

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: P777962

Luminaire Tested: LERS4D10D010-EC4DR200210IC9050-4LBS1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P777962
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LERS4D10D010-EC4DR200210IC9050-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 20° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1254.8 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Spacing Criteria (0/90/45): 0.34 / 0.34 / 0.36
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
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



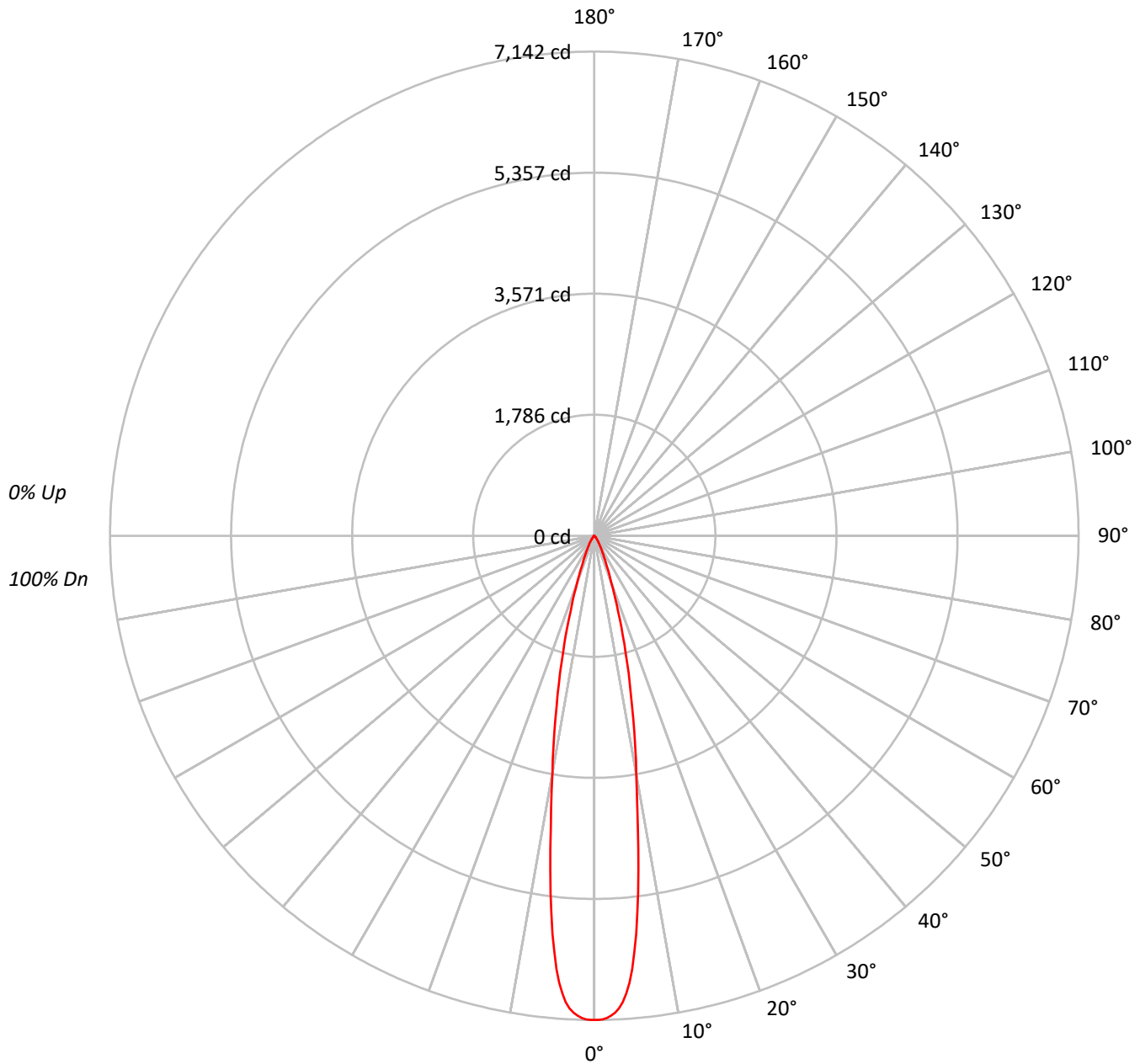
Downlight



TEST NUMBER: P777962

CATALOG NUMBER: LERS4D10D010-EC4DR200210IC9050-4LBS1LI

Luminous Intensity Polar Plot



TEST NUMBER: P777962

CATALOG NUMBER: LERS4D10D010-EC4DR200210IC9050-4LBS1LI

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	115	113	111	109	113	111	109	108	107	106	104		103	102	101		100
2	111	108	105	102	109	106	104	101	103	101	99		100	99	97		98
3	108	103	100	97	106	102	99	96	100	97	95		97	95	93		95
4	105	99	96	93	103	98	95	92	96	93	91		95	92	90		93
5	102	96	92	89	100	95	91	89	94	90	88		92	89	87		91
6	99	93	89	86	98	92	88	86	91	87	85		90	87	84		88
7	96	90	86	83	95	89	86	83	88	85	82		87	84	82		86
8	94	87	83	81	93	87	83	80	86	83	80		85	82	80		84
9	91	85	81	78	91	85	81	78	84	80	78		83	80	78		82
10	89	83	79	76	88	82	79	76	82	78	76		81	78	76		81

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	780362
5°	704035
10°	395146
15°	200858
20°	85042
25°	39253
30°	20779
35°	11204
40°	5990
45°	3538
50°	2057
55°	1086
60°	699
65°	491
70°	192
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3538 cd/sqm



TEST NUMBER: P777962

CATALOG NUMBER: LERS4D10D010-EC4DR200210IC9050-4LBS1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	508.5	40.5
10°-20°	500.7	39.9
20°-30°	163.6	13.0
30°-40°	55.7	4.4
40°-50°	18.7	1.5
50°-60°	5.6	0.4
60°-70°	1.9	0.1
70°-80°	0.1	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°	1172.8	93.5
0°-40°	1228.5	97.9
0°-60°	1252.9	99.8
0°-90°	1254.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1254.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7142	
5°	6419	509
15°	1776	501
25°	326	164
35°	84	56
45°	23	19
55°	6	6
65°	2	2
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P777962

CATALOG NUMBER: LERS4D10D010-EC4DR200210IC9050-4LBS1LI

CANDELA DISTRIBUTION (FULL):

	0°
0°	7142.2
0.5°	7142.2
1°	7133.3
1.5°	7115.5
2°	7083.0
2.5°	7039.8
3°	6978.7
3.5°	6893.5
4°	6767.0
4.5°	6613.0
5°	6419.1
5.5°	6164.0
6°	5902.6
6.5°	5603.1
7°	5309.9
7.5°	4966.5
8°	4659.9
8.5°	4351.5
9°	4066.5
9.5°	3805.1
10°	3561.6
12.5°	2557.3
15°	1775.7
17.5°	1160.0
20°	731.4
22.5°	473.8
25°	325.6
27.5°	229.0
30°	164.7
32.5°	118.3
35°	84.0
37.5°	58.5
40°	42.0
42.5°	30.5
45°	22.9
47.5°	17.8
50°	12.1
52.5°	7.6
55°	5.7
57.5°	4.5
60°	3.2
62.5°	2.5
65°	1.9



TEST NUMBER: P777962

CATALOG NUMBER: LERS4D10D010-EC4DR200210IC9050-4LBS1LI

CANDELA DISTRIBUTION (continued):

	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°







67.5°	1.3
70°	0.6



(END OF REPORT)