

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: P781746

Luminaire Tested: LER4D50D010-EC4DR3540509035-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781746
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-EC4DR3540509035-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 35° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5162.9 lumens
Efficiency: N/A
Efficacy: 109.8 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

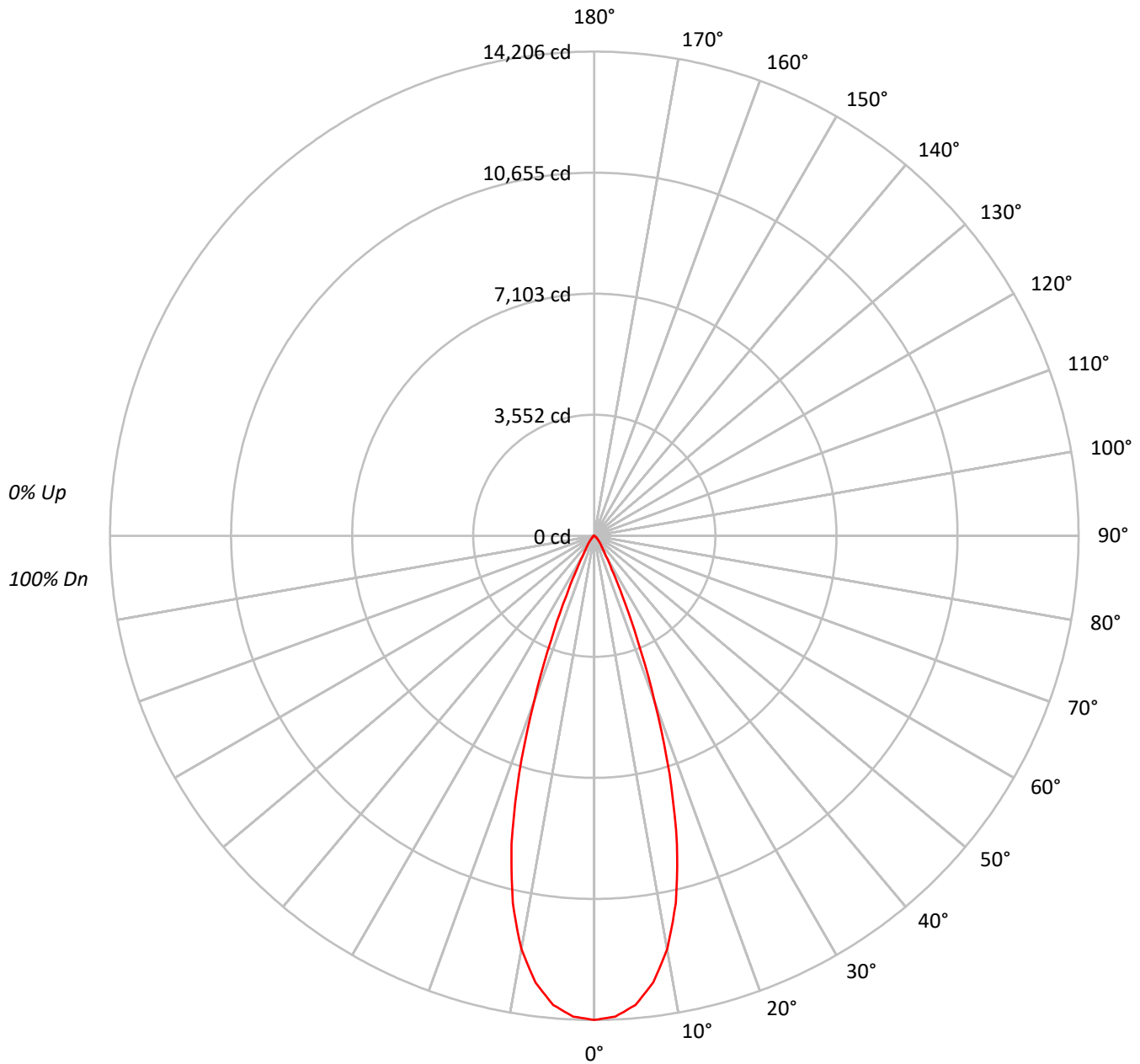


Downlight

TEST NUMBER: P781746

CATALOG NUMBER: LER4D50D010-EC4DR3540509035-4LBS1LI

Luminous Intensity Polar Plot





TEST NUMBER: P781746

CATALOG NUMBER: LER4D50D010-EC4DR3540509035-4LBS1LI

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	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°	1552115
5°	1515642
10°	1365993
15°	1060227
20°	601352
25°	233951
30°	87280
35°	47844
40°	31264
45°	19037
50°	12120
55°	8553
60°	6272
65°	3413
70°	256
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 19037 cd/sqm

TEST NUMBER: P781746

CATALOG NUMBER: LER4D50D010-EC4DR3540509035-4LBS1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1270.9	24.6
10°-20°	2481.4	48.1
20°-30°	1012.0	19.6
30°-40°	242.2	4.7
40°-50°	100.9	2.0
50°-60°	41.8	0.8
60°-70°	13.1	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°	4764.4	92.3
0°-40°	5006.6	97.0
0°-60°	5149.3	99.7
0°-90°	5162.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5162.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	14206	
5°	13819	###
15°	9373	2481
25°	1941	1012
35°	359	242
45°	123	101
55°	45	42
65°	13	13
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P781746

CATALOG NUMBER: LER4D50D010-EC4DR3540509035-4LBS1LI

CANDELA DISTRIBUTION (FULL):

	0°
0°	14205.6
2.5°	14120.4
5°	13819.0
7.5°	13217.8
10°	12312.2
12.5°	11037.1
15°	9373.0
17.5°	7337.9
20°	5171.9
22.5°	3297.9
25°	1940.6
27.5°	1097.0
30°	691.8
32.5°	485.7
35°	358.7
37.5°	277.3
40°	219.2
42.5°	168.9
45°	123.2
47.5°	92.2
50°	71.3
52.5°	56.6
55°	44.9
57.5°	36.4
60°	28.7
62.5°	20.9
65°	13.2
67.5°	4.6
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





— 0°-180°







(END OF REPORT)