

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



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: P778229

Luminaire Tested: LERS4D15D010-EC4DR1515309024-4LBS1H

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P778229
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LERS4D15D010-EC4DR1515309024-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1245.5 lumens
Efficiency: N/A
Efficacy: 78.8 lumens/watt
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.23
Luminous Opening: Vertical Cylinder (Dia: 0.35' x H: 0.35')
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

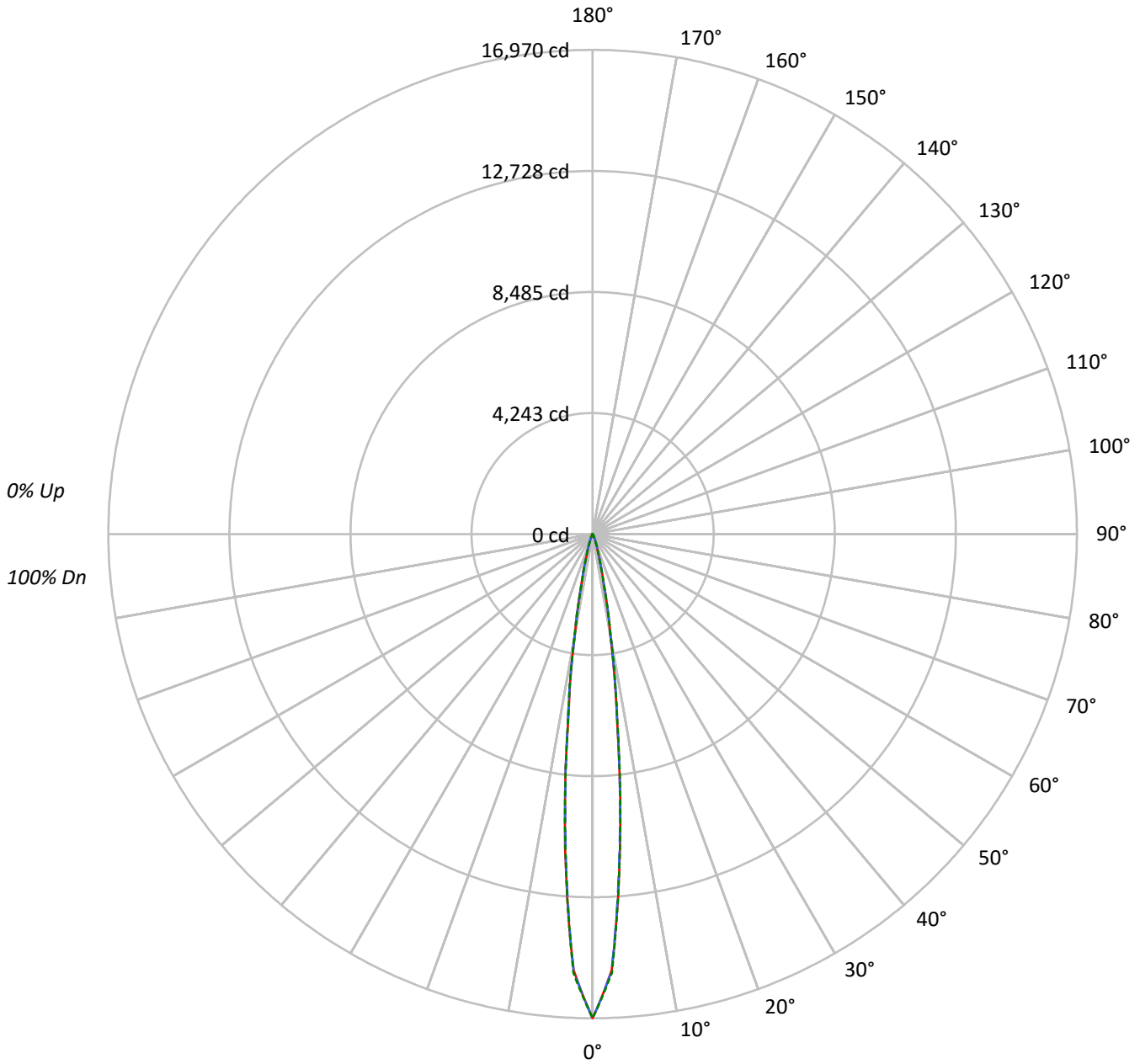


Downlight



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Luminous Intensity Polar Plot





