

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: P743963

Luminaire Tested: LD4D20D010-EU4DR2015309030-4LBCSSQMB

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P743963
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: LD4D20D010-EU4DR2015309030-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 20° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1826.2 lumens
Efficiency: N/A
Efficacy: 79.1 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): 23.1
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

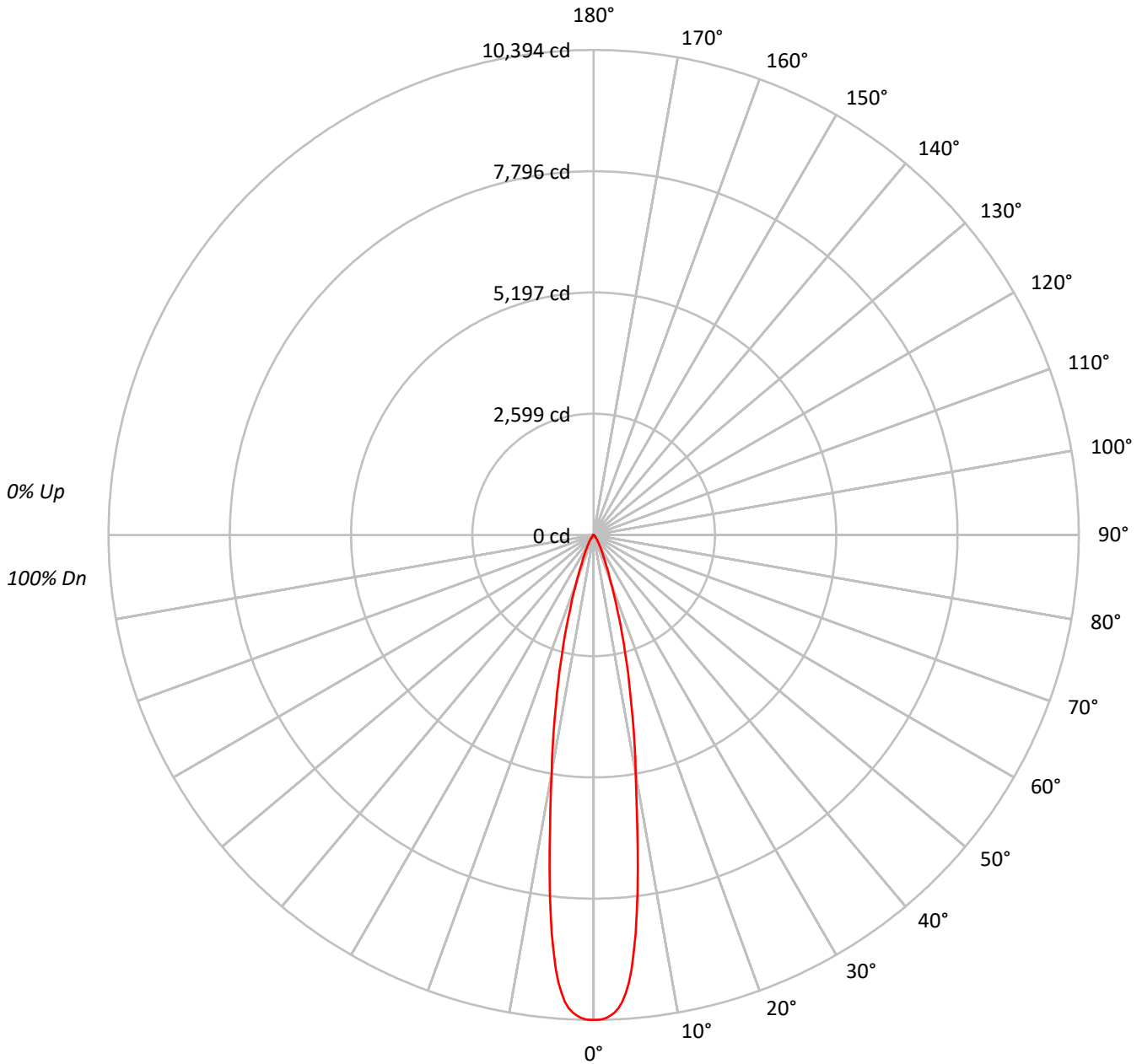


Downlight



TEST NUMBER: P743963
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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			100																
1	115	113	111	109	113	111	109	108	107	106	104	103	102	101	100	99	98	97	97	98	97																
2	111	108	105	102	109	106	104	101	103	101	99	100	99	97	98	96	95	94	94	98	94																
3	108	103	100	97	106	102	99	96	100	97	95	97	95	93	95	93	92	91	91	98	91																
4	105	99	96	93	103	98	95	92	96	93	91	95	92	90	93	91	89	88	88	93	89																
5	102	96	92	89	100	95	91	89	94	90	88	92	89	87	91	88	86	85	85	91	88																
6	99	93	89	86	98	92	88	86	91	87	85	90	87	84	88	86	84	83	83	88	86																
7	96	90	86	83	95	89	86	83	88	85	82	87	84	82	86	84	82	81	81	86	84																
8	94	87	83	81	93	87	83	80	86	83	80	85	82	80	84	82	80	79	79	84	82																
9	91	85	81	78	91	85	81	78	84	80	78	83	80	78	82	80	78	77	77	82	80																
10	89	83	79	76	88	82	79	76	82	78	76	81	78	76	81	78	76	75	75	81	78																

AVERAGE LUMINANCE (cd/sqm):

0°	
0°	1135689
5°	1024602
10°	575068
15°	292312
20°	123761
25°	57131
30°	30241
35°	16299
40°	8715
45°	5145
50°	2992
55°	1581
60°	1005
65°	724
70°	288
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5145 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	740.1	40.5
10°-20°	728.7	39.9
20°-30°	238.1	13.0
30°-40°	81.1	4.4
40°-50°	27.2	1.5
50°-60°	8.2	0.4
60°-70°	2.7	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°	1706.8	93.5
0°-40°	1787.9	97.9
0°-60°	1823.4	99.8
0°-90°	1826.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1826.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10394	
5°	9342	740
15°	2584	729
25°	474	238
35°	122	81
45°	33	27
55°	8	8
65°	3	3
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	10394.3
0.5°	10394.3
1°	10381.3
1.5°	10355.4
2°	10308.2
2.5°	10245.3
3°	10156.4
3.5°	10032.4
4°	9848.2
4.5°	9624.2
5°	9341.9
5.5°	8970.8
6°	8590.3
6.5°	8154.4
7°	7727.7
7.5°	7227.9
8°	6781.8
8.5°	6332.8
9°	5918.2
9.5°	5537.8
10°	5183.3
12.5°	3721.8
15°	2584.2
17.5°	1688.3
20°	1064.4
22.5°	689.6
25°	473.9
27.5°	333.2
30°	239.7
32.5°	172.2
35°	122.2
37.5°	85.2
40°	61.1
42.5°	44.4
45°	33.3
47.5°	25.9
50°	17.6
52.5°	11.1
55°	8.3
57.5°	6.5
60°	4.6
62.5°	3.7
65°	2.8



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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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— 0°-180°

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67.5°		1.9
70°		0.9

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(END OF REPORT)