

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: P781847

Luminaire Tested: LER4D50D010-EC4DR5540509040-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781847
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-EC4DR5540509040-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 55° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5235.4 lumens
Efficiency: N/A
Efficacy: 111.4 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 (A_{in}): 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

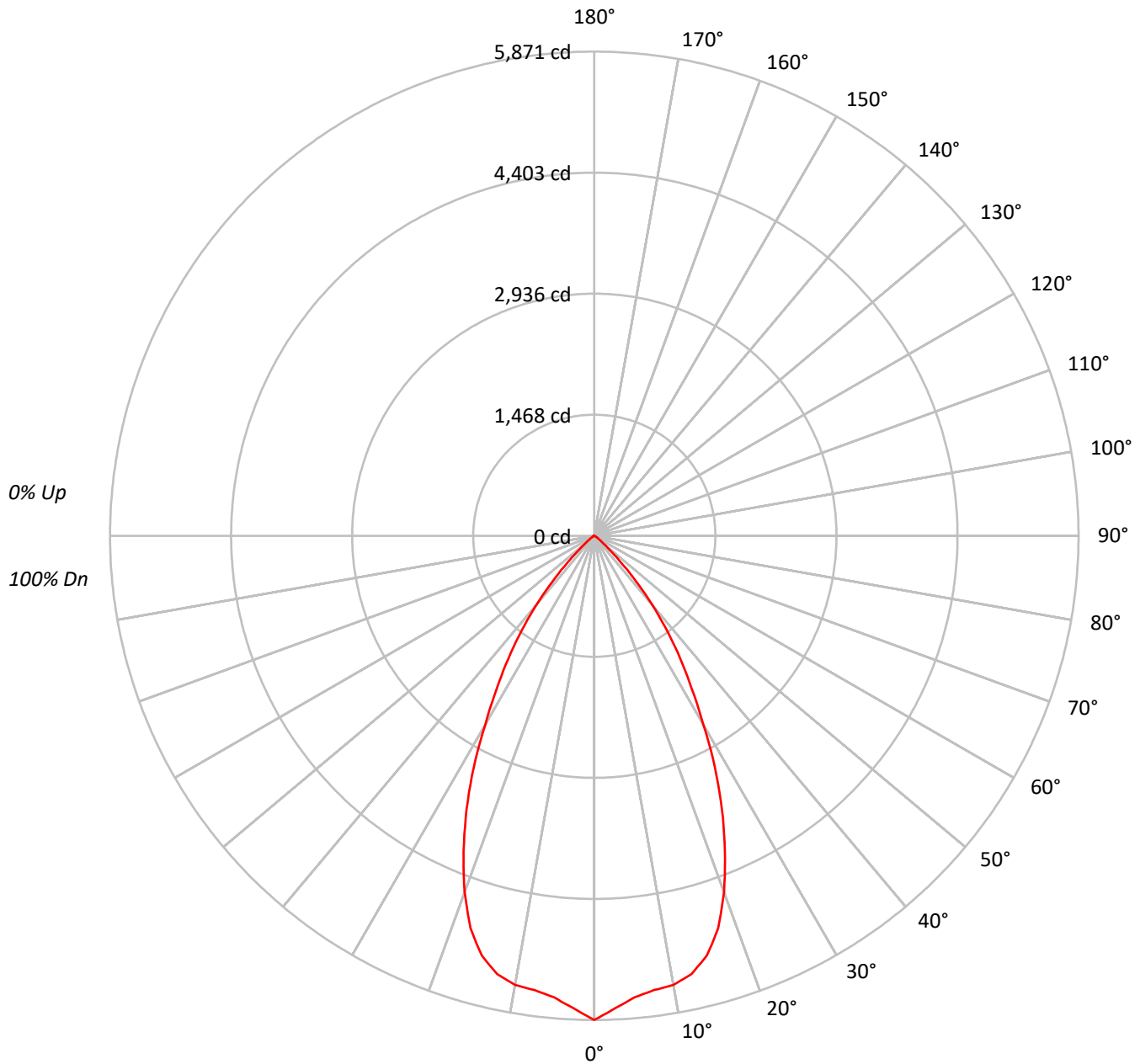


Downlight

TEST NUMBER: P781847

CATALOG NUMBER: LER4D50D010-EC4DR5540509040-4LBS1MW

Luminous Intensity Polar Plot





TEST NUMBER: P781847

CATALOG NUMBER: LER4D50D010-EC4DR5540509040-4LBS1MW

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	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	114	111	108	106		111	109	106	104		105	103	101		101	99	98		97	96	95
2	108	103	99	96		106	101	98	95		98	95	92		95	93	90		92	90	89
3	102	96	91	87		100	95	90	86		92	88	85		90	86	84		87	85	82
4	97	90	84	80		95	88	83	79		86	82	78		84	81	78		82	79	77
5	92	84	78	74		91	83	77	73		81	76	73		79	75	72		78	74	71
6	88	79	73	68		86	78	72	68		76	71	68		75	70	67		74	70	67
7	83	74	68	64		82	73	67	63		72	67	63		71	66	63		70	65	62
8	79	69	63	59		78	69	63	59		68	63	59		67	62	59		66	62	58
9	75	66	60	56		74	65	59	55		64	59	55		63	58	55		62	58	55
10	72	62	56	52		71	61	56	52		61	56	52		60	55	52		59	55	52

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	641437
5°	615963
10°	613633
15°	596015
20°	534402
25°	441657
30°	333614
35°	241903
40°	154810
45°	70707
50°	23117
55°	9982
60°	4283
65°	569
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 70707 cd/sqm



TEST NUMBER: P781847

CATALOG NUMBER: LER4D50D010-EC4DR5540509040-4LBS1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	534.4	10.2
10°-20°	1458.5	27.9
20°-30°	1662.1	31.7
30°-40°	1131.5	21.6
40°-50°	389.9	7.4
50°-60°	53.9	1.0
60°-70°	5.2	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°	3654.9	69.8
0°-40°	4786.4	91.4
0°-60°	5230.2	99.9
0°-90°	5235.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5235.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5871	
5°	5616	534
15°	5269	1458
25°	3664	1662
35°	1814	1131
45°	458	390
55°	52	54
65°	2	5
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P781847

CATALOG NUMBER: LER4D50D010-EC4DR5540509040-4LBS1MW

CANDELA DISTRIBUTION (FULL):

	0°
0°	5870.7
2.5°	5736.1
5°	5616.1
7.5°	5557.1
10°	5530.9
12.5°	5443.6
15°	5269.1
17.5°	4991.9
20°	4596.1
22.5°	4139.3
25°	3663.5
27.5°	3168.1
30°	2644.3
32.5°	2200.6
35°	1813.6
37.5°	1445.5
40°	1085.4
42.5°	752.2
45°	457.6
47.5°	246.6
50°	136.0
52.5°	80.7
55°	52.4
57.5°	33.5
60°	19.6
62.5°	8.7
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)