

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: P743014

Luminaire Tested: LD4D15D010-EU4DR2015309050-4LBCSSQMB

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P743014
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-EU4DR2015309050-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 20° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1425.8 lumens
Efficiency: N/A
Efficacy: 90.2 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

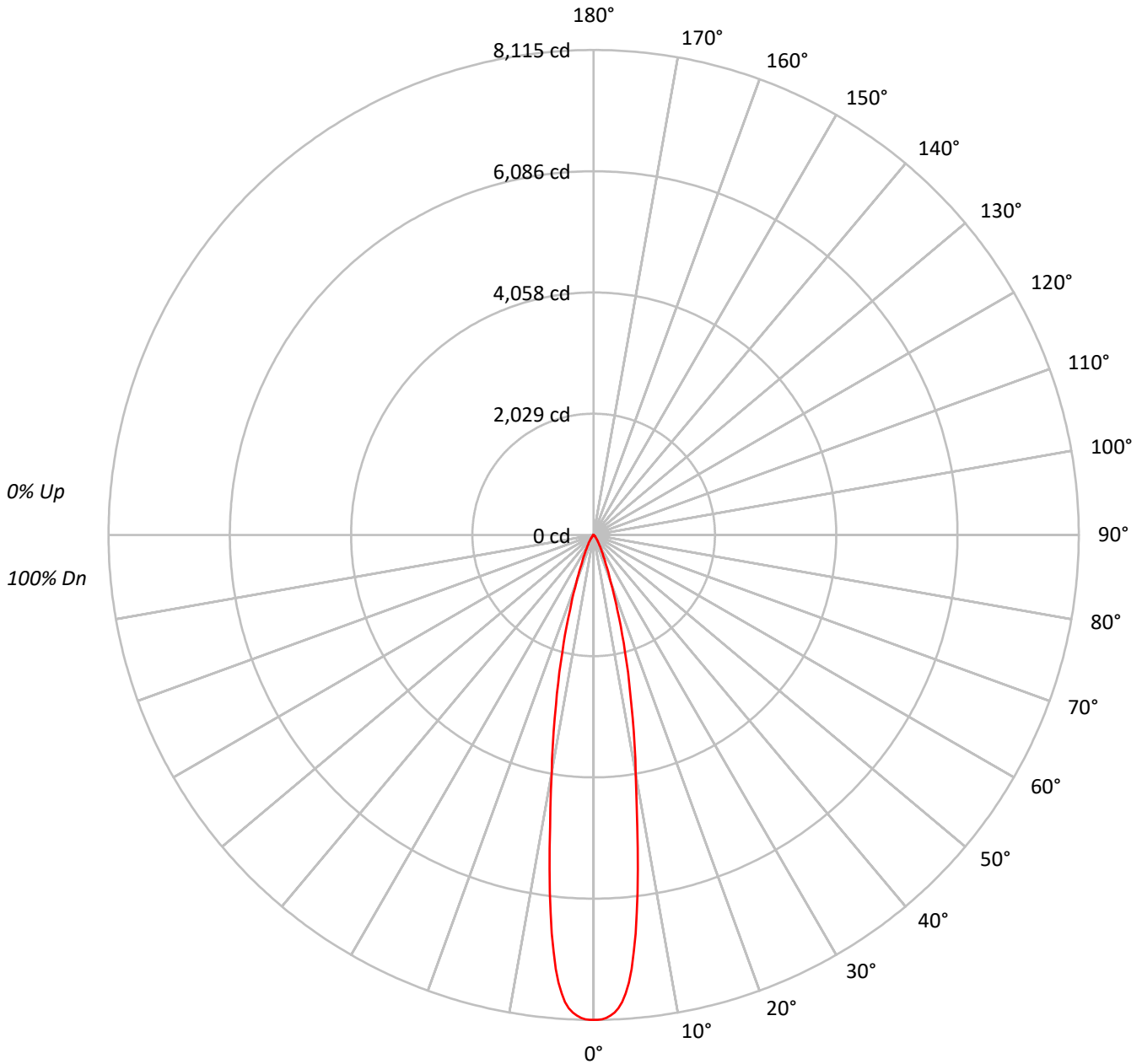


Downlight



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	115	113	111	109	113	111	109	108	107	106	104	103	102	101	100	99	98	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	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	98	96	95	94	94	94	94													
4	105	99	96	93	103	98	95	92	96	93	91	95	92	90	93	91	89	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	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	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	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	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	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	81	78	76	75	75	75	75													

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	886673
5°	799948
10°	448977
15°	228221
20°	96623
25°	44606
30°	23618
35°	12725
40°	6803
45°	4017
50°	2329
55°	1238
60°	787
65°	569
70°	224
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4017 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	577.8	40.5
10°-20°	568.9	39.9
20°-30°	185.9	13.0
30°-40°	63.3	4.4
40°-50°	21.3	1.5
50°-60°	6.4	0.5
60°-70°	2.1	0.1
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°	1332.6	93.5
0°-40°	1395.9	97.9
0°-60°	1423.6	99.8
0°-90°	1425.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1425.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8115	
5°	7294	578
15°	2018	569
25°	370	186
35°	95	63
45°	26	21
55°	6	6
65°	2	2
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	8115.2
0.5°	8115.2
1°	8105.1
1.5°	8084.9
2°	8048.0
2.5°	7998.9
3°	7929.5
3.5°	7832.7
4°	7688.9
4.5°	7514.0
5°	7293.6
5.5°	7003.8
6°	6706.8
6.5°	6366.4
7°	6033.3
7.5°	5643.1
8°	5294.8
8.5°	4944.3
9°	4620.5
9.5°	4323.5
10°	4046.8
12.5°	2905.7
15°	2017.6
17.5°	1318.1
20°	831.0
22.5°	538.4
25°	370.0
27.5°	260.1
30°	187.2
32.5°	134.4
35°	95.4
37.5°	66.5
40°	47.7
42.5°	34.7
45°	26.0
47.5°	20.2
50°	13.7
52.5°	8.7
55°	6.5
57.5°	5.1
60°	3.6
62.5°	2.9
65°	2.2



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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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— 0°-180°

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67.5°		1.4
70°		0.7

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(END OF REPORT)