

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: P781850

Luminaire Tested: LER4D50D010-EC4DR5540509050-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781850
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-EC4DR5540509050-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 55° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5826.9 lumens
Efficiency: N/A
Efficacy: 124.0 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

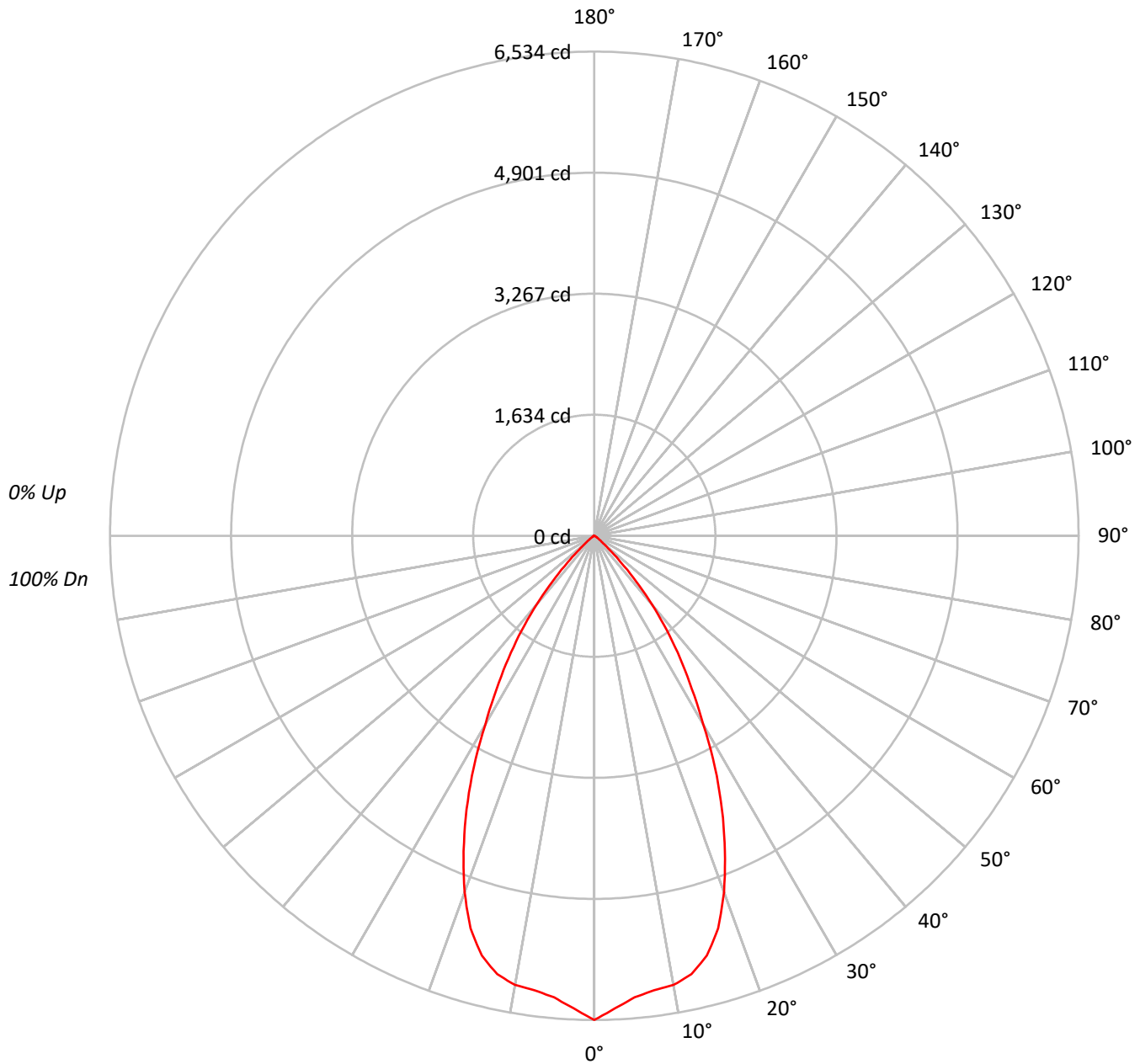


Downlight

TEST NUMBER: P781850

CATALOG NUMBER: LER4D50D010-EC4DR5540509050-4LBS1LI

Luminous Intensity Polar Plot





TEST NUMBER: P781850

CATALOG NUMBER: LER4D50D010-EC4DR5540509050-4LBS1LI

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	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°	713910
5°	685554
10°	682974
15°	663352
20°	594794
25°	491567
30°	371312
35°	269233
40°	172297
45°	78696
50°	25735
55°	11106
60°	4786
65°	620
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 78696 cd/sqm



TEST NUMBER: P781850

CATALOG NUMBER: LER4D50D010-EC4DR5540509050-4LBS1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	594.8	10.2
10°-20°	1623.3	27.9
20°-30°	1849.9	31.7
30°-40°	1259.3	21.6
40°-50°	434.0	7.4
50°-60°	60.0	1.0
60°-70°	5.8	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°	4067.9	69.8
0°-40°	5327.2	91.4
0°-60°	5821.1	99.9
0°-90°	5826.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5826.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6534	
5°	6251	595
15°	5864	1623
25°	4078	1850
35°	2018	1259
45°	509	434
55°	58	60
65°	2	6
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P781850

CATALOG NUMBER: LER4D50D010-EC4DR5540509050-4LBS1LI

CANDELA DISTRIBUTION (FULL):

	0°
0°	6534.0
2.5°	6384.2
5°	6250.6
7.5°	6185.0
10°	6155.9
12.5°	6058.7
15°	5864.4
17.5°	5555.9
20°	5115.5
22.5°	4607.0
25°	4077.5
27.5°	3526.1
30°	2943.1
32.5°	2449.2
35°	2018.5
37.5°	1608.8
40°	1208.0
42.5°	837.2
45°	509.3
47.5°	274.5
50°	151.4
52.5°	89.9
55°	58.3
57.5°	37.2
60°	21.9
62.5°	9.7
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)