

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: P778228

Luminaire Tested: LERS4D15D010-EC4DR1515309024-4LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P778228
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-EC4DR1515309024-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1168.9 lumens
Efficiency: N/A
Efficacy: 74.0 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 (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

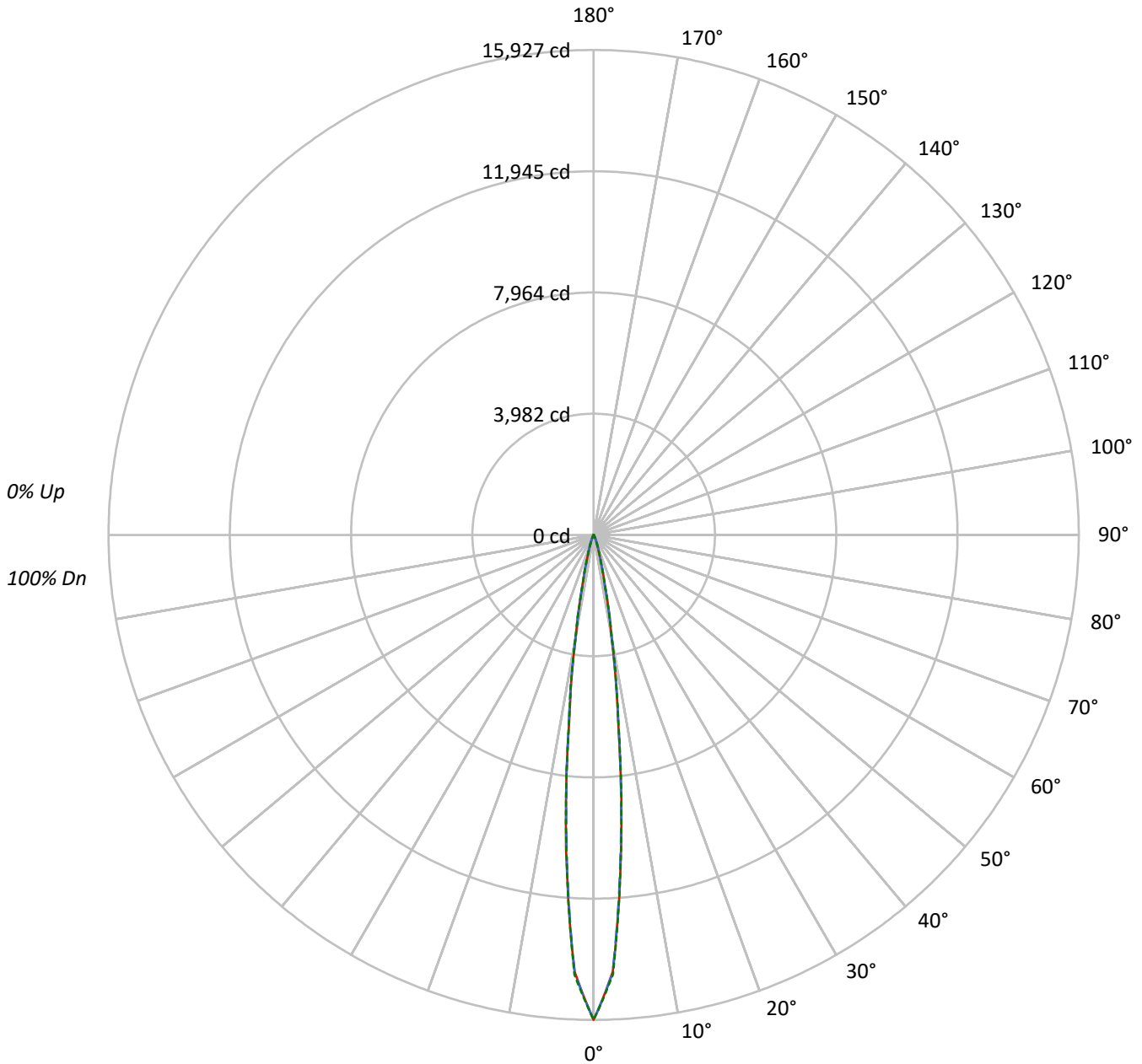


Downlight



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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	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	99	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°	1792071	1792071	1792071
5°	1053109	1039471	1047692
10°	314307	316509	321351
15°	78180	79700	77242
20°	23393	27083	23884
25°	8250	10501	8351
30°	3033	3991	3078
35°	1518	1714	1467
40°	959	1051	959
45°	707	756	707
50°	563	563	563
55°	466	466	466
60°	379	379	379
65°	285	285	285
70°	249	249	249
75°	151	151	204
80°	102	102	102
85°	58	58	58

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 756 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	758.1	64.9
10°-20°	311.8	26.7
20°-30°	61.9	5.3
30°-40°	15.5	1.3
40°-50°	8.1	0.7
50°-60°	6.0	0.5
60°-70°	4.2	0.4
70°-80°	2.4	0.2
80°-90°	0.7	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°	1131.9	96.8
0°-40°	1147.4	98.2
0°-60°	1161.5	99.4
0°-90°	1168.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1168.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15927	15927	15927	15927	15927	
5°	10362	10256	10228	10299	10309	757
15°	900	917	918	902	889	309
25°	106	120	135	119	107	56
35°	21	22	24	22	20	14
45°	10	10	11	10	10	8
55°	7	7	7	7	7	6
65°	4	4	4	4	4	4
75°	2	2	2	2	3	2
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°	15926.7	15926.7	15926.7	15926.7	15926.7
2.5°	14366.6	14378.7	14383.4	14397.6	14450.2
5°	10362.3	10255.8	10228.1	10298.9	10309.0
7.5°	6138.2	6159.8	6238.7	6256.2	6192.8
10°	3368.5	3396.1	3392.1	3416.3	3444.0
12.5°	1722.7	1701.1	1694.3	1722.0	1683.6
15°	900.1	917.0	917.6	901.5	889.3
17.5°	484.1	503.7	536.0	509.7	469.3
20°	285.9	303.4	331.0	309.5	291.9
22.5°	176.6	190.8	210.4	193.5	179.3
25°	105.9	120.0	134.8	119.3	107.2
27.5°	62.7	74.8	84.3	74.2	62.0
30°	40.5	47.2	53.3	46.5	41.1
32.5°	28.3	31.0	33.7	31.0	28.3
35°	20.9	22.2	23.6	22.2	20.2
37.5°	16.2	17.5	18.2	16.9	15.5
40°	13.5	14.2	14.8	14.2	13.5
42.5°	11.5	12.1	12.1	12.1	11.5
45°	10.1	10.1	10.8	10.1	10.1
47.5°	8.8	8.8	9.4	8.8	8.8
50°	8.1	8.1	8.1	8.1	8.1
52.5°	7.4	7.4	7.4	7.4	7.4
55°	6.7	6.7	6.7	6.7	6.7
57.5°	6.1	6.1	6.1	6.1	6.1
60°	5.4	5.4	5.4	5.4	5.4
62.5°	4.7	4.7	4.7	4.7	4.7
65°	4.0	4.0	4.0	4.0	4.0
67.5°	4.0	4.0	4.0	4.0	4.0
70°	3.4	3.4	3.4	3.4	3.4
72.5°	2.7	2.7	2.7	2.7	2.7
75°	2.0	2.0	2.0	2.0	2.7
77.5°	2.0	2.0	2.0	2.0	2.0
80°	1.3	1.3	1.3	1.3	1.3
82.5°	1.3	1.3	1.3	1.3	1.3
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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