

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: P778314

Luminaire Tested: LERS4D15D010-EC4DR300215IC9035-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P778314
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LERS4D15D010-EC4DR300215IC9035-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1530.1 lumens
Efficiency: N/A
Efficacy: 96.8 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 15.8
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



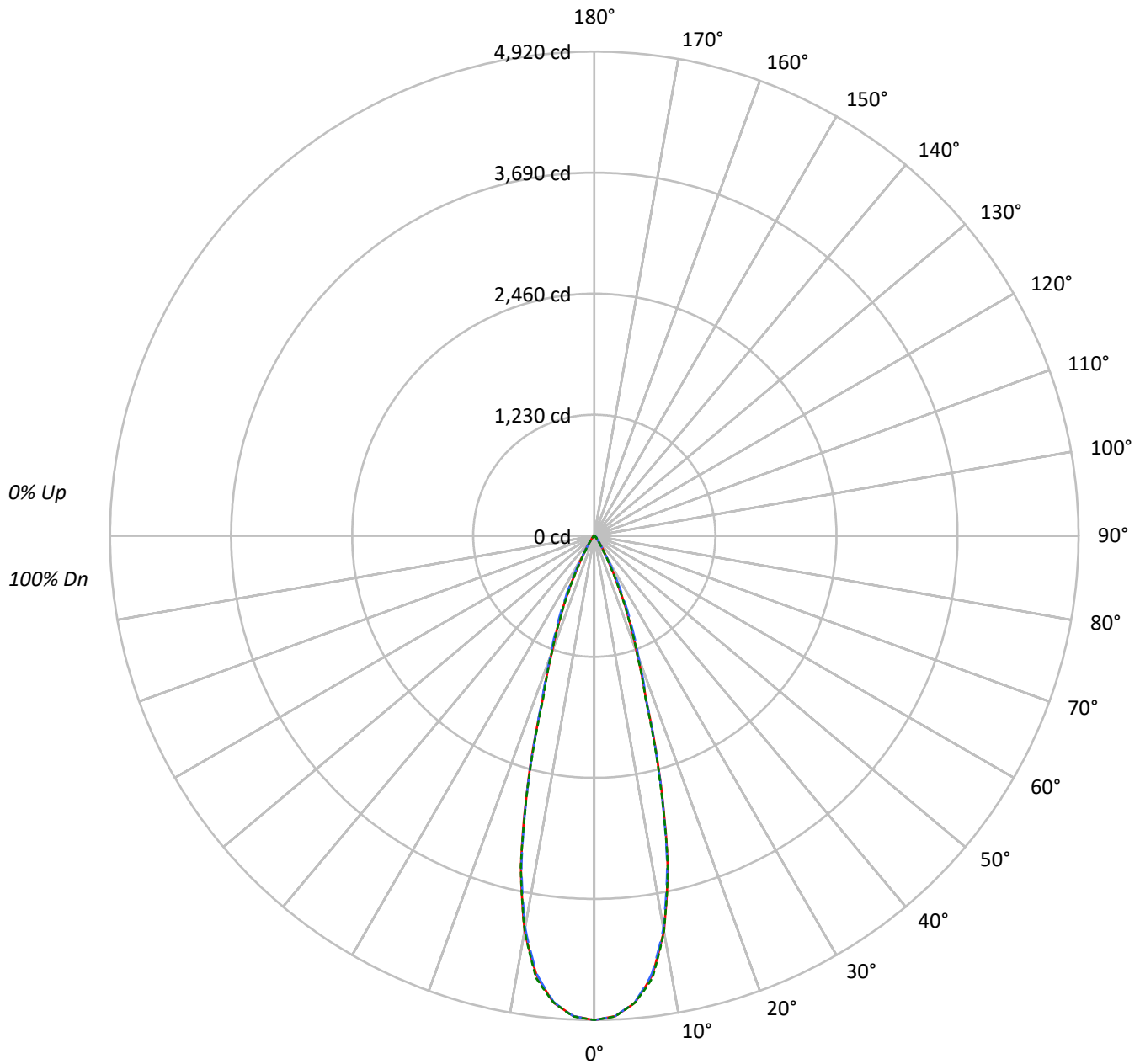
Downlight



TEST NUMBER: P778314

CATALOG NUMBER: LERS4D15D010-EC4DR300215IC9035-4LBS1LI

Luminous Intensity Polar Plot



TEST NUMBER: P778314

CATALOG NUMBER: LERS4D15D010-EC4DR300215IC9035-4LBS1LI

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	112	110	109	107	106	105	104		103	102	101		99
2	111	107	104	101	109	105	102	100	102	100	98		99	97	96		97
3	107	102	98	95	105	101	97	94	98	95	93		96	93	91		94
4	103	98	93	90	102	96	93	90	94	91	89		93	90	88		91
5	100	94	89	86	98	93	89	86	91	88	85		90	86	84		88
6	97	90	85	82	95	89	85	82	88	84	81		87	83	81		85
7	94	87	82	79	92	86	82	79	85	81	78		84	81	78		83
8	91	84	79	76	90	83	79	76	82	78	76		81	78	75		80
9	88	81	76	73	87	80	76	73	80	76	73		79	75	73		78
10	85	78	74	71	85	78	74	71	77	73	71		76	73	71		76

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	376586	376586	376586
5°	365777	365354	365800
10°	316819	314581	316742
15°	206707	205597	204567
20°	102789	106642	102651
25°	51780	58385	50716
30°	20735	22582	18066
35°	9615	9204	7718
40°	4147	4606	3907
45°	2923	3637	2955
50°	1012	2644	1060
55°	587	1094	614
60°	398	490	398
65°	254	254	254
70°	157	112	157
75°	0	59	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 3637 cd/sqm



TEST NUMBER: P778314

