

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: P778305

Luminaire Tested: LERS4D15D010-EC4DR300215IC9027-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P778305
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-EC4DR300215IC9027-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1336.8 lumens
Efficiency: N/A
Efficacy: 84.6 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



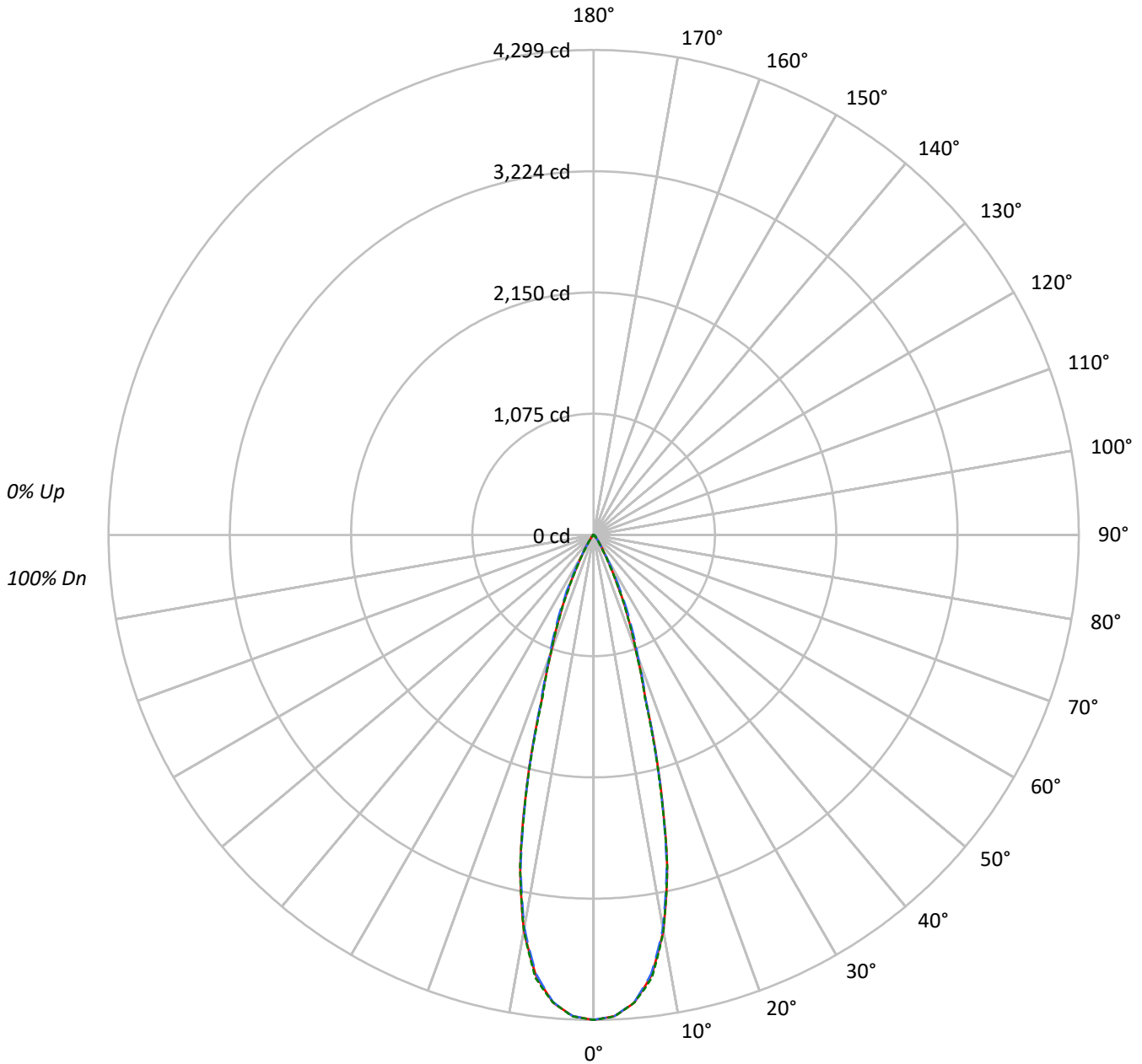
Downlight



TEST NUMBER: P778305

CATALOG NUMBER: LERS4D15D010-EC4DR300215IC9027-4LBS1H

Luminous Intensity Polar Plot





TEST NUMBER: P778305

CATALOG NUMBER: LERS4D15D010-EC4DR300215IC9027-4LBS1H

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	112	110	109	107	106	105	104	103	102	101	99	99	98	96						96													
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92						92													
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89						89													
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85						85													
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82						82													
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79						79													
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77						77													
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74						74													
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72						72													
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69						69													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	329029	329029	329029
5°	319583	319214	319598
10°	276807	274856	276737
15°	180604	179629	178734
20°	89805	93177	89683
25°	45243	51012	44314
30°	18110	19736	15777
35°	8400	8045	6747
40°	3627	4027	3417
45°	2565	3172	2576
50°	881	2310	929
55°	507	961	534
60°	352	429	352
65°	235	235	235
70°	134	90	134
75°	0	59	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 3172 cd/sqm



TEST NUMBER: P778305

