

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: P781887

Luminaire Tested: LER4D50D010-EC4DR6540509030-4LBS1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P781887
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-147)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D50D010-EC4DR6540509030-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4241.6 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.96
Luminous Opening: Circular (Dia: 0.48' 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

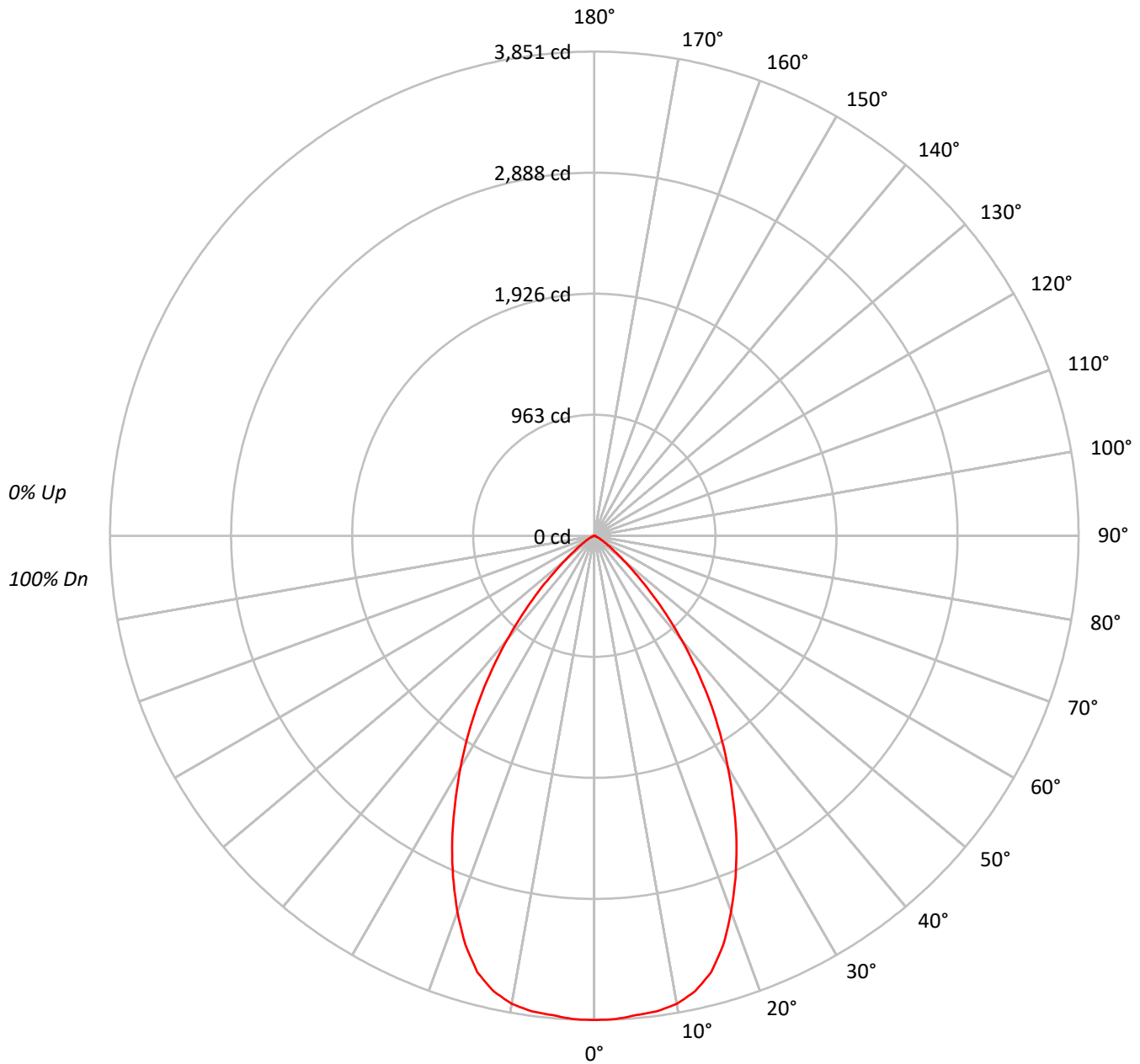


Downlight

TEST NUMBER: P781887

CATALOG NUMBER: LER4D50D010-EC4DR6540509030-4LBS1MW

Luminous Intensity Polar Plot





TEST NUMBER: P781887

CATALOG NUMBER: LER4D50D010-EC4DR6540509030-4LBS1MW

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	113	110	107	105		111	108	105	103		104	102	100		100	99	97		97	95	94
2	107	102	97	94		105	100	96	92		97	93	90		94	91	88		91	89	87
3	101	94	88	84		99	92	87	83		90	86	82		87	84	81		85	82	80
4	95	87	81	76		93	86	80	76		84	79	75		82	77	74		80	76	73
5	90	81	74	70		88	80	74	69		78	73	69		76	72	68		75	71	68
6	85	75	69	64		83	74	68	64		73	67	63		71	67	63		70	66	62
7	80	70	64	59		79	69	63	59		68	63	59		67	62	58		66	61	58
8	76	66	59	55		75	65	59	55		64	58	54		63	58	54		62	57	54
9	72	61	55	51		71	61	55	51		60	54	51		59	54	50		58	54	50
10	68	58	52	47		67	57	51	47		57	51	47		56	51	47		55	50	47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	224925
5°	224360
10°	224166
15°	217260
20°	197787
25°	172355
30°	143355
35°	113585
40°	81982
45°	51796
50°	26995
55°	14347
60°	7534
65°	4146
70°	1742
75°	1918
80°	1345
85°	1139

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 51796 cd/sqm



TEST NUMBER: P781887

CATALOG NUMBER: LER4D50D010-EC4DR6540509030-4LBS1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	364.2	8.6
10°-20°	997.3	23.5
20°-30°	1219.1	28.7
30°-40°	989.1	23.3
40°-50°	492.9	11.6
50°-60°	137.5	3.2
60°-70°	31.2	0.7
70°-80°	8.1	0.2
80°-90°	2.1	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°	2580.6	60.8
0°-40°	3569.7	84.2
0°-60°	4200.1	99.0
0°-90°	4241.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4241.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3851	
5°	3827	364
15°	3593	997
25°	2675	1219
35°	1593	989
45°	627	493
55°	141	137
65°	30	31
75°	8	8
85°	2	2
90°	0	



TEST NUMBER: P781887

CATALOG NUMBER: LER4D50D010-EC4DR6540509030-4LBS1MW

CANDELA DISTRIBUTION (FULL):

	0°
0°	3851.2
2.5°	3848.4
5°	3826.9
7.5°	3814.5
10°	3779.9
12.5°	3709.8
15°	3593.2
17.5°	3410.9
20°	3182.3
22.5°	2935.5
25°	2674.6
27.5°	2395.6
30°	2125.7
32.5°	1859.1
35°	1593.1
37.5°	1327.7
40°	1075.3
42.5°	838.7
45°	627.1
47.5°	436.9
50°	297.1
52.5°	204.9
55°	140.9
57.5°	95.1
60°	64.5
62.5°	44.7
65°	30.0
67.5°	15.3
70°	10.2
72.5°	9.6
75°	8.5
77.5°	5.7
80°	4.0
82.5°	2.8
85°	1.7
87.5°	1.1
90°	0.0



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180°







(END OF REPORT)