CATALOG NUMBER: LERS4D15D010-EC4DR300215IC9035-4LBS1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	432.6	28.3
10°-20°	696.8	45.5
20°-30°	301.1	19.7
30°-40°	68.6	4.5
40°-50°	23.6	1.5
50°-60°	5.8	0.4
60°-70°	1.5	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°	1430.5	93.5
0°-40°	1499.1	98.0
0°-60°	1528.4	99.9
0°-90°	1530.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1530.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4920	4920	4920	4920	4920	
5°	4760	4756	4755	4765	4761	433
15°	2608	2577	2594	2586	2582	698
25°	613	636	691	620	600	293
35°	103	105	98	98	83	70
45°	27	34	34	34	27	19
55°	4	5	8	5	5	4
65°	1	1	1	1	1	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P778314

CATALOG NUMBER: LERS4D15D010-EC4DR300215IC9035-4LBS1LI

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4919.9	4919.9	4919.9	4919.9	4919.9
2.5°	4887.3	4883.9	4885.9	4888.3	4889.3
5°	4760.5	4756.0	4755.0	4764.9	4760.8
7.5°	4504.7	4498.2	4488.3	4510.8	4531.8
10°	4076.2	4069.0	4047.4	4058.1	4075.2
12.5°	3443.5	3420.2	3419.7	3453.5	3448.9
15°	2608.5	2577.1	2594.5	2586.1	2581.5
17.5°	1754.1	1742.1	1765.3	1758.3	1728.1
20°	1261.9	1265.0	1309.2	1287.0	1260.2
22.5°	920.8	932.1	984.6	927.3	906.3
25°	613.1	636.3	691.3	620.0	600.5
27.5°	377.1	387.7	443.5	372.2	361.6
30°	234.6	229.2	255.5	219.3	204.4
32.5°	153.9	147.1	155.6	139.6	127.5
35°	102.9	105.1	98.5	97.8	82.6
37.5°	64.2	73.9	65.2	69.6	53.2
40°	41.5	53.6	46.1	51.0	39.1
42.5°	34.0	41.3	37.9	40.3	34.8
45°	27.0	33.6	33.6	33.6	27.3
47.5°	15.0	22.5	28.8	23.0	15.9
50°	8.5	11.3	22.2	11.9	8.9
52.5°	5.8	6.5	15.2	6.8	6.0
55°	4.4	4.6	8.2	4.8	4.6
57.5°	3.4	3.6	4.4	3.6	3.4
60°	2.6	2.6	3.2	2.9	2.6
62.5°	1.9	1.9	2.2	1.9	1.9
65°	1.4	1.4	1.4	1.4	1.4
67.5°	0.7	1.0	1.0	1.0	1.0
70°	0.7	0.5	0.5	0.5	0.7
72.5°	0.5	0.2	0.2	0.2	0.2
75°	0.0	0.0	0.2	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)