

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: P778270

Luminaire Tested: LERS4D15D010-EC4DR2015309040-4LBS1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P778270
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: LERS4D15D010-EC4DR2015309040-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 20° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1706.3 lumens
Efficiency: N/A
Efficacy: 108.0 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): 15.8
Input Voltage (V): NR
Input Current (A_{in}): 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

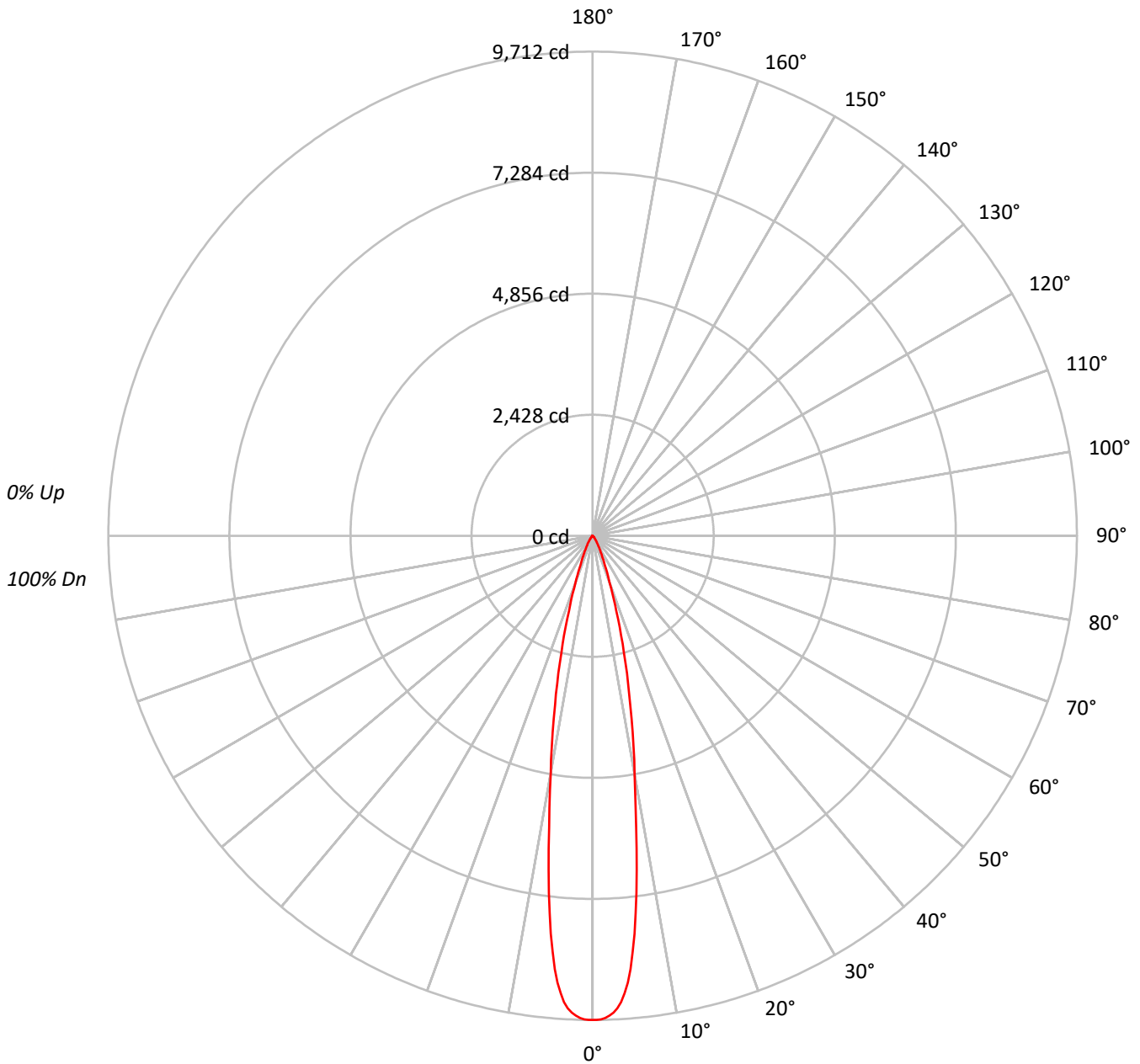


Downlight



TEST NUMBER: P778270
CATALOG NUMBER: LERS4D15D010-EC4DR2015309040-4LBS1LI

Luminous Intensity Polar Plot





TEST NUMBER: P778270

CATALOG NUMBER: LERS4D15D010-EC4DR2015309040-4LBS1LI

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0													
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						100													
1	115	113	111	109	113	111	109	108	107	106	104	103	102	101	100	99	98	100	99	98	97	98	96	95	94												
2	111	108	105	102	109	106	104	101	103	101	99	100	99	97	98	96	95	98	96	95	94	93	92	91	94												
3	108	103	100	97	106	102	99	96	100	97	95	97	95	93	95	93	92	98	96	95	94	93	92	91	94												
4	105	99	96	93	103	98	95	92	96	93	91	95	92	90	93	91	89	93	91	89	88	87	86	85	88												
5	102	96	92	89	100	95	91	89	94	90	88	92	89	87	91	88	86	91	88	86	85	84	83	82	85												
6	99	93	89	86	98	92	88	86	91	87	85	90	87	84	88	86	84	88	86	84	83	82	81	80	83												
7	96	90	86	83	95	89	86	83	88	85	82	87	84	82	86	84	82	86	84	82	81	80	79	78	81												
8	94	87	83	81	93	87	83	80	86	83	80	85	82	80	84	82	80	84	82	80	79	78	77	76	79												
9	91	85	81	78	91	85	81	78	84	80	78	83	80	78	82	80	78	82	80	78	77	76	75	74	77												
