

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: P778259

Luminaire Tested: LERS4D15D010-EC4DR2015309027-4LBS1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P778259
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-EC4DR2015309027-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 20° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1378.2 lumens
Efficiency: N/A
Efficacy: 87.2 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): 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



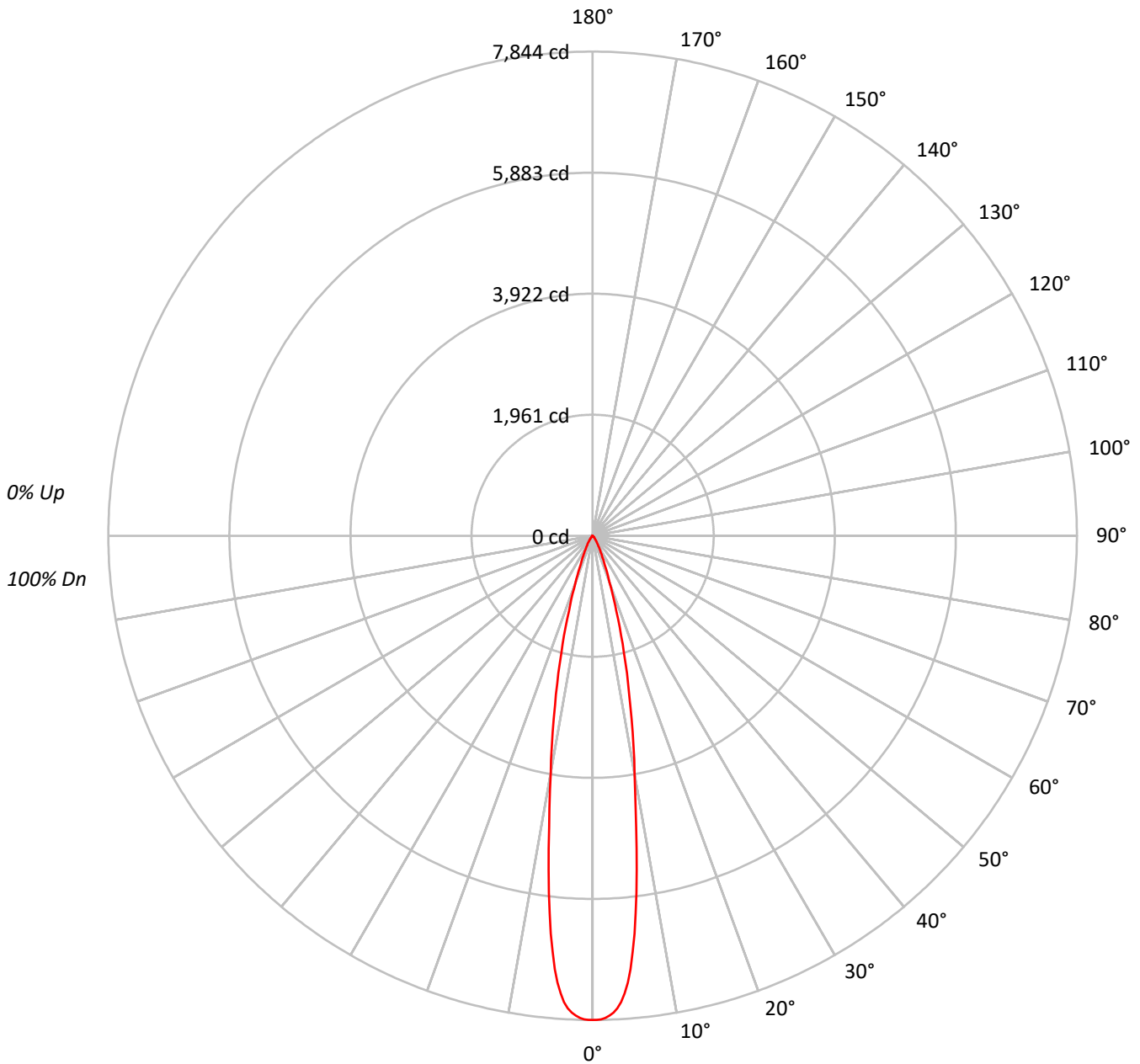
Downlight



TEST NUMBER: P778259

CATALOG NUMBER: LERS4D15D010-EC4DR2015309027-4LBS1MW

Luminous Intensity Polar Plot





TEST NUMBER: P778259

CATALOG NUMBER: LERS4D15D010-EC4DR2015309027-4LBS1MW

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	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	97	97	98	98	97															
2	111	108	105	102	109	106	104	101	103	101	99	100	99	97	98	96	95	94	94	98	96	95															
3	108	103	100	97	106	102	99	96	100	97	95	97	95	93	95	93	92	91	91	95	93	92															
4	105	99	96	93	103	98	95	92	96	93	91	95	92	90	93	91	89	88	88	93	91	89															
5	102	96	92	89	100	95	91	89	94	90	88	92	89	87	91	88	86	85	85	91	88	86															
6	99	93	89	86	98	92	88	86	91	87	85	90	87	84	88	86	84	83	83	88	86	84															
7	96	90	86	83	95	89	86	83	88	85	82	87	84	82	86	84	82	81	81	86	84	82															
8	94	87	83	81	93	87	83	80	86	83	80	85	82	80	84	82	80	79	79	84	82	80															
9	91	85	81	78	91	85	81	78	84	80	78	83	80	78	82	80	78	77	77	82	80	78															
10	89	83	79	76	88	82	79	76	82	78	76	81	78	76	81	78	76	75	75	81	78	76															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	857041
