

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: P776998

Luminaire Tested: LERS4D02D010-EC4DR150210IC9040-4LBS1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P776998
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: LERS4D02D010-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: 422.0 lumens
Efficiency: N/A
Efficacy: 82.8 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): 5.1
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



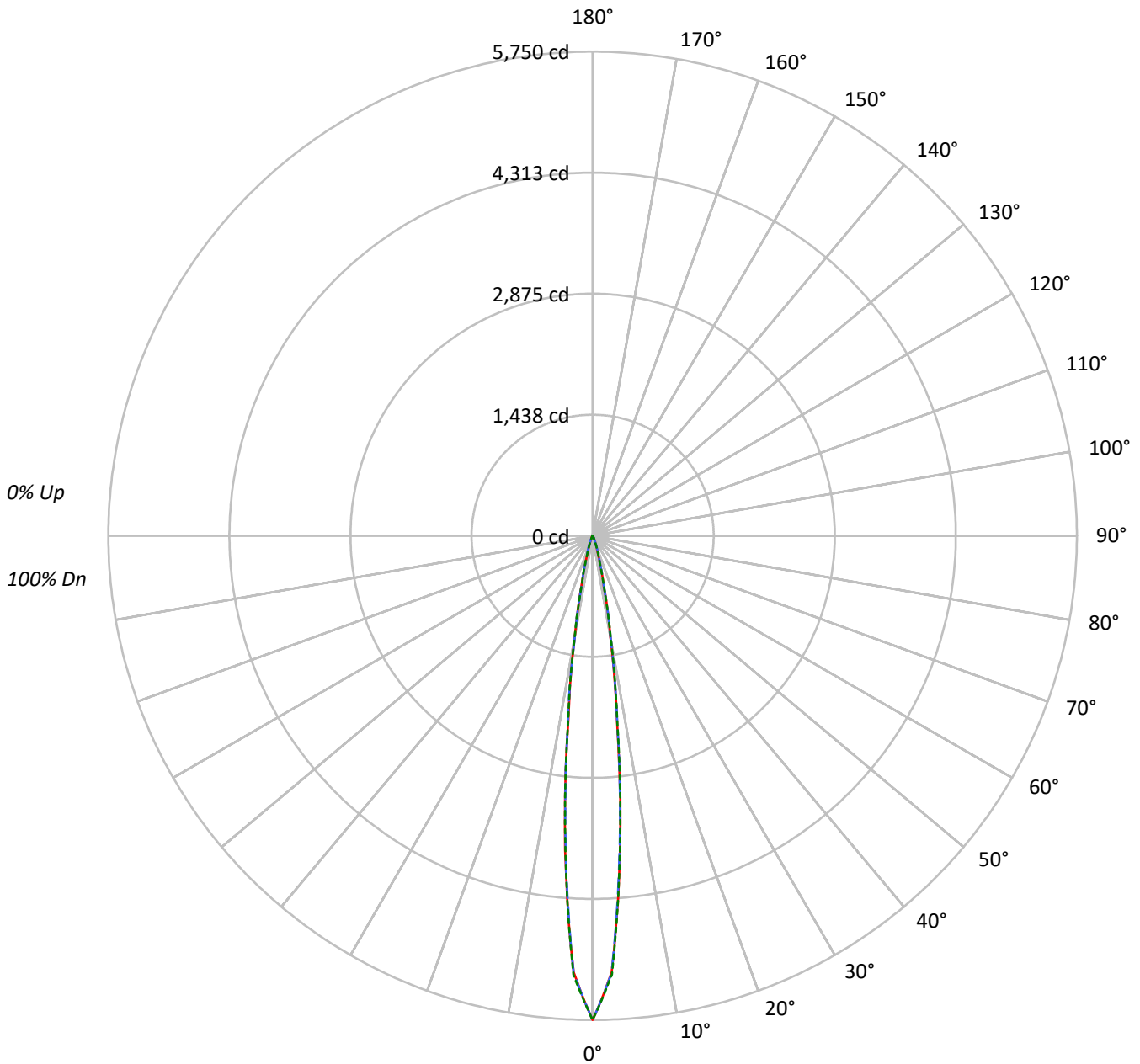
Downlight



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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																			
1	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98																			
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	98	98	96																			
3	110	106	103	101	108	105	102	100	103	100	99	100	99	97	98	97	96	94																			
4	108	103	100	98	106	102	99	97	100	98	96	99	97	95	97	95	94	93																			
5	106	101	98	95	104	100	97	95	98	96	94	97	95	93	96	94	92	92																			
6	104	99	95	93	102	98	95	93	97	94	92	96	93	92	95	93	91	90																			
7	102	97	94	91	101	96	93	91	95	93	91	94	92	90	93	91	90	89																			
8	100	95	92	90	99	95	92	90	94	91	89	93	91	89	92	90	89	88																			
9	99	93	90	88	98	93	90	88	92	90	88	92	89	88	91	89	88	87																			
10	97	92	89	87	96	92	89	87	91	89	87	91	88	87	90	88	86	86																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	647023	647023	647023
5°	380224	375295	378263
10°	113481	114274	116019
15°	28228	28776	27890
20°	8444	9778	8624
25°	2976	3794	3015
30°	1093	1438	1108
35°	545	617	530
40°	348	383	348
45°	259	273	259
50°	202	202	202
55°	167	167	167
60°	133	133	133
65°	107	107	107
70°	88	88	88
75°	53	53	76
80°	39	39	39
85°	17	17	17

