

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: P741867

Luminaire Tested: LD4D10D010-EU4DR150210IC9024-4LBDP1H

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P741867
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: LD4D10D010-EU4DR150210IC9024-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 880.5 lumens
Efficiency: N/A
Efficacy: 75.3 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



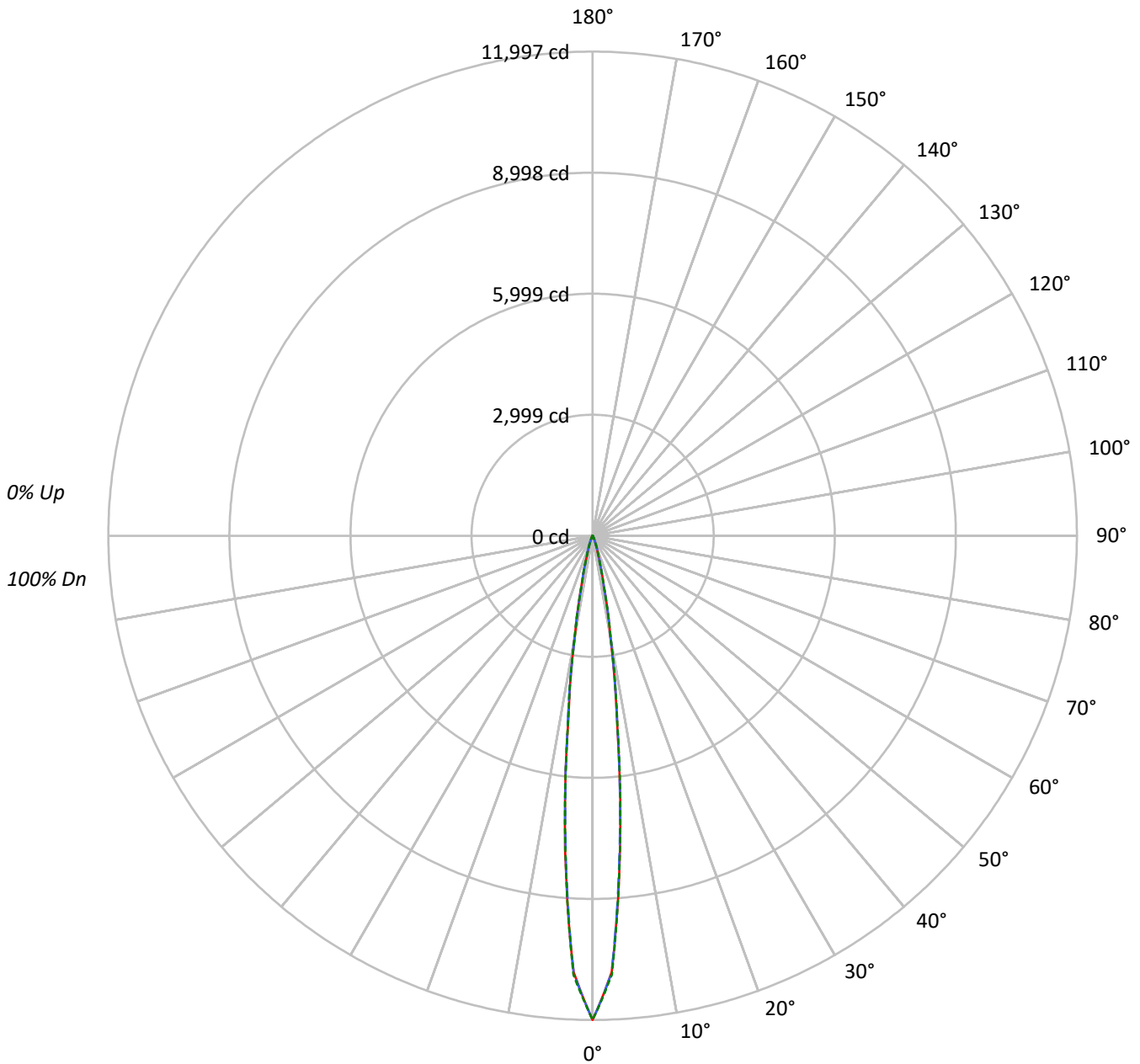
Downlight



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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	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	99	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°	1349936	1349936	1349936
5°	793285	783020	789209
10°	236759	238420	242068
15°	58889	60035	58185
20°	17616	20407	17993
25°	6209	7915	6294
30°	2284	3003	2321
35°	1140	1293	1104
40°	724	795	724
45°	532	567	532
50°	424	424	424
55°	355	355	355
60°	288	288	288
65°	214	214	214
70°	183	183	183
75°	113	113	151
80°	79	79	79
85°	42	42	42

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 567 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	571.1	64.9
10°-20°	234.9	26.7
20°-30°	46.7	5.3
30°-40°	11.7	1.3
40°-50°	6.1	0.7
50°-60°	4.6	0.5
60°-70°	3.2	0.4
70°-80°	1.8	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°	852.7	96.8
0°-40°	864.3	98.2
0°-60°	875.0	99.4
0°-90°	880.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	880.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11997	11997	11997	11997	11997	
5°	7806	7726	7705	7758	7766	570
15°	678	691	691	679	670	232
25°	80	90	102	90	81	42
35°	16	17	18	17	15	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°	11997.3	11997.3	11997.3	11997.3	11997.3
2.5°	10822.1	10831.2	10834.8	10845.4	10885.0
5°	7805.7	7725.5	7704.7	7758.0	7765.6
7.5°	4623.8	4640.1	4699.5	4712.7	4664.9
10°	2537.4	2558.2	2555.2	2573.5	2594.3
12.5°	1297.7	1281.4	1276.3	1297.1	1268.2
15°	678.0	690.7	691.2	679.0	669.9
17.5°	364.7	379.4	403.8	384.0	353.5
20°	215.3	228.5	249.4	233.1	219.9
22.5°	133.1	143.7	158.5	145.8	135.1
25°	79.7	90.4	101.6	89.9	80.8
27.5°	47.2	56.4	63.5	55.9	46.7
30°	30.5	35.6	40.1	35.0	31.0
32.5°	21.3	23.4	25.4	23.4	21.3
35°	15.7	16.8	17.8	16.8	15.2
37.5°	12.2	13.2	13.7	12.7	11.7
40°	10.2	10.7	11.2	10.7	10.2
42.5°	8.6	9.1	9.1	9.1	8.6
45°	7.6	7.6	8.1	7.6	7.6
47.5°	6.6	6.6	7.1	6.6	6.6
50°	6.1	6.1	6.1	6.1	6.1
52.5°	5.6	5.6	5.6	5.6	5.6
55°	5.1	5.1	5.1	5.1	5.1
57.5°	4.6	4.6	4.6	4.6	4.6
60°	4.1	4.1	4.1	4.1	4.1
62.5°	3.6	3.6	3.6	3.6	3.6
65°	3.0	3.0	3.0	3.0	3.0
67.5°	3.0	3.0	3.0	3.0	3.0
70°	2.5	2.5	2.5	2.5	2.5
72.5°	2.0	2.0	2.0	2.0	2.0
75°	1.5	1.5	1.5	1.5	2.0
77.5°	1.5	1.5	1.5	1.5	1.5
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

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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