5°	773209
10°	433966
15°	220597
20°	93402
25°	43111
30°	22823
35°	12298
40°	6575
45°	3878
50°	2261
55°	1200
60°	765
65°	543
70°	224
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3878 cd/sqm



TEST NUMBER: P778259

CATALOG NUMBER: LERS4D15D010-EC4DR2015309027-4LBS1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	558.5	40.5
10°-20°	549.9	39.9
20°-30°	179.7	13.0
30°-40°	61.2	4.4
40°-50°	20.6	1.5
50°-60°	6.2	0.5
60°-70°	2.1	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°	1288.1	93.5
0°-40°	1349.2	97.9
0°-60°	1376.0	99.8
0°-90°	1378.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1378.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7844	
5°	7050	558
15°	1950	550
25°	358	180
35°	92	61
45°	25	21
55°	6	6
65°	2	2
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P778259

CATALOG NUMBER: LERS4D15D010-EC4DR2015309027-4LBS1MW

CANDELA DISTRIBUTION (FULL):

	0°
0°	7844.0
0.5°	7844.0
1°	7834.2
1.5°	7814.6
2°	7779.0
2.5°	7731.5
3°	7664.5
3.5°	7570.9
4°	7431.9
4.5°	7262.8
5°	7049.8
5.5°	6769.7
6°	6482.6
6.5°	6153.6
7°	5831.6
7.5°	5454.5
8°	5117.8
8.5°	4779.0
9°	4466.1
9.5°	4179.0
10°	3911.5
12.5°	2808.6
15°	1950.2
17.5°	1274.0
20°	803.3
22.5°	520.4
25°	357.6
27.5°	251.5
30°	180.9
32.5°	129.9
35°	92.2
37.5°	64.3
40°	46.1
42.5°	33.5
45°	25.1
47.5°	19.6
50°	13.3
52.5°	8.4
55°	6.3
57.5°	4.9
60°	3.5
62.5°	2.8
65°	2.1



TEST NUMBER: P778259

CATALOG NUMBER: LERS4D15D010-EC4DR2015309027-4LBS1MW

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





67.5°		1.4
70°		0.7

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

Scaled Data Report



(END OF REPORT)