CATALOG NUMBER: LERS4D15D010-EC4DR300215IC9027-4LBS1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	378.0	28.3
10°-20°	608.8	45.5
20°-30°	263.1	19.7
30°-40°	60.0	4.5
40°-50°	20.6	1.5
50°-60°	5.0	0.4
60°-70°	1.3	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°	1249.8	93.5
0°-40°	1309.8	98.0
0°-60°	1335.4	99.9
0°-90°	1336.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1336.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4299	4299	4299	4299	4299	
5°	4159	4155	4154	4163	4160	378
15°	2279	2252	2267	2260	2256	610
25°	536	556	604	542	525	256
35°	90	92	86	86	72	61
45°	24	29	29	29	24	17
55°	4	4	7	4	4	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	0



TEST NUMBER: P778305

CATALOG NUMBER: LERS4D15D010-EC4DR300215IC9027-4LBS1H

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4298.6	4298.6	4298.6	4298.6	4298.6
2.5°	4270.1	4267.2	4268.8	4270.9	4271.8
5°	4159.3	4155.3	4154.5	4163.1	4159.5
7.5°	3935.8	3930.1	3921.4	3941.1	3959.4
10°	3561.4	3555.1	3536.3	3545.6	3560.5
12.5°	3008.7	2988.2	2987.8	3017.3	3013.3
15°	2279.1	2251.6	2266.8	2259.5	2255.5
17.5°	1532.6	1522.0	1542.3	1536.2	1509.8
20°	1102.5	1105.2	1143.9	1124.5	1101.0
22.5°	804.5	814.4	860.2	810.2	791.8
25°	535.7	555.9	604.0	541.8	524.7
27.5°	329.4	338.7	387.5	325.2	315.9
30°	204.9	200.3	223.3	191.7	178.5
32.5°	134.4	128.5	135.9	122.0	111.4
35°	89.9	91.8	86.1	85.5	72.2
37.5°	56.1	64.6	57.0	60.8	46.4
40°	36.3	46.9	40.3	44.5	34.2
42.5°	29.7	36.1	33.1	35.2	30.4
45°	23.7	29.3	29.3	29.3	23.8
47.5°	13.1	19.7	25.1	20.1	13.9
50°	7.4	9.9	19.4	10.3	7.8
52.5°	5.0	5.7	13.3	5.9	5.3
55°	3.8	4.0	7.2	4.2	4.0
57.5°	3.0	3.2	3.8	3.2	3.0
60°	2.3	2.3	2.8	2.5	2.3
62.5°	1.7	1.7	1.9	1.7	1.7
65°	1.3	1.3	1.3	1.3	1.3
67.5°	0.6	0.9	0.9	0.9	0.9
70°	0.6	0.4	0.4	0.4	0.6
72.5°	0.4	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

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° - - 45°-225° - - - - 90°-270°

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



(END OF REPORT)