

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: P738821

Luminaire Tested: LD4D02D010-EU4DR150210IC9024-4LBCSSQMB

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P738821
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: LD4D02D010-EU4DR150210IC9024-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 281.2 lumens
Efficiency: N/A
Efficacy: 55.1 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): 5.1
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



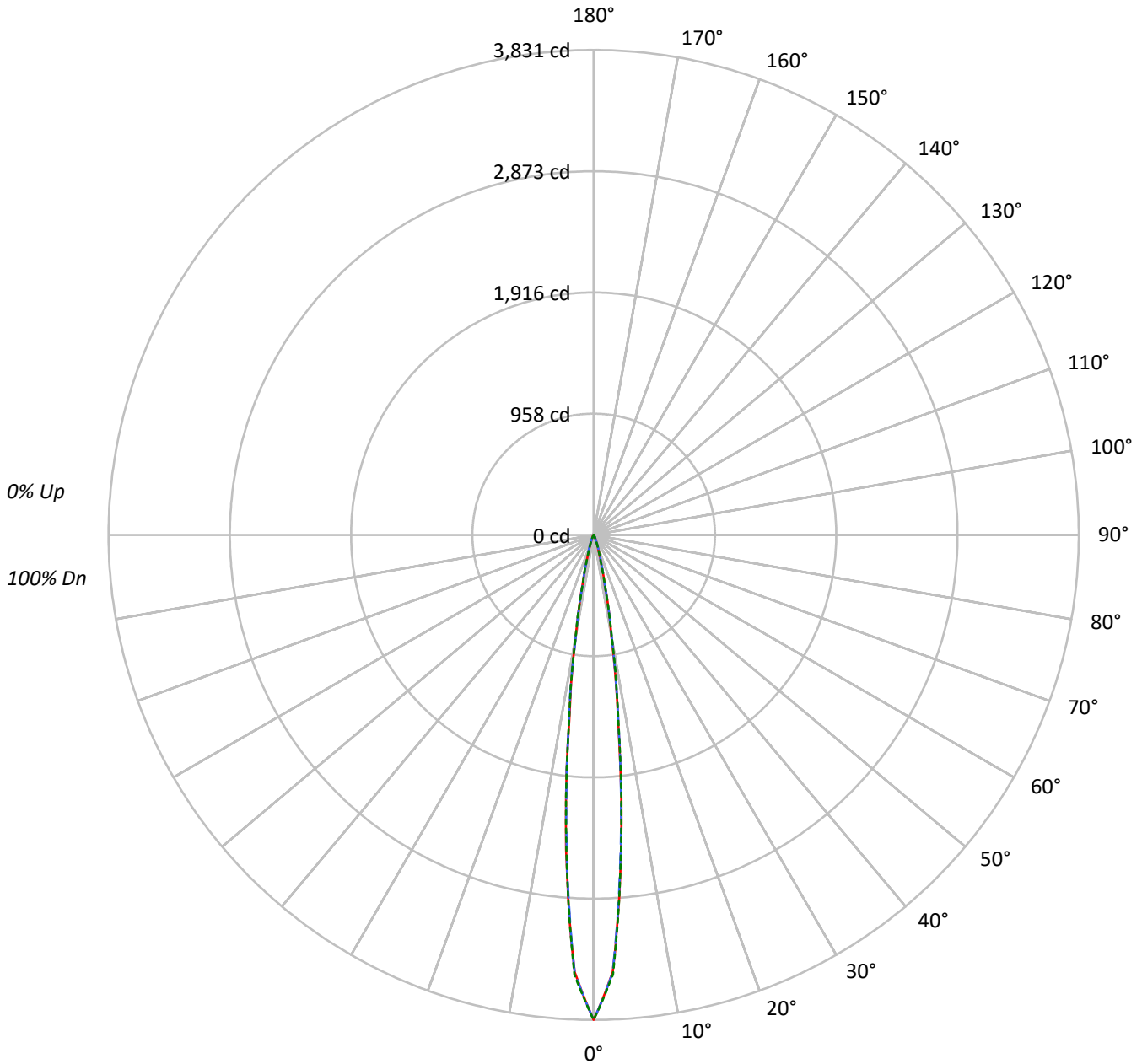
Downlight



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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	98	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°	431064	431064	431064
5°	253310	250038	252009
10°	75598	76130	77296
15°	18805	19169	18579
20°	5629	6513	5744
25°	1986	2524	2010
30°	726	958	741
35°	363	414	356
40°	227	256	227
45°	168	182	168
50°	132	132	132
55°	111	111	111
60°	91	91	91
65°	71	71	71
70°	59	59	59
75°	38	38	45
80°	24	24	24
85°	17	17	17

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 182 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.4	64.9
10°-20°	75.0	26.7
20°-30°	14.9	5.3
30°-40°	3.7	1.3
40°-50°	1.9	0.7
50°-60°	1.5	0.5
60°-70°	1.0	0.4
70°-80°	0.6	0.2
80°-90°	0.2	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
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0°-30°	272.3	96.8
0°-40°	276.0	98.2
0°-60°	279.4	99.4
0°-90°	281.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	281.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3831	3831	3831	3831	3831	
5°	2492	2467	2460	2477	2480	182
15°	216	221	221	217	214	74
25°	26	29	32	29	26	13
35°	5	5	6	5	5	3
45°	2	2	3	2	2	2
55°	2	2	2	2	2	1
65°	1	1	1	1	1	1
75°	0	0	0	0	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°	3831.0	3831.0	3831.0	3831.0	3831.0
2.5°	3455.7	3458.6	3459.8	3463.2	3475.8
5°	2492.5	2466.9	2460.3	2477.3	2479.7
7.5°	1476.5	1481.7	1500.6	1504.9	1489.6
10°	810.2	816.9	815.9	821.8	828.4
12.5°	414.4	409.2	407.6	414.2	405.0
15°	216.5	220.6	220.7	216.8	213.9
17.5°	116.4	121.1	128.9	122.6	112.9
20°	68.8	73.0	79.6	74.4	70.2
22.5°	42.5	45.9	50.6	46.5	43.1
25°	25.5	28.9	32.4	28.7	25.8
27.5°	15.1	18.0	20.3	17.8	14.9
30°	9.7	11.4	12.8	11.2	9.9
32.5°	6.8	7.5	8.1	7.5	6.8
35°	5.0	5.4	5.7	5.4	4.9
37.5°	3.9	4.2	4.4	4.1	3.7
40°	3.2	3.4	3.6	3.4	3.2
42.5°	2.8	2.9	2.9	2.9	2.8
45°	2.4	2.4	2.6	2.4	2.4
47.5°	2.1	2.1	2.3	2.1	2.1
50°	1.9	1.9	1.9	1.9	1.9
52.5°	1.8	1.8	1.8	1.8	1.8
55°	1.6	1.6	1.6	1.6	1.6
57.5°	1.5	1.5	1.5	1.5	1.5
60°	1.3	1.3	1.3	1.3	1.3
62.5°	1.1	1.1	1.1	1.1	1.1
65°	1.0	1.0	1.0	1.0	1.0
67.5°	1.0	1.0	1.0	1.0	1.0
70°	0.8	0.8	0.8	0.8	0.8
72.5°	0.6	0.6	0.6	0.6	0.6
75°	0.5	0.5	0.5	0.5	0.6
77.5°	0.5	0.5	0.5	0.5	0.5
80°	0.3	0.3	0.3	0.3	0.3
82.5°	0.3	0.3	0.3	0.3	0.3
85°	0.2	0.2	0.2	0.2	0.2
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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