

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: P739858

Luminaire Tested: LD4D05D010-EU4DR150210IC9027-4LBS1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P739858
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: LD4D05D010-EU4DR150210IC9027-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 621.5 lumens
Efficiency: N/A
Efficacy: 82.9 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): 7.5
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



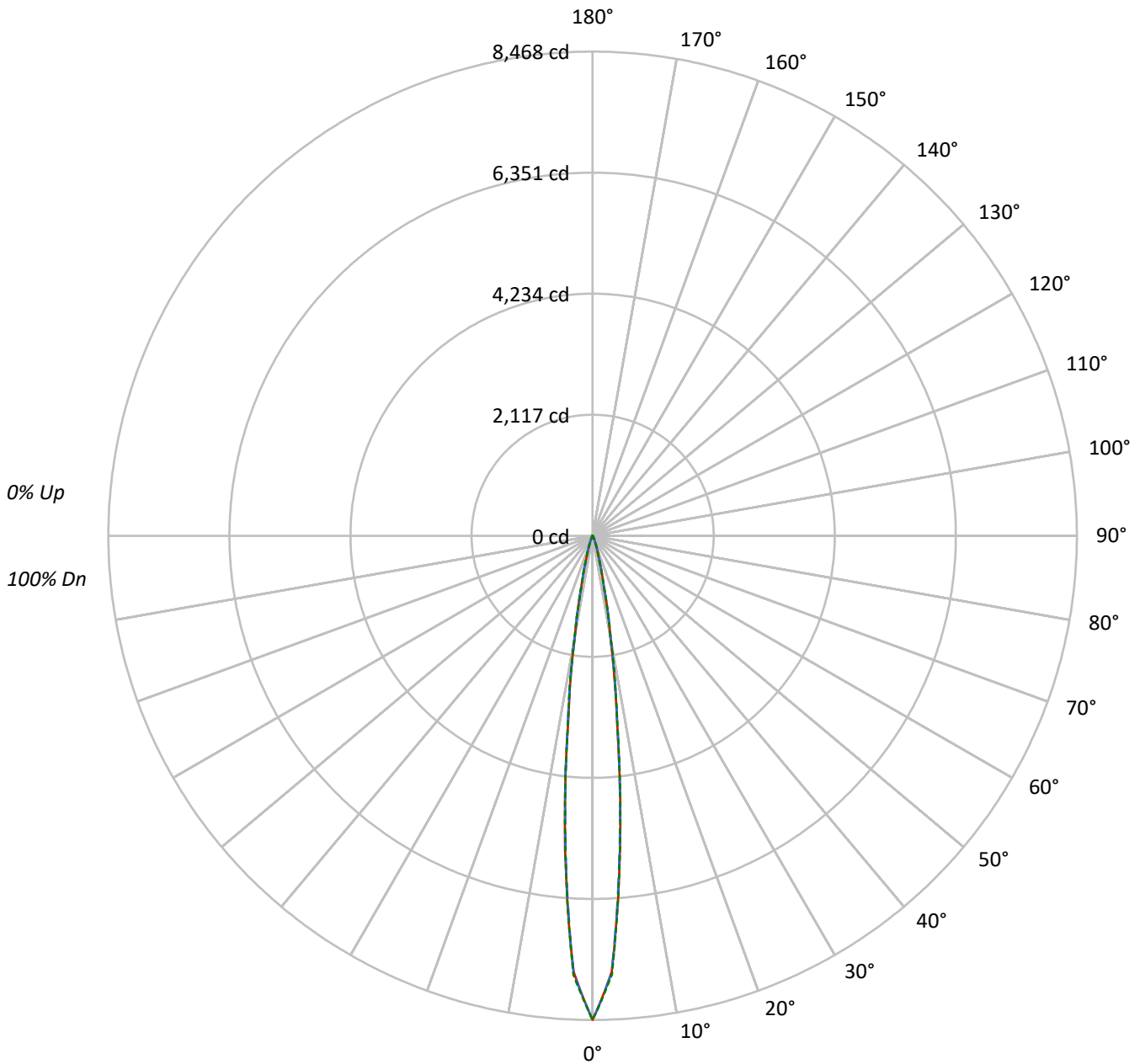
Downlight



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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	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	87	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°	952774	952774	952774
5°	559894	552648	557018
10°	167105	168271	170846
15°	41561	42377	41066
20°	12437	14401	12699
25°	4386	5585	4440
30°	1610	2119	1640
35°	806	908	784
40°	511	561	511
45°	378	399	378
50°	299	299	299
55°	251	251	251
60°	204	204	204
65°	157	157	157
70°	132	132	132
75°	83	83	106
80°	55	55	55
85°	33	33	33

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 399 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	403.1	64.9
10°-20°	165.8	26.7
20°-30°	32.9	5.3
30°-40°	8.2	1.3
40°-50°	4.3	0.7
50°-60°	3.2	0.5
60°-70°	2.3	0.4
70°-80°	1.3	0.2
80°-90°	0.4	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°	601.8	96.8
0°-40°	610.0	98.1
0°-60°	617.5	99.4
0°-90°	621.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	621.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8468	8468	8468	8468	8468	
5°	5509	5453	5438	5476	5481	402
15°	478	488	488	479	473	164
25°	56	64	72	63	57	30
35°	11	12	12	12	11	8
45°	5	5	6	5	5	4
55°	4	4	4	4	4	3
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°	8467.6	8467.6	8467.6	8467.6	8467.6
2.5°	7638.2	7644.6	7647.1	7654.6	7682.6
5°	5509.2	5452.6	5437.9	5475.5	5480.9
7.5°	3263.5	3274.9	3316.9	3326.2	3292.5
10°	1790.9	1805.6	1803.4	1816.3	1831.0
12.5°	915.9	904.4	900.8	915.5	895.1
15°	478.5	487.5	487.9	479.3	472.8
17.5°	257.4	267.8	285.0	271.0	249.5
20°	152.0	161.3	176.0	164.5	155.2
22.5°	93.9	101.4	111.8	102.9	95.4
25°	56.3	63.8	71.7	63.4	57.0
27.5°	33.3	39.8	44.8	39.4	33.0
30°	21.5	25.1	28.3	24.7	21.9
32.5°	15.1	16.5	17.9	16.5	15.1
35°	11.1	11.8	12.5	11.8	10.8
37.5°	8.6	9.3	9.7	9.0	8.2
40°	7.2	7.5	7.9	7.5	7.2
42.5°	6.1	6.5	6.5	6.5	6.1
45°	5.4	5.4	5.7	5.4	5.4
47.5°	4.7	4.7	5.0	4.7	4.7
50°	4.3	4.3	4.3	4.3	4.3
52.5°	3.9	3.9	3.9	3.9	3.9
55°	3.6	3.6	3.6	3.6	3.6
57.5°	3.2	3.2	3.2	3.2	3.2
60°	2.9	2.9	2.9	2.9	2.9
62.5°	2.5	2.5	2.5	2.5	2.5
65°	2.2	2.2	2.2	2.2	2.2
67.5°	2.2	2.2	2.2	2.2	2.2
70°	1.8	1.8	1.8	1.8	1.8
72.5°	1.4	1.4	1.4	1.4	1.4
75°	1.1	1.1	1.1	1.1	1.4
77.5°	1.1	1.1	1.1	1.1	1.1
80°	0.7	0.7	0.7	0.7	0.7
82.5°	0.7	0.7	0.7	0.7	0.7
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

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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