

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: P742951

Luminaire Tested: LD4D15D010-EU4DR2015309024-4LBCSSQMB

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P742951
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D15D010-EU4DR2015309024-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 20° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1160.3 lumens
Efficiency: N/A
Efficacy: 73.4 lumens/watt
Spacing Criteria (0/90/45): 0.34 / 0.34 / 0.36
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 15.8
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

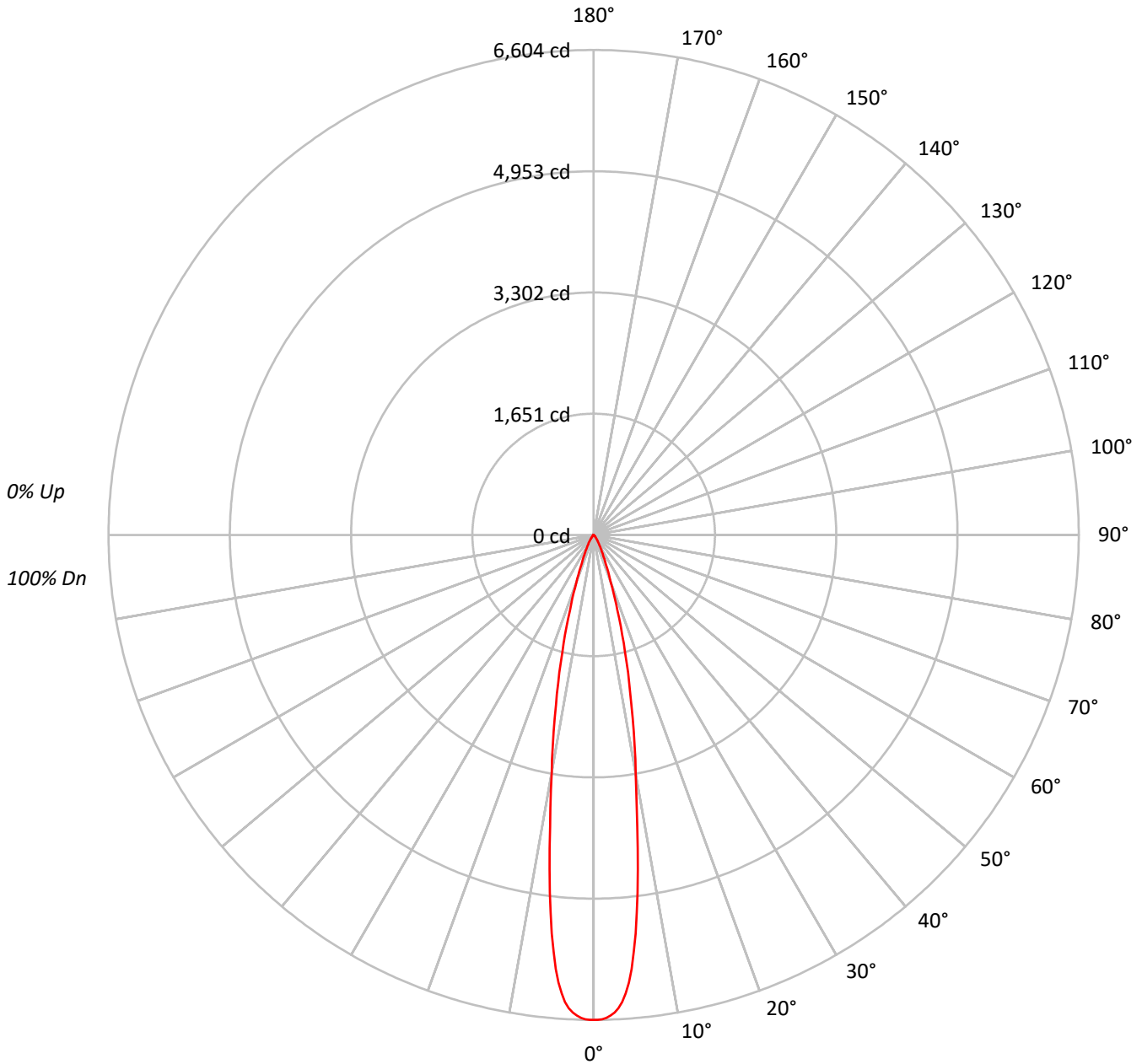


Downlight



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				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	100	100	100
1	115	113	111	109	113	111	109	108	107	106	104	103	102	101	100	99	98	97	97	97	97
2	111	108	105	102	109	106	104	101	103	101	99	100	99	97	98	96	95	94	94	94	94
3	108	103	100	97	106	102	99	96	100	97	95	97	95	93	95	93	92	91	91	91	91
4	105	99	96	93	103	98	95	92	96	93	91	95	92	90	93	91	89	88	88	88	88
5	102	96	92	89	100	95	91	89	94	90	88	92	89	87	91	88	86	85	85	85	85
6	99	93	89	86	98	92	88	86	91	87	85	90	87	84	88	86	84	83	83	83	83
7	96	90	86	83	95	89	86	83	88	85	82	87	84	82	86	84	82	81	81	81	81
8	94	87	83	81	93	87	83	80	86	83	80	85	82	80	84	82	80	79	79	79	79
9	91	85	81	78	91	85	81	78	84	80	78	83	80	78	82	80	78	77	77	77	77
10	89	83	79	76	88	82	79	76	82	78	76	81	78	76	81	78	76	75	75	75	75

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	721558
5°	650983
10°	365368
15°	185724
20°	78635
25°	36299
30°	19215
35°	10351
40°	5534
45°	3276
50°	1904
55°	1010
60°	634
65°	465
70°	192
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3276 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	470.2	40.5
10°-20°	463.0	39.9
20°-30°	151.3	13.0
30°-40°	51.5	4.4
40°-50°	17.3	1.5
50°-60°	5.2	0.4
60°-70°	1.8	0.2
70°-80°	0.1	0.0
80°-90°	0.0	0.0
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°	1084.4	93.5
0°-40°	1135.9	97.9
0°-60°	1158.5	99.8
0°-90°	1160.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1160.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6604	
5°	5935	470
15°	1642	463
25°	301	151
35°	78	51
45°	21	17
55°	5	5
65°	2	2
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	6604.0
0.5°	6604.0
1°	6595.8
1.5°	6579.3
2°	6549.3
2.5°	6509.3
3°	6452.9
3.5°	6374.1
4°	6257.0
4.5°	6114.7
5°	5935.4
5.5°	5699.6
6°	5457.9
6.5°	5180.9
7°	4909.8
7.5°	4592.2
8°	4308.8
8.5°	4023.6
9°	3760.1
9.5°	3518.4
10°	3293.2
12.5°	2364.6
15°	1641.9
17.5°	1072.6
20°	676.3
22.5°	438.1
25°	301.1
27.5°	211.7
30°	152.3
32.5°	109.4
35°	77.6
37.5°	54.1
40°	38.8
42.5°	28.2
45°	21.2
47.5°	16.5
50°	11.2
52.5°	7.1
55°	5.3
57.5°	4.1
60°	2.9
62.5°	2.4
65°	1.8



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CANDELA DISTRIBUTION (continued):

	0°
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

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

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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Scaled Data Report





— 0°-180°

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67.5°		1.2
70°		0.6

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(END OF REPORT)