

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: P781846

Luminaire Tested: LER4D50D010-EC4DR5540509040-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781846
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: LER4D50D010-EC4DR5540509040-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 55° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5785.6 lumens
Efficiency: N/A
Efficacy: 123.1 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

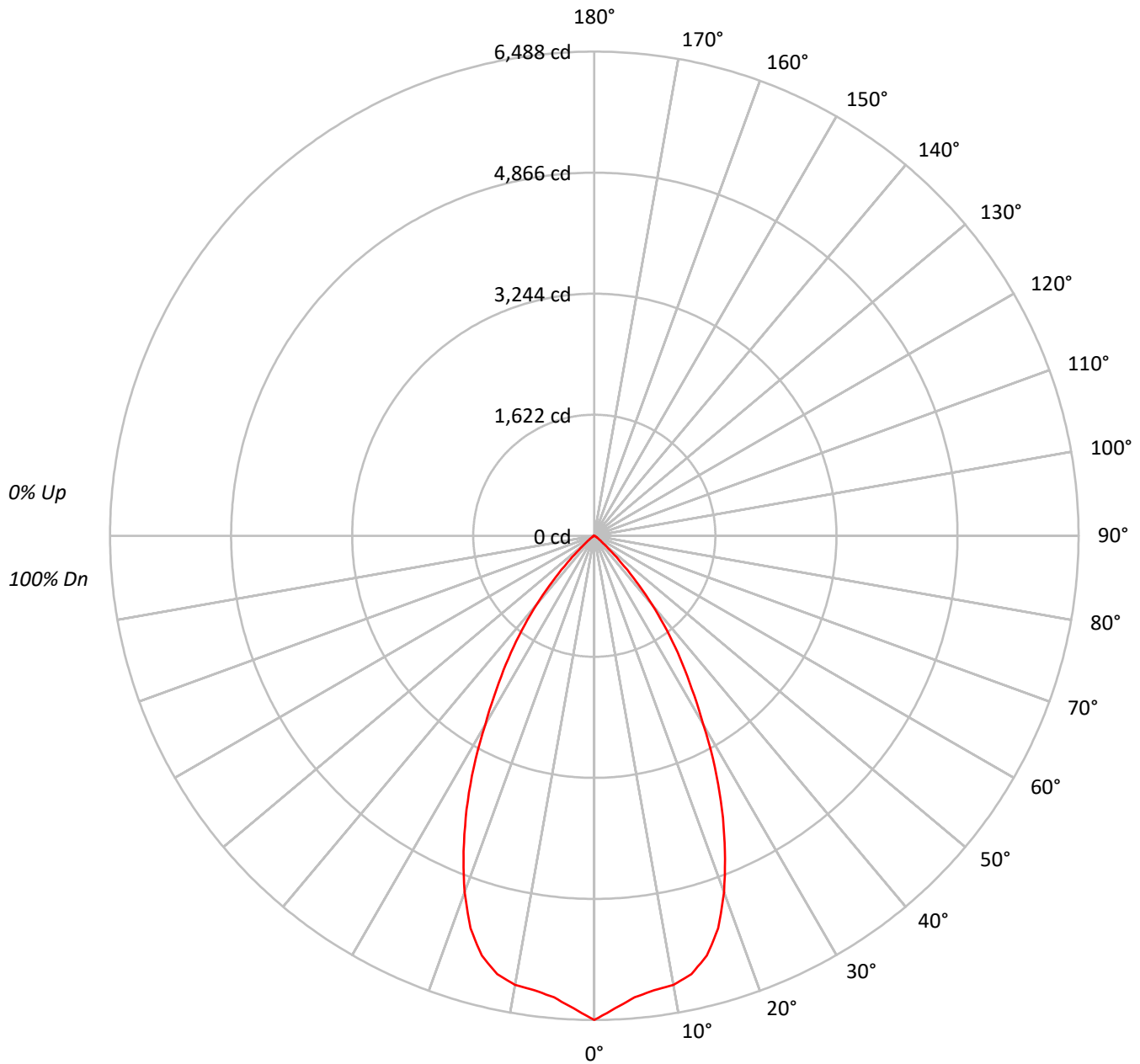


Downlight

TEST NUMBER: P781846

CATALOG NUMBER: LER4D50D010-EC4DR5540509040-4LBS1LI

Luminous Intensity Polar Plot





TEST NUMBER: P781846

CATALOG NUMBER: LER4D50D010-EC4DR5540509040-4LBS1LI

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°	708851
5°	680695
10°	678126
15°	658646
20°	590573
25°	488083
30°	368687
35°	267326
40°	171084
45°	78140
50°	25548
55°	11029
60°	4742
65°	620
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 78140 cd/sqm



TEST NUMBER: P781846

CATALOG NUMBER: LER4D50D010-EC4DR5540509040-4LBS1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	590.6	10.2
10°-20°	1611.7	27.9
20°-30°	1836.7	31.7
30°-40°	1250.4	21.6
40°-50°	430.9	7.4
50°-60°	59.6	1.0
60°-70°	5.7	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°	4039.1	69.8
0°-40°	5289.4	91.4
0°-60°	5779.9	99.9
0°-90°	5785.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5785.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6488	
5°	6206	591
15°	5823	1612
25°	4049	1837
35°	2004	1250
45°	506	431
55°	58	60
65°	2	6
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P781846

CATALOG NUMBER: LER4D50D010-EC4DR5540509040-4LBS1LI

CANDELA DISTRIBUTION (FULL):

	0°
0°	6487.7
2.5°	6338.9
5°	6206.3
7.5°	6141.2
10°	6112.2
12.5°	6015.7
15°	5822.8
17.5°	5516.5
20°	5079.2
22.5°	4574.3
25°	4048.6
27.5°	3501.1
30°	2922.3
32.5°	2431.9
35°	2004.2
37.5°	1597.4
40°	1199.5
42.5°	831.3
45°	505.7
47.5°	272.5
50°	150.3
52.5°	89.2
55°	57.9
57.5°	37.0
60°	21.7
62.5°	9.6
65°	2.4
67.5°	0.8
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)