

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: P777920

Luminaire Tested: LERS4D10D010-EC4DR150210IC9027-4LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P777920
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: LERS4D10D010-EC4DR150210IC9027-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 965.7 lumens
Efficiency: N/A
Efficacy: 82.5 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): 11.7
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



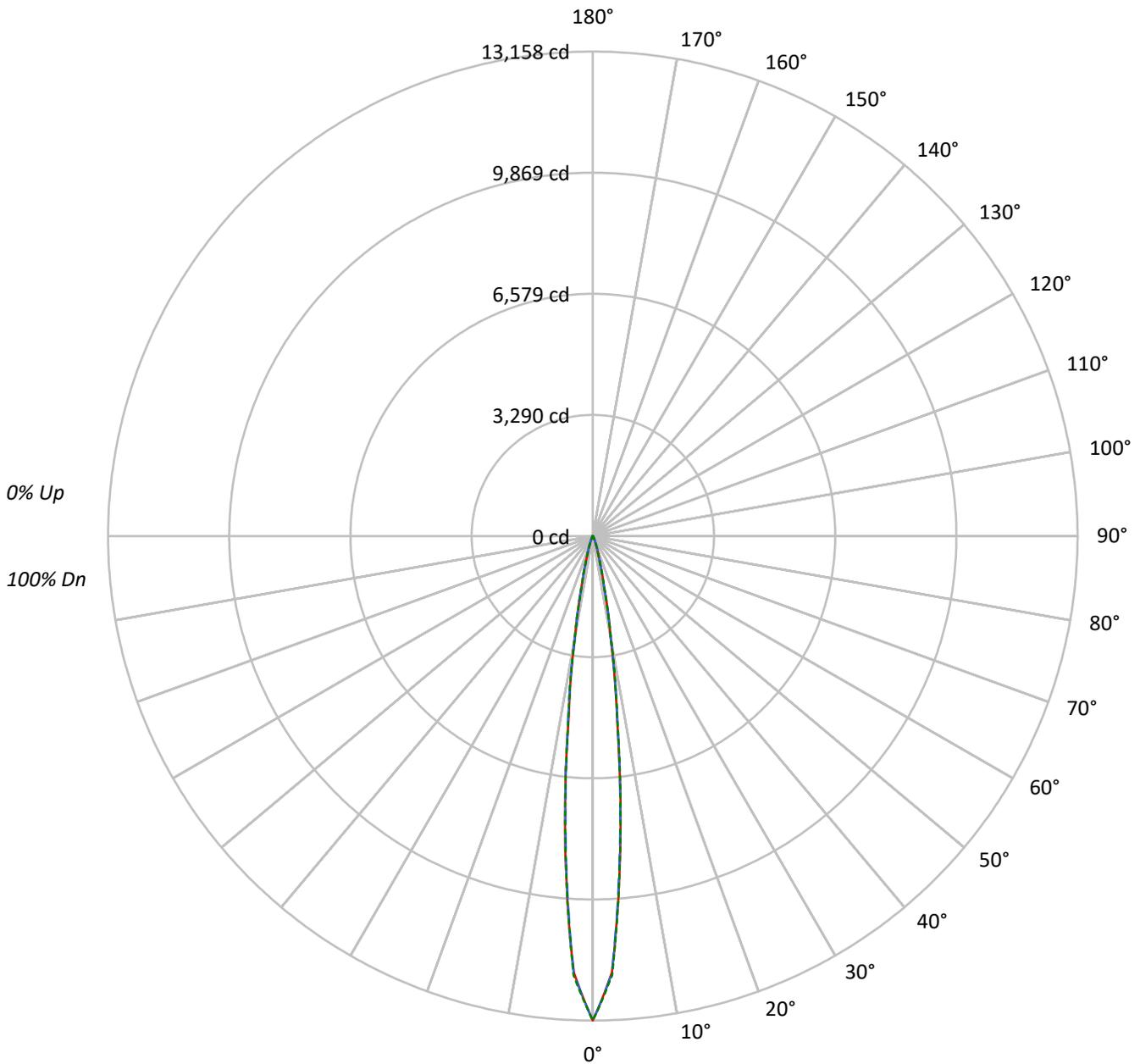
Downlight



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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°	1480481	1480481	1480481
5°	869994	858734	865523
10°	259656	261476	265479
15°	64587	65846	63814
20°	19327	22379	19736
25°	6809	8678	6902
30°	2501	3295	2546
35°	1256	1416	1213
40°	788	873	788
45°	588	623	588
50°	466	466	466
55°	390	390	390
60°	316	316	316
65°	236	236	236
70°	205	205	205
75°	128	128	166
80°	87	87	87
85°	50	50	50

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 623 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	626.3	64.9
10°-20°	257.6	26.7
20°-30°	51.2	5.3
30°-40°	12.8	1.3
40°-50°	6.7	0.7
50°-60°	5.0	0.5
60°-70°	3.5	0.4
70°-80°	2.0	0.2
80°-90°	0.6	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°	935.1	96.8
0°-40°	947.9	98.2
0°-60°	959.6	99.4
0°-90°	965.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	965.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13158	13158	13158	13158	13158	
5°	8560	8472	8450	8508	8516	625
15°	744	758	758	745	735	255
25°	87	99	111	99	89	46
35°	17	18	20	18	17	12
45°	8	8	9	8	8	7
55°	6	6	6	6	6	5
65°	3	3	3	3	3	4
75°	2	2	2	2	2	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°	13157.5	13157.5	13157.5	13157.5	13157.5
2.5°	11868.6	11878.6	11882.5	11894.2	11937.6
5°	8560.5	8472.5	8449.7	8508.2	8516.5
7.5°	5070.9	5088.8	5153.9	5168.4	5116.0
10°	2782.8	2805.6	2802.3	2822.3	2845.2
12.5°	1423.1	1405.3	1399.7	1422.6	1390.8
15°	743.6	757.5	758.1	744.7	734.7
17.5°	399.9	416.1	442.8	421.1	387.7
20°	236.2	250.6	273.5	255.7	241.2
22.5°	145.9	157.6	173.8	159.9	148.2
25°	87.4	99.1	111.4	98.6	88.6
27.5°	51.8	61.8	69.6	61.3	51.2
30°	33.4	39.0	44.0	38.4	34.0
32.5°	23.4	25.6	27.8	25.6	23.4
35°	17.3	18.4	19.5	18.4	16.7
37.5°	13.4	14.5	15.0	13.9	12.8
40°	11.1	11.7	12.3	11.7	11.1
42.5°	9.5	10.0	10.0	10.0	9.5
45°	8.4	8.4	8.9	8.4	8.4
47.5°	7.2	7.2	7.8	7.2	7.2
50°	6.7	6.7	6.7	6.7	6.7
52.5°	6.1	6.1	6.1	6.1	6.1
55°	5.6	5.6	5.6	5.6	5.6
57.5°	5.0	5.0	5.0	5.0	5.0
60°	4.5	4.5	4.5	4.5	4.5
62.5°	3.9	3.9	3.9	3.9	3.9
65°	3.3	3.3	3.3	3.3	3.3
67.5°	3.3	3.3	3.3	3.3	3.3
70°	2.8	2.8	2.8	2.8	2.8
72.5°	2.2	2.2	2.2	2.2	2.2
75°	1.7	1.7	1.7	1.7	2.2
77.5°	1.7	1.7	1.7	1.7	1.7
80°	1.1	1.1	1.1	1.1	1.1
82.5°	1.1	1.1	1.1	1.1	1.1
85°	0.6	0.6	0.6	0.6	0.6
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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