

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: P778244

Luminaire Tested: LERS4D15D010-EC4DR1515309040-4LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P778244
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-EC4DR1515309040-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1453.6 lumens
Efficiency: N/A
Efficacy: 92.0 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



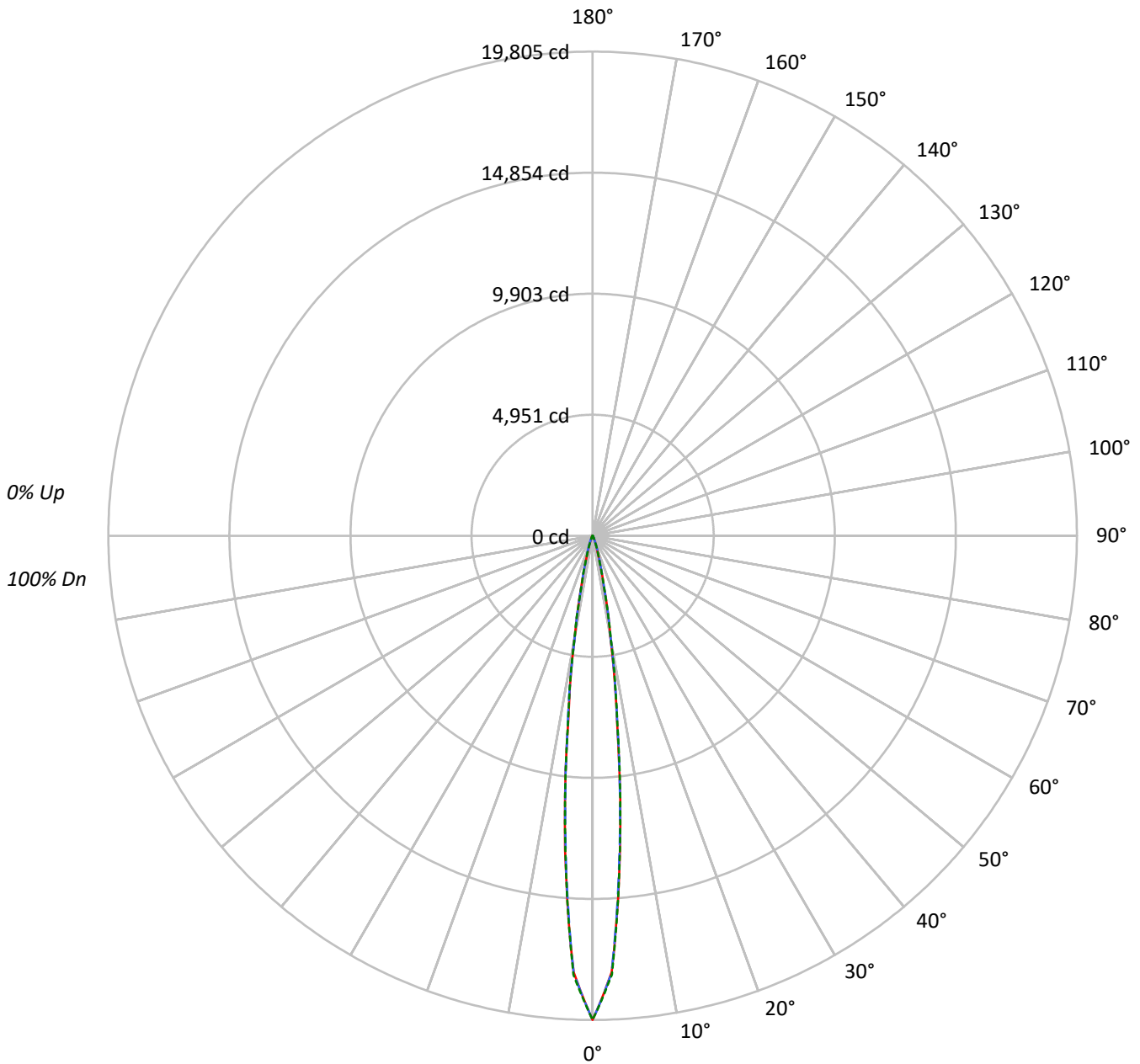
Downlight



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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°	2228435	2228435	2228435
5°	1309539	1292577	1302801
10°	390838	393571	399599
15°	97219	99112	96055
20°	29088	33686	29702
25°	10252	13064	10384
30°	3767	4957	3826
35°	1888	2128	1830
40°	1193	1307	1193
45°	882	938	882
50°	702	702	702
55°	585	585	585
60°	470	470	470
65°	357	357	357
70°	307	307	307
75°	189	189	257
80°	134	134	134
85°	66	66	66

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 938 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	942.7	64.9
10°-20°	387.8	26.7
20°-30°	77.0	5.3
30°-40°	19.2	1.3
40°-50°	10.1	0.7
50°-60°	7.5	0.5
60°-70°	5.3	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°	1407.5	96.8
0°-40°	1426.8	98.2
0°-60°	1444.4	99.4
0°-90°	1453.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1453.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	19805	19805	19805	19805	19805	
5°	12886	12753	12719	12807	12819	941
15°	1119	1140	1141	1121	1106	384
25°	132	149	168	148	133	69
35°	26	28	29	28	25	18
45°	13	13	13	13	13	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°	19804.8	19804.8	19804.8	19804.8	19804.8
2.5°	17864.7	17879.8	17885.7	17903.3	17968.7
5°	12885.5	12753.0	12718.6	12806.6	12819.2
7.5°	7632.8	7659.7	7757.8	7779.6	7700.8
10°	4188.7	4223.0	4218.0	4248.2	4282.6
12.5°	2142.1	2115.3	2106.9	2141.3	2093.5
15°	1119.3	1140.2	1141.1	1120.9	1105.9
17.5°	602.0	626.3	666.5	633.8	583.5
20°	355.5	377.3	411.7	384.8	363.0
22.5°	219.7	237.3	261.6	240.6	223.0
25°	131.6	149.2	167.7	148.4	133.3
27.5°	78.0	93.1	104.8	92.2	77.1
30°	50.3	58.7	66.2	57.8	51.1
32.5°	35.2	38.6	41.9	38.6	35.2
35°	26.0	27.7	29.3	27.7	25.2
37.5°	20.1	21.8	22.6	21.0	19.3
40°	16.8	17.6	18.4	17.6	16.8
42.5°	14.3	15.1	15.1	15.1	14.3
45°	12.6	12.6	13.4	12.6	12.6
47.5°	10.9	10.9	11.7	10.9	10.9
50°	10.1	10.1	10.1	10.1	10.1
52.5°	9.2	9.2	9.2	9.2	9.2
55°	8.4	8.4	8.4	8.4	8.4
57.5°	7.5	7.5	7.5	7.5	7.5
60°	6.7	6.7	6.7	6.7	6.7
62.5°	5.9	5.9	5.9	5.9	5.9
65°	5.0	5.0	5.0	5.0	5.0
67.5°	5.0	5.0	5.0	5.0	5.0
70°	4.2	4.2	4.2	4.2	4.2
72.5°	3.4	3.4	3.4	3.4	3.4
75°	2.5	2.5	2.5	2.5	3.4
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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— 0°-180° - - 45°-225° - - - - 90°-270°

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