

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: P777612

Luminaire Tested: LERS4D08D010-EC4DR150210IC9030-4LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P777612
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-EC4DR150210IC9030-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 745.9 lumens
Efficiency: N/A
Efficacy: 83.8 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): 8.9
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



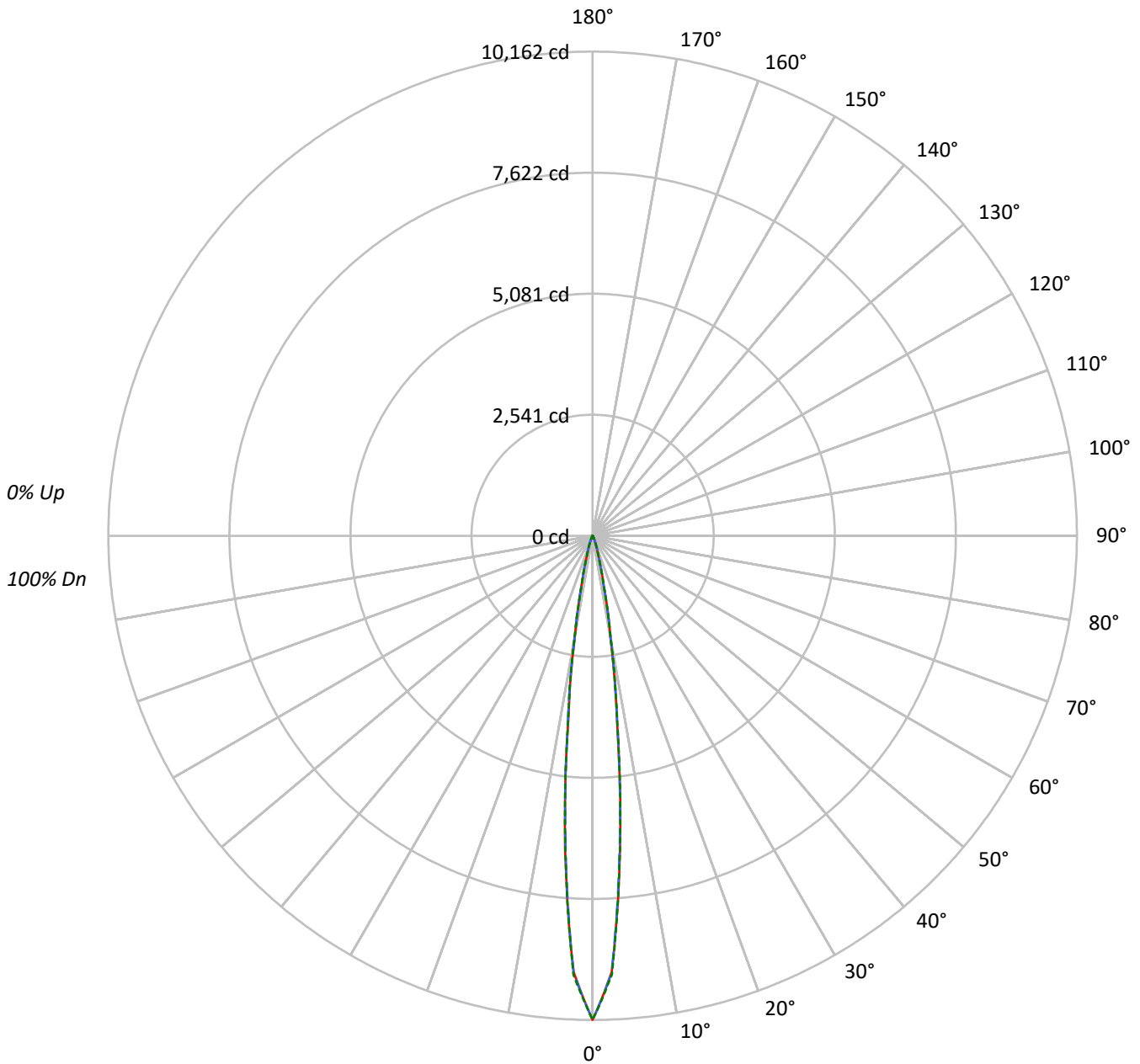
Downlight



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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	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	87	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°	1143461	1143461	1143461
5°	671950	663251	668505
10°	200546	201955	205043
15°	49882	50855	49283
20°	14924	17281	15244
25°	5258	6699	5328
30°	1932	2546	1962
35°	966	1097	937
40°	611	675	611
45°	455	483	455
50°	362	362	362
55°	299	299	299
60°	239	239	239
65°	186	186	186
70°	161	161	161
75°	98	98	128
80°	71	71	71
85°	33	33	33

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 483 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	483.7	64.9
10°-20°	199.0	26.7
20°-30°	39.5	5.3
30°-40°	9.9	1.3
40°-50°	5.2	0.7
50°-60°	3.8	0.5
60°-70°	2.7	0.4
70°-80°	1.6	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°	722.2	96.8
0°-40°	732.1	98.2
0°-60°	741.1	99.4
0°-90°	745.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	745.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10162	10162	10162	10162	10162	
5°	6612	6544	6526	6571	6578	483
15°	574	585	586	575	567	197
25°	68	77	86	76	68	35
35°	13	14	15	14	13	9
45°	6	6	7	6	6	5
55°	4	4	4	4	4	4
65°	3	3	3	3	3	3
75°	1	1	1	1	2	2
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10162.3	10162.3	10162.3	10162.3	10162.3
2.5°	9166.8	9174.6	9177.6	9186.6	9220.2
5°	6611.8	6543.9	6526.2	6571.4	6577.9
7.5°	3916.6	3930.4	3980.7	3991.9	3951.4
10°	2149.3	2167.0	2164.4	2179.9	2197.5
12.5°	1099.2	1085.4	1081.1	1098.7	1074.2
15°	574.3	585.1	585.5	575.2	567.4
17.5°	308.9	321.4	342.0	325.2	299.4
20°	182.4	193.6	211.2	197.5	186.3
22.5°	112.7	121.7	134.2	123.5	114.4
25°	67.5	76.6	86.0	76.1	68.4
27.5°	40.0	47.8	53.8	47.3	39.6
30°	25.8	30.1	34.0	29.7	26.2
32.5°	18.1	19.8	21.5	19.8	18.1
35°	13.3	14.2	15.1	14.2	12.9
37.5°	10.3	11.2	11.6	10.8	9.9
40°	8.6	9.0	9.5	9.0	8.6
42.5°	7.3	7.7	7.7	7.7	7.3
45°	6.5	6.5	6.9	6.5	6.5
47.5°	5.6	5.6	6.0	5.6	5.6
50°	5.2	5.2	5.2	5.2	5.2
52.5°	4.7	4.7	4.7	4.7	4.7
55°	4.3	4.3	4.3	4.3	4.3
57.5°	3.9	3.9	3.9	3.9	3.9
60°	3.4	3.4	3.4	3.4	3.4
62.5°	3.0	3.0	3.0	3.0	3.0
65°	2.6	2.6	2.6	2.6	2.6
67.5°	2.6	2.6	2.6	2.6	2.6
70°	2.2	2.2	2.2	2.2	2.2
72.5°	1.7	1.7	1.7	1.7	1.7
75°	1.3	1.3	1.3	1.3	1.7
77.5°	1.3	1.3	1.3	1.3	1.3
80°	0.9	0.9	0.9	0.9	0.9
82.5°	0.9	0.9	0.9	0.9	0.9
85°	0.4	0.4	0.4	0.4	0.4
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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