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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	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98						98													
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	98	98	96						96													
3	110	106	103	101	108	105	102	100	103	100	99	100	99	97	98	97	96	94						94													
4	108	103	100	98	106	102	99	97	100	98	96	99	97	95	97	95	94	93						93													
5	106	101	98	95	104	100	97	95	98	96	94	97	95	93	96	94	92	92						92													
6	104	99	95	93	102	98	95	93	97	94	92	96	93	92	95	93	91	90						90													
7	102	97	94	91	101	96	93	91	95	93	91	94	92	90	93	91	90	89						89													
8	100	95	92	90	99	95	92	90	94	91	89	93	91	89	92	90	89	88						88													
9	99	93	90	88	98	93	90	88	92	90	88	92	89	88	91	89	88	87						87													
10	97	92	89	87	96	92	89	87	91	89	87	91	88	87	90	88	86	86						86													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1909407	1909407	1909407
5°	1122064	1107531	1116292
10°	334881	337232	342392
15°	83296	84920	82297
20°	24923	28859	25455
25°	8787	11194	8896
30°	3227	4253	3280
35°	1619	1823	1569
40°	1023	1122	1023
45°	756	805	756
50°	598	598	598
55°	501	501	501
60°	400	400	400
65°	307	307	307
70°	263	263	263
75°	166	166	219
80°	110	110	110
85°	58	58	58

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 805 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	807.8	64.9
10°-20°	332.3	26.7
20°-30°	66.0	5.3
30°-40°	16.5	1.3
40°-50°	8.7	0.7
50°-60°	6.4	0.5
60°-70°	4.5	0.4
70°-80°	2.6	0.2
80°-90°	0.8	0.1
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°	1206.0	96.8
0°-40°	1222.5	98.2
0°-60°	1237.6	99.4
0°-90°	1245.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1245.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16970	16970	16970	16970	16970	
5°	11041	10927	10898	10973	10984	806
15°	959	977	978	960	948	329
25°	113	128	144	127	114	59
35°	22	24	25	24	22	15
45°	11	11	12	11	11	8
55°	7	7	7	7	7	6
65°	4	4	4	4	4	5
75°	2	2	2	2	3	3
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16969.5	16969.5	16969.5	16969.5	16969.5
2.5°	15307.2	15320.1	15325.2	15340.2	15396.3
5°	11040.8	10927.2	10897.8	10973.2	10984.0
7.5°	6540.1	6563.1	6647.2	6665.8	6598.3
10°	3589.0	3618.5	3614.2	3640.0	3669.5
12.5°	1835.5	1812.5	1805.3	1834.7	1793.8
15°	959.0	977.0	977.7	960.5	947.5
17.5°	515.8	536.6	571.1	543.1	500.0
20°	304.6	323.3	352.7	329.7	311.1
22.5°	188.2	203.3	224.1	206.2	191.1
25°	112.8	127.9	143.7	127.2	114.2
27.5°	66.8	79.7	89.8	79.0	66.1
30°	43.1	50.3	56.8	49.6	43.8
32.5°	30.2	33.0	35.9	33.0	30.2
35°	22.3	23.7	25.1	23.7	21.6
37.5°	17.2	18.7	19.4	18.0	16.5
40°	14.4	15.1	15.8	15.1	14.4
42.5°	12.2	12.9	12.9	12.9	12.2
45°	10.8	10.8	11.5	10.8	10.8
47.5°	9.3	9.3	10.1	9.3	9.3
50°	8.6	8.6	8.6	8.6	8.6
52.5°	7.9	7.9	7.9	7.9	7.9
55°	7.2	7.2	7.2	7.2	7.2
57.5°	6.5	6.5	6.5	6.5	6.5
60°	5.7	5.7	5.7	5.7	5.7
62.5°	5.0	5.0	5.0	5.0	5.0
65°	4.3	4.3	4.3	4.3	4.3
67.5°	4.3	4.3	4.3	4.3	4.3
70°	3.6	3.6	3.6	3.6	3.6
72.5°	2.9	2.9	2.9	2.9	2.9
75°	2.2	2.2	2.2	2.2	2.9
77.5°	2.2	2.2	2.2	2.2	2.2
80°	1.4	1.4	1.4	1.4	1.4
82.5°	1.4	1.4	1.4	1.4	1.4
85°	0.7	0.7	0.7	0.7	0.7
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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(END OF REPORT)