

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: P778116

Luminaire Tested: LERS4D10D010-EC4DR550210IC9030-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P778116
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: LERS4D10D010-EC4DR550210IC9030-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 55° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1009.6 lumens
Efficiency: N/A
Efficacy: 86.3 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): 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



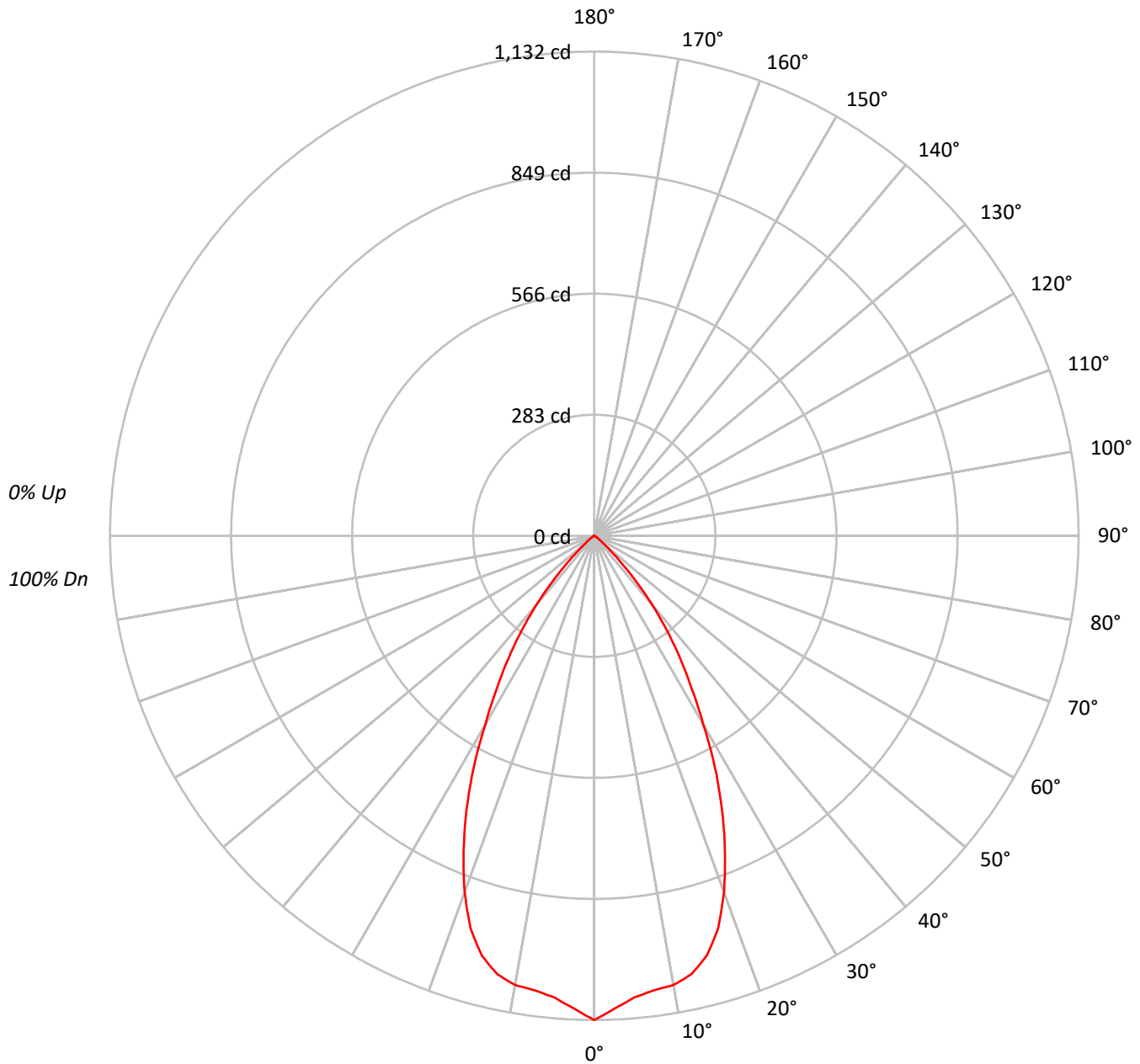
Downlight



TEST NUMBER: P778116

CATALOG NUMBER: LERS4D10D010-EC4DR550210IC9030-4LBS1B

Luminous Intensity Polar Plot



TEST NUMBER: P778116

CATALOG NUMBER: LERS4D10D010-EC4DR550210IC9030-4LBS1B

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	114	111	108	106	111	109	106	104	105	103	101		101	99	98		97
2	108	103	99	96	106	101	98	95	98	95	92		95	93	90		92
3	102	96	91	87	100	95	90	86	92	88	85		90	86	84		87
4	97	90	84	80	95	88	83	79	86	82	78		84	81	78		82
5	92	84	78	74	91	83	77	73	81	76	73		79	75	72		78
6	88	79	73	68	86	78	72	68	76	71	68		75	70	67		74
7	83	74	68	64	82	73	67	63	72	67	63		71	66	63		70
8	79	69	63	59	78	69	63	59	68	63	59		67	62	59		66
9	75	66	60	56	74	65	59	55	64	59	55		63	58	55		62
10	72	62	56	52	71	61	56	52	61	56	52		60	55	52		59

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	123694
5°	118781
10°	118324
15°	114936
20°	103053
25°	85161
30°	64331
35°	46644
40°	29852
45°	13628
50°	4453
55°	1924
60°	830
65°	103
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 13628 cd/sqm



TEST NUMBER: P778116

CATALOG NUMBER: LERS4D10D010-EC4DR550210IC9030-4LBS1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.0	10.2
10°-20°	281.2	27.9
20°-30°	320.5	31.7
30°-40°	218.2	21.6
40°-50°	75.2	7.4
50°-60°	10.4	1.0
60°-70°	1.0	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°	704.8	69.8
0°-40°	923.0	91.4
0°-60°	1008.6	99.9
0°-90°	1009.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1009.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1132	
5°	1083	103
15°	1016	281
25°	706	320
35°	350	218
45°	88	75
55°	10	10
65°	0	1
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P778116

CATALOG NUMBER: LERS4D10D010-EC4DR550210IC9030-4LBS1B

CANDELA DISTRIBUTION (FULL):

	0°
0°	1132.1
2.5°	1106.1
5°	1083.0
7.5°	1071.6
10°	1066.5
12.5°	1049.8
15°	1016.1
17.5°	962.6
20°	886.3
22.5°	798.2
25°	706.4
27.5°	610.9
30°	509.9
32.5°	424.4
35°	349.7
37.5°	278.7
40°	209.3
42.5°	145.1
45°	88.2
47.5°	47.6
50°	26.2
52.5°	15.6
55°	10.1
57.5°	6.5
60°	3.8
62.5°	1.7
65°	0.4
67.5°	0.1
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)