

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: P781835

Luminaire Tested: LER4D50D010-EC4DR5540509027-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781835
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-EC4DR5540509027-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 55° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4804.2 lumens
Efficiency: N/A
Efficacy: 102.2 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

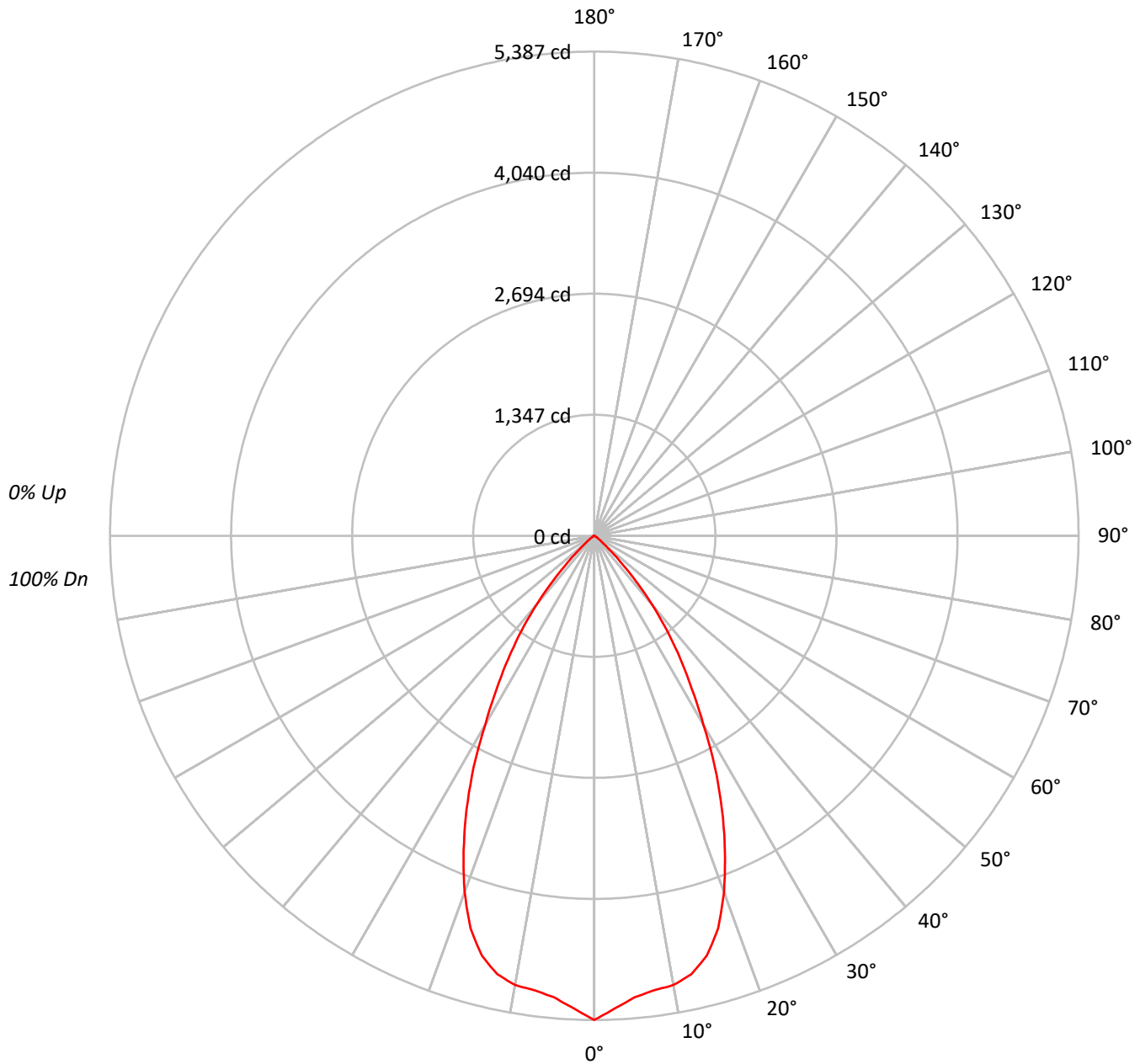


Downlight

TEST NUMBER: P781835

CATALOG NUMBER: LER4D50D010-EC4DR5540509027-4LBS1MW

Luminous Intensity Polar Plot





TEST NUMBER: P781835

CATALOG NUMBER: LER4D50D010-EC4DR5540509027-4LBS1MW

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	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°	588610
5°	565237
10°	563108
15°	546923
20°	490392
25°	405285
30°	306148
35°	221976
40°	142059
45°	64882
50°	21213
55°	9163
60°	3933
65°	517
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 64882 cd/sqm



TEST NUMBER: P781835

CATALOG NUMBER: LER4D50D010-EC4DR5540509027-4LBS1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	490.4	10.2
10°-20°	1338.4	27.9
20°-30°	1525.2	31.7
30°-40°	1038.3	21.6
40°-50°	357.8	7.4
50°-60°	49.5	1.0
60°-70°	4.8	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°	3353.9	69.8
0°-40°	4392.2	91.4
0°-60°	4799.5	99.9
0°-90°	4804.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4804.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5387	
5°	5154	490
15°	4835	1338
25°	3362	1525
35°	1664	1038
45°	420	358
55°	48	49
65°	2	5
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P781835

CATALOG NUMBER: LER4D50D010-EC4DR5540509027-4LBS1MW

CANDELA DISTRIBUTION (FULL):

	0°
0°	5387.2
2.5°	5263.7
5°	5153.6
7.5°	5099.5
10°	5075.5
12.5°	4995.3
15°	4835.1
17.5°	4580.8
20°	4217.6
22.5°	3798.4
25°	3361.8
27.5°	2907.2
30°	2426.6
32.5°	2019.4
35°	1664.2
37.5°	1326.4
40°	996.0
42.5°	690.3
45°	419.9
47.5°	226.3
50°	124.8
52.5°	74.1
55°	48.1
57.5°	30.7
60°	18.0
62.5°	8.0
65°	2.0
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

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





— 0°-180°







(END OF REPORT)