

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: P778248

Luminaire Tested: LERS4D15D010-EC4DR1515309050-4LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P778248
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-EC4DR1515309050-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1436.5 lumens
Efficiency: N/A
Efficacy: 90.9 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 (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



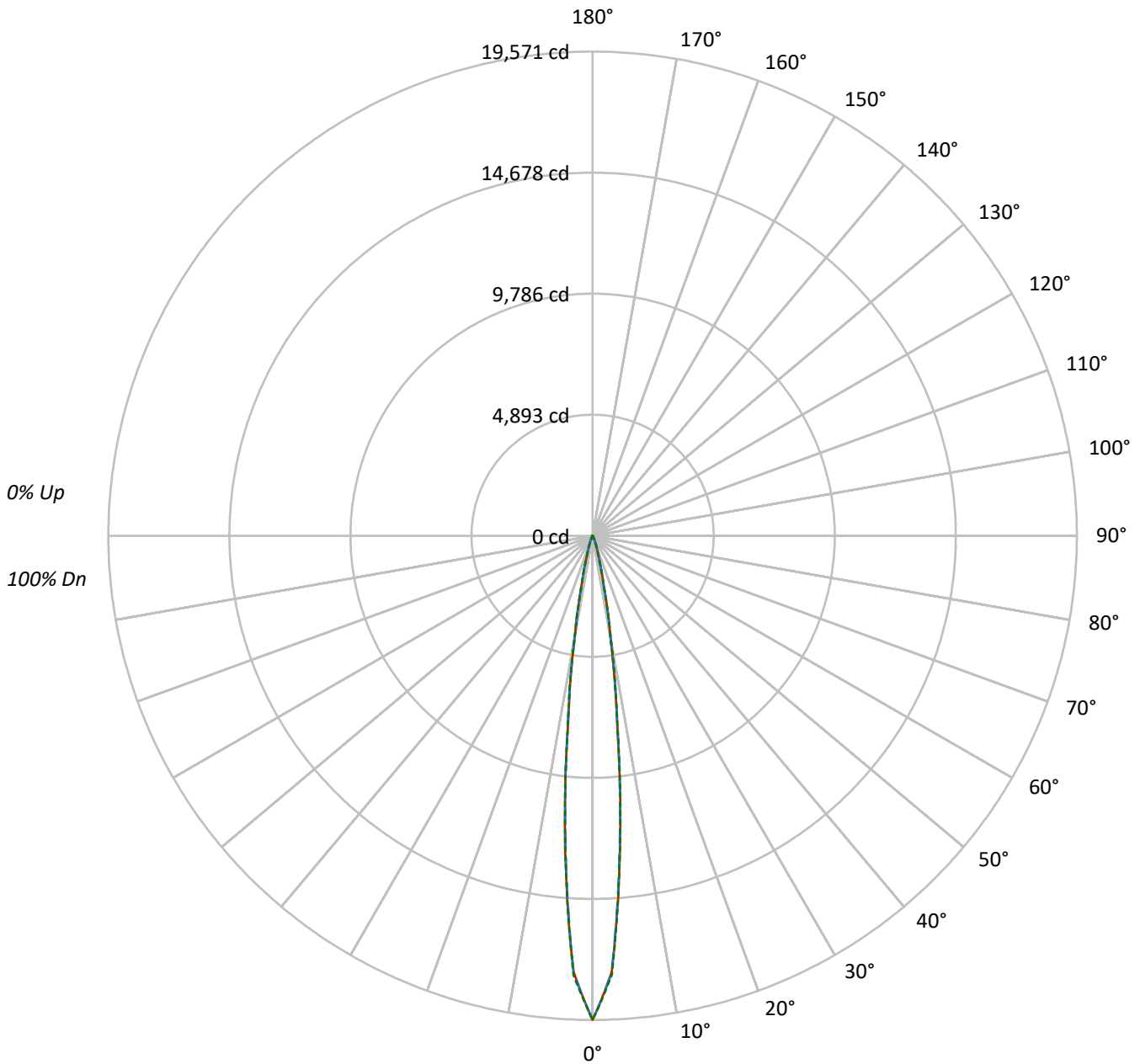
Downlight



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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°	2202162	2202162	2202162
5°	1294092	1277333	1287445
10°	386228	388934	394887
15°	96072	97940	94917
20°	28744	33286	29350
25°	10135	12908	10260
30°	3722	4905	3782
35°	1866	2106	1808
40°	1179	1292	1179
45°	868	931	868
50°	688	688	688
55°	578	578	578
60°	463	463	463
65°	357	357	357
70°	300	300	300
75°	189	189	249
80°	134	134	134
85°	66	66	66

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 931 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	931.6	64.9
10°-20°	383.2	26.7
20°-30°	76.1	5.3
30°-40°	19.0	1.3
40°-50°	10.0	0.7
50°-60°	7.4	0.5
60°-70°	5.2	0.4
70°-80°	3.0	0.2
80°-90°	0.9	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°	1391.0	96.8
0°-40°	1409.9	98.2
0°-60°	1427.3	99.4
0°-90°	1436.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1436.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	19571	19571	19571	19571	19571	
5°	12734	12603	12569	12656	12668	930
15°	1106	1127	1128	1108	1093	379
25°	130	148	166	147	132	68
35°	26	27	29	27	25	17
45°	12	12	13	12	12	10
55°	8	8	8	8	8	7
65°	5	5	5	5	5	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°	19571.3	19571.3	19571.3	19571.3	19571.3
2.5°	17654.1	17669.0	17674.8	17692.2	17756.8
5°	12733.5	12602.6	12568.6	12655.6	12668.1
7.5°	7542.8	7569.4	7666.3	7687.8	7609.9
10°	4139.3	4173.3	4168.3	4198.1	4232.1
12.5°	2116.9	2090.4	2082.1	2116.0	2068.8
15°	1106.1	1126.8	1127.6	1107.7	1092.8
17.5°	594.9	618.9	658.7	626.4	576.6
20°	351.3	372.8	406.8	380.3	358.7
22.5°	217.1	234.5	258.5	237.8	220.4
25°	130.1	147.5	165.7	146.6	131.7
27.5°	77.1	92.0	103.6	91.1	76.2
30°	49.7	58.0	65.5	57.2	50.5
32.5°	34.8	38.1	41.4	38.1	34.8
35°	25.7	27.3	29.0	27.3	24.9
37.5°	19.9	21.5	22.4	20.7	19.1
40°	16.6	17.4	18.2	17.4	16.6
42.5°	14.1	14.9	14.9	14.9	14.1
45°	12.4	12.4	13.3	12.4	12.4
47.5°	10.8	10.8	11.6	10.8	10.8
50°	9.9	9.9	9.9	9.9	9.9
52.5°	9.1	9.1	9.1	9.1	9.1
55°	8.3	8.3	8.3	8.3	8.3
57.5°	7.5	7.5	7.5	7.5	7.5
60°	6.6	6.6	6.6	6.6	6.6
62.5°	5.8	5.8	5.8	5.8	5.8
65°	5.0	5.0	5.0	5.0	5.0
67.5°	5.0	5.0	5.0	5.0	5.0
70°	4.1	4.1	4.1	4.1	4.1
72.5°	3.3	3.3	3.3	3.3	3.3
75°	2.5	2.5	2.5	2.5	3.3
77.5°	2.5	2.5	2.5	2.5	2.5
80°	1.7	1.7	1.7	1.7	1.7
82.5°	1.7	1.7	1.7	1.7	1.7
85°	0.8	0.8	0.8	0.8	0.8
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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