

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: P777622

Luminaire Tested: LERS4D08D010-EC4DR150210IC9040-4LBS1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P777622
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: LERS4D08D010-EC4DR150210IC9040-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 905.2 lumens
Efficiency: N/A
Efficacy: 101.7 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): 8.9
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



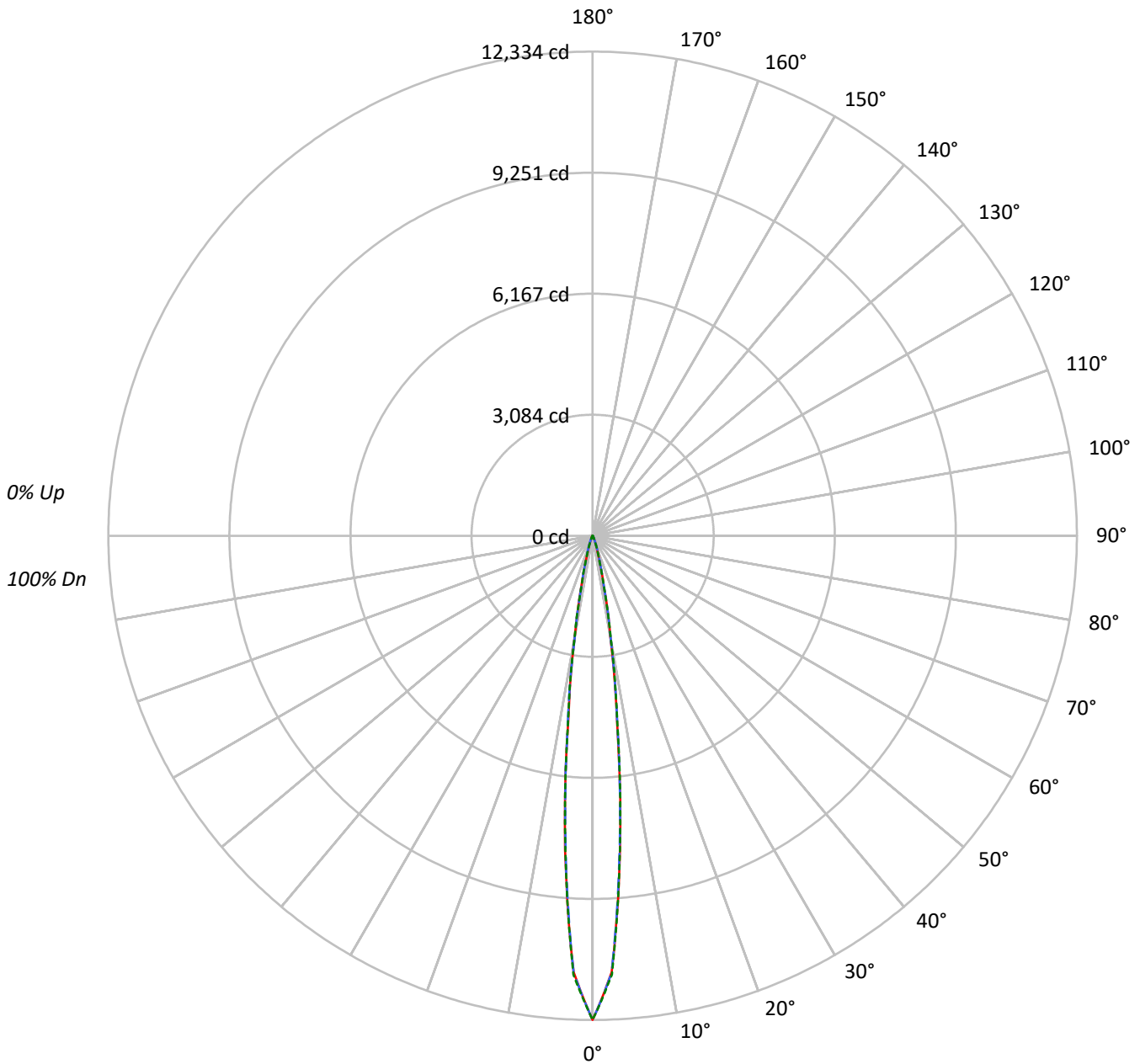
Downlight



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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°	1387810	1387810	1387810
5°	815541	804982	811354
10°	243402	245110	248861
15°	60548	61720	59818
20°	18116	20979	18500
25°	6388	8133	6466
30°	2344	3085	2389
35°	1176	1329	1140
40°	739	817	739
45°	546	588	546
50°	438	438	438
55°	362	362	362
60°	295	295	295
65°	221	221	221
70°	190	190	190
75°	121	121	159
80°	79	79	79
85°	42	42	42

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 588 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	587.1	64.9
10°-20°	241.5	26.7
20°-30°	48.0	5.3
30°-40°	12.0	1.3
40°-50°	6.3	0.7
50°-60°	4.7	0.5
60°-70°	3.3	0.4
70°-80°	1.9	0.2
80°-90°	0.5	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°	876.6	96.8
0°-40°	888.6	98.2
0°-60°	899.5	99.4
0°-90°	905.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	905.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12334	12334	12334	12334	12334	
5°	8025	7942	7921	7976	7984	586
15°	697	710	711	698	689	239
25°	82	93	104	92	83	43
35°	16	17	18	17	16	11
45°	8	8	8	8	8	6
55°	5	5	5	5	5	5
65°	3	3	3	3	3	3
75°	2	2	2	2	2	2
85°	0	0	0	0	0	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12333.9	12333.9	12333.9	12333.9	12333.9
2.5°	11125.7	11135.1	11138.8	11149.7	11190.4
5°	8024.7	7942.2	7920.8	7975.6	7983.5
7.5°	4753.5	4770.2	4831.3	4844.9	4795.8
10°	2608.6	2630.0	2626.9	2645.7	2667.1
12.5°	1334.1	1317.4	1312.1	1333.5	1303.8
15°	697.1	710.1	710.6	698.1	688.7
17.5°	374.9	390.0	415.1	394.7	363.4
20°	221.4	235.0	256.4	239.7	226.1
22.5°	136.8	147.8	162.9	149.9	138.9
25°	82.0	92.9	104.4	92.4	83.0
27.5°	48.6	58.0	65.3	57.4	48.0
30°	31.3	36.5	41.2	36.0	31.9
32.5°	21.9	24.0	26.1	24.0	21.9
35°	16.2	17.2	18.3	17.2	15.7
37.5°	12.5	13.6	14.1	13.1	12.0
40°	10.4	11.0	11.5	11.0	10.4
42.5°	8.9	9.4	9.4	9.4	8.9
45°	7.8	7.8	8.4	7.8	7.8
47.5°	6.8	6.8	7.3	6.8	6.8
50°	6.3	6.3	6.3	6.3	6.3
52.5°	5.7	5.7	5.7	5.7	5.7
55°	5.2	5.2	5.2	5.2	5.2
57.5°	4.7	4.7	4.7	4.7	4.7
60°	4.2	4.2	4.2	4.2	4.2
62.5°	3.7	3.7	3.7	3.7	3.7
65°	3.1	3.1	3.1	3.1	3.1
67.5°	3.1	3.1	3.1	3.1	3.1
70°	2.6	2.6	2.6	2.6	2.6
72.5°	2.1	2.1	2.1	2.1	2.1
75°	1.6	1.6	1.6	1.6	2.1
77.5°	1.6	1.6	1.6	1.6	1.6
80°	1.0	1.0	1.0	1.0	1.0
82.5°	1.0	1.0	1.0	1.0	1.0
85°	0.5	0.5	0.5	0.5	0.5
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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