

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: P781750

Luminaire Tested: LER4D50D010-EC4DR3540509040-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781750
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-20)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D50D010-EC4DR3540509040-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 35° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5404.2 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Spacing Criteria (0/90/45): 0.6 / 0.6 / 0.54
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

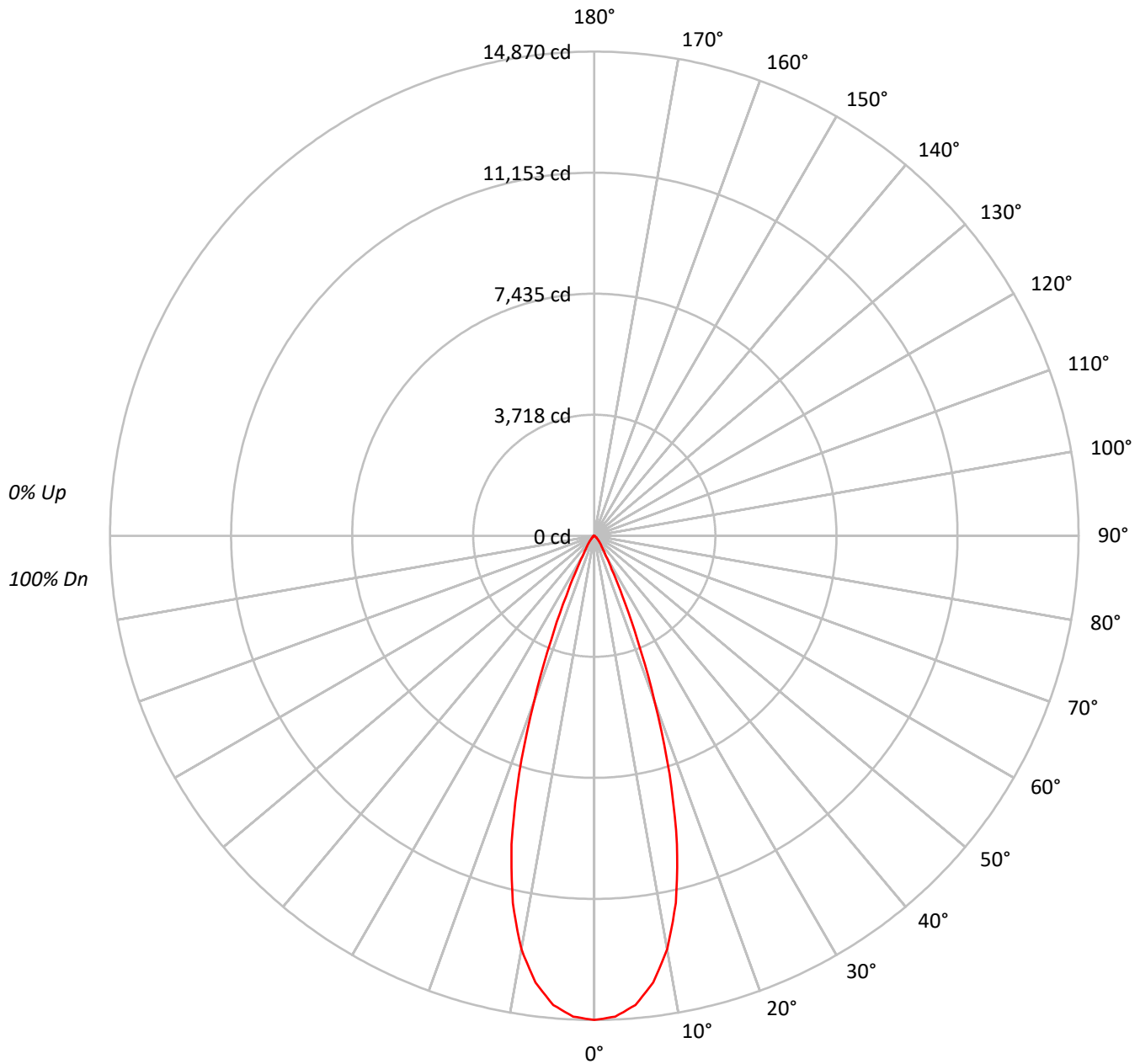


Downlight

TEST NUMBER: P781750

CATALOG NUMBER: LER4D50D010-EC4DR3540509040-4LBS1LI

Luminous Intensity Polar Plot





TEST NUMBER: P781750

CATALOG NUMBER: LER4D50D010-EC4DR3540509040-4LBS1LI

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
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	115	112	110	108	112	110	108	107		106	105	103		103	101	100		99	98	98
2	110	106	103	101	108	105	102	99		102	99	97		99	97	95		96	95	93
3	106	101	97	94	105	100	96	93		97	95	92		95	93	91		93	91	89
4	103	97	92	89	101	96	92	89		94	90	88		92	89	87		90	88	86
5	99	93	88	85	98	92	87	84		90	86	84		89	85	83		87	84	82
6	96	89	84	81	94	88	84	81		87	83	80		85	82	80		84	81	79
7	93	85	81	78	91	85	80	77		84	80	77		83	79	77		82	79	76
8	90	82	78	74	88	82	77	74		81	77	74		80	76	74		79	76	73
9	87	79	75	72	86	79	75	72		78	74	71		77	74	71		77	73	71
10	84	77	72	69	83	76	72	69		76	72	69		75	71	69		74	71	69

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1624675
5°	1586505
10°	1429853
15°	1109794
20°	629466
25°	244885
30°	91355
35°	50085
40°	32734
45°	19917
50°	12680
55°	8953
60°	6556
65°	3568
70°	256
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 19917 cd/sqm



TEST NUMBER: P781750

CATALOG NUMBER: LER4D50D010-EC4DR3540509040-4LBS1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1330.4	24.6
10°-20°	2597.4	48.1
20°-30°	1059.3	19.6
30°-40°	253.5	4.7
40°-50°	105.6	2.0
50°-60°	43.7	0.8
60°-70°	13.7	0.3
70°-80°	0.3	0.0
80°-90°	0.2	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°	4987.1	92.3
0°-40°	5240.6	97.0
0°-60°	5390.0	99.7
0°-90°	5404.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5404.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	14870	
5°	14465	###
15°	9811	2597
25°	2031	1059
35°	376	254
45°	129	106
55°	47	44
65°	14	14
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P781750

CATALOG NUMBER: LER4D50D010-EC4DR3540509040-4LBS1LI

CANDELA DISTRIBUTION (FULL):

	0°
0°	14869.7
2.5°	14780.5
5°	14465.1
7.5°	13835.8
10°	12887.8
12.5°	11553.1
15°	9811.2
17.5°	7681.0
20°	5413.7
22.5°	3452.1
25°	2031.3
27.5°	1148.3
30°	724.1
32.5°	508.4
35°	375.5
37.5°	290.3
40°	229.5
42.5°	176.8
45°	128.9
47.5°	96.5
50°	74.6
52.5°	59.2
55°	47.0
57.5°	38.1
60°	30.0
62.5°	21.9
65°	13.8
67.5°	4.9
70°	0.8
72.5°	0.8
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.8
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)