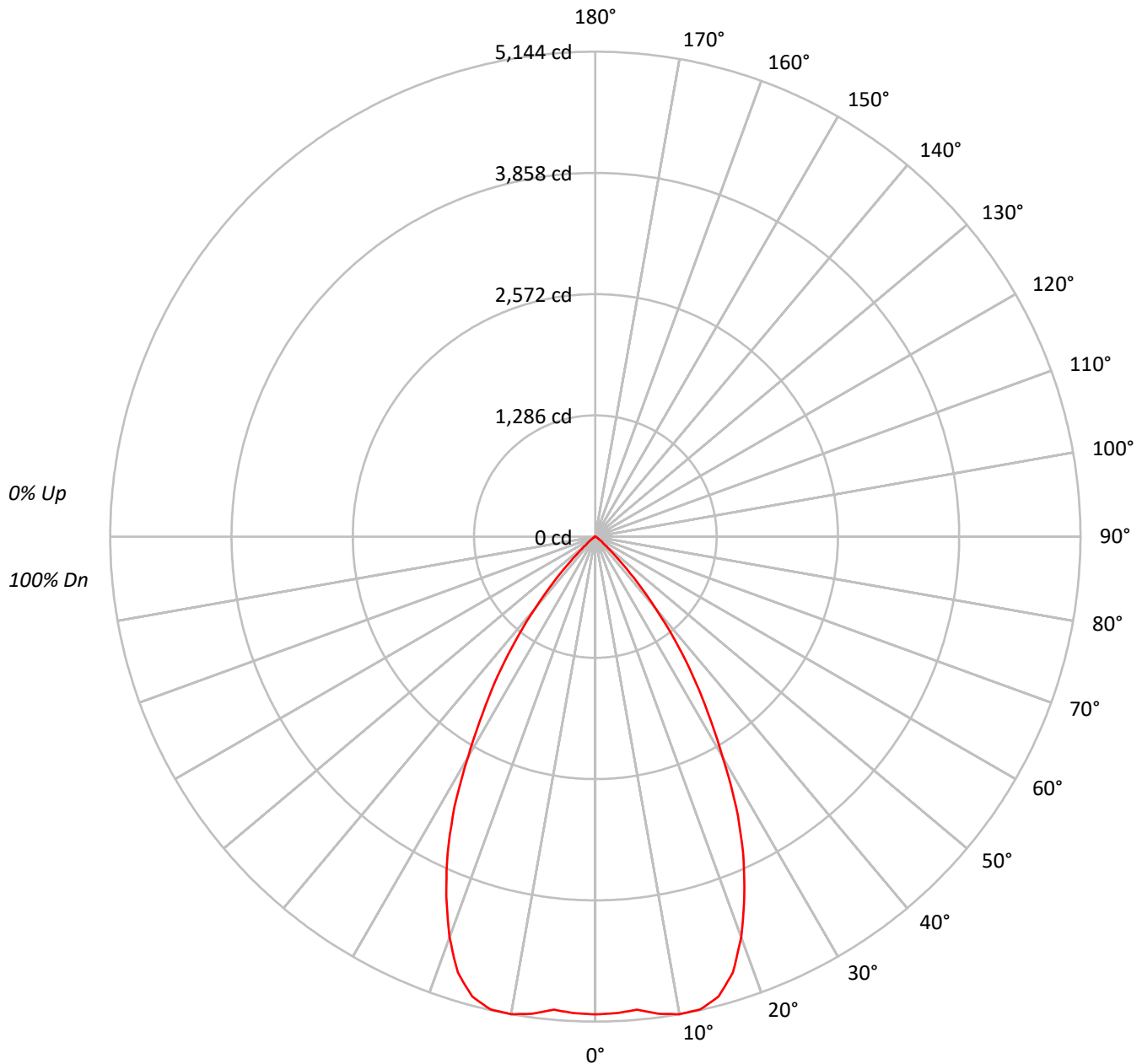


Downlight

TEST NUMBER: P781868

CATALOG NUMBER: LER4D50D010-EC4DR6040509040-4LBS1B

Luminous Intensity Polar Plot



TEST NUMBER: P781868

CATALOG NUMBER: LER4D50D010-EC4DR6040509040-4LBS1B

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
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	87	79	73	68	86	78	72	68	76	71	68		75	70	67		74
7	83	74	68	63	82	73	67	63	72	67	63		71	66	63		69
8	79	69	63	59	78	69	63	59	68	63	59		67	62	59		66
9	75	65	59	55	74	65	59	55	64	59	55		63	58	55		62
10	72	62	56	52	71	61	56	52	61	55	52		60	55	52		59

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	553668
5°	552317
10°	570663
15°	571242
20°	525611
25°	447070
30°	340654
35°	240889
40°	141460
45°	57079
50°	19055
55°	9182
60°	3759
65°	569
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 57079 cd/sqm



TEST NUMBER: P781868

CATALOG NUMBER: LER4D50D010-EC4DR6040509040-4LBS1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	485.8	9.6
10°-20°	1399.1	27.6
20°-30°	1674.5	33.1
30°-40°	1120.0	22.1
40°-50°	332.1	6.6
50°-60°	47.7	0.9
60°-70°	4.5	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°	3559.4	70.3
0°-40°	4679.3	92.4
0°-60°	5059.1	99.9
0°-90°	5063.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5063.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5067	
5°	5036	486
15°	5050	1399
25°	3708	1675
35°	1806	1120
45°	369	332
55°	48	48
65°	2	5
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P781868

CATALOG NUMBER: LER4D50D010-EC4DR6040509040-4LBS1B

CANDELA DISTRIBUTION (FULL):

	0°
0°	5067.4
2.5°	5060.9
5°	5035.8
7.5°	5104.0
10°	5143.6
12.5°	5136.4
15°	5050.1
17.5°	4846.8
20°	4520.5
22.5°	4128.8
25°	3708.4
27.5°	3234.8
30°	2700.1
32.5°	2222.9
35°	1806.0
37.5°	1388.5
40°	991.8
42.5°	654.0
45°	369.4
47.5°	189.0
50°	112.1
52.5°	72.6
55°	48.2
57.5°	30.9
60°	17.2
62.5°	7.2
65°	2.2
67.5°	0.7
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)