10	89	83	79	76	88	82	79	76	82	78	76	81	78	76	81	78	76	81	78	76	75	74	73	72	75												

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1061097
5°	957314
10°	537291
15°	273116
20°	115633
25°	53382
30°	28261
35°	15232
40°	8144
45°	4806
50°	2788
55°	1486
60°	940
65°	672
70°	288
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4806 cd/sqm



TEST NUMBER: P778270

CATALOG NUMBER: LERS4D15D010-EC4DR2015309040-4LBS1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	691.5	40.5
10°-20°	680.9	39.9
20°-30°	222.4	13.0
30°-40°	75.8	4.4
40°-50°	25.5	1.5
50°-60°	7.7	0.5
60°-70°	2.6	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°	1594.7	93.5
0°-40°	1670.5	97.9
0°-60°	1703.6	99.8
0°-90°	1706.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1706.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9712	
5°	8728	691
15°	2414	681
25°	443	222
35°	114	76
45°	31	25
55°	8	8
65°	3	3
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P778270

CATALOG NUMBER: LERS4D15D010-EC4DR2015309040-4LBS1LI

CANDELA DISTRIBUTION (FULL):

	0°
0°	9711.6
0.5°	9711.6
1°	9699.5
1.5°	9675.3
2°	9631.2
2.5°	9572.4
3°	9489.4
3.5°	9373.5
4°	9201.4
4.5°	8992.1
5°	8728.4
5.5°	8381.6
6°	8026.1
6.5°	7618.8
7°	7220.2
7.5°	6753.2
8°	6336.3
8.5°	5916.9
9°	5529.5
9.5°	5174.1
10°	4842.8
12.5°	3477.3
15°	2414.5
17.5°	1577.4
20°	994.5
22.5°	644.3
25°	442.8
27.5°	311.3
30°	224.0
32.5°	160.9
35°	114.2
37.5°	79.6
40°	57.1
42.5°	41.5
45°	31.1
47.5°	24.2
50°	16.4
52.5°	10.4
55°	7.8
57.5°	6.1
60°	4.3
62.5°	3.5
65°	2.6



TEST NUMBER: P778270
CATALOG NUMBER: LERS4D15D010-EC4DR2015309040-4LBS1LI

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

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



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°

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



67.5°		1.7
70°		0.9

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)