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 273 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.7	64.9
10°-20°	112.6	26.7
20°-30°	22.4	5.3
30°-40°	5.6	1.3
40°-50°	2.9	0.7
50°-60°	2.2	0.5
60°-70°	1.5	0.4
70°-80°	0.9	0.2
80°-90°	0.3	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°	408.7	96.8
0°-40°	414.3	98.2
0°-60°	419.4	99.4
0°-90°	422.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	422.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5750	5750	5750	5750	5750	
5°	3741	3703	3693	3718	3722	273
15°	325	331	331	326	321	111
25°	38	43	49	43	39	20
35°	8	8	8	8	7	5
45°	4	4	4	4	4	3
55°	2	2	2	2	2	2
65°	2	2	2	2	2	2
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5750.3	5750.3	5750.3	5750.3	5750.3
2.5°	5187.0	5191.4	5193.1	5198.2	5217.2
5°	3741.3	3702.8	3692.8	3718.4	3722.0
7.5°	2216.2	2224.0	2252.4	2258.8	2235.9
10°	1216.2	1226.2	1224.7	1233.5	1243.4
12.5°	622.0	614.2	611.7	621.7	607.8
15°	325.0	331.1	331.3	325.5	321.1
17.5°	174.8	181.8	193.5	184.0	169.4
20°	103.2	109.5	119.5	111.7	105.4
22.5°	63.8	68.9	75.9	69.9	64.8
25°	38.2	43.3	48.7	43.1	38.7
27.5°	22.6	27.0	30.4	26.8	22.4
30°	14.6	17.0	19.2	16.8	14.8
32.5°	10.2	11.2	12.2	11.2	10.2
35°	7.5	8.0	8.5	8.0	7.3
37.5°	5.8	6.3	6.6	6.1	5.6
40°	4.9	5.1	5.4	5.1	4.9
42.5°	4.1	4.4	4.4	4.4	4.1
45°	3.7	3.7	3.9	3.7	3.7
47.5°	3.2	3.2	3.4	3.2	3.2
50°	2.9	2.9	2.9	2.9	2.9
52.5°	2.7	2.7	2.7	2.7	2.7
55°	2.4	2.4	2.4	2.4	2.4
57.5°	2.2	2.2	2.2	2.2	2.2
60°	1.9	1.9	1.9	1.9	1.9
62.5°	1.7	1.7	1.7	1.7	1.7
65°	1.5	1.5	1.5	1.5	1.5
67.5°	1.5	1.5	1.5	1.5	1.5
70°	1.2	1.2	1.2	1.2	1.2
72.5°	1.0	1.0	1.0	1.0	1.0
75°	0.7	0.7	0.7	0.7	1.0
77.5°	0.7	0.7	0.7	0.7	0.7
80°	0.5	0.5	0.5	0.5	0.5
82.5°	0.5	0.5	0.5	0.5	0.5
85°	0.2	0.2	0.2	0.2	0.2
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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