

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: P741863

Luminaire Tested: LD4D10D010-EU4DR150210IC9024-4LBCSSQMB

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P741863
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-EU4DR150210IC9024-4LBCSSQMB
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: 806.3 lumens
Efficiency: N/A
Efficacy: 68.9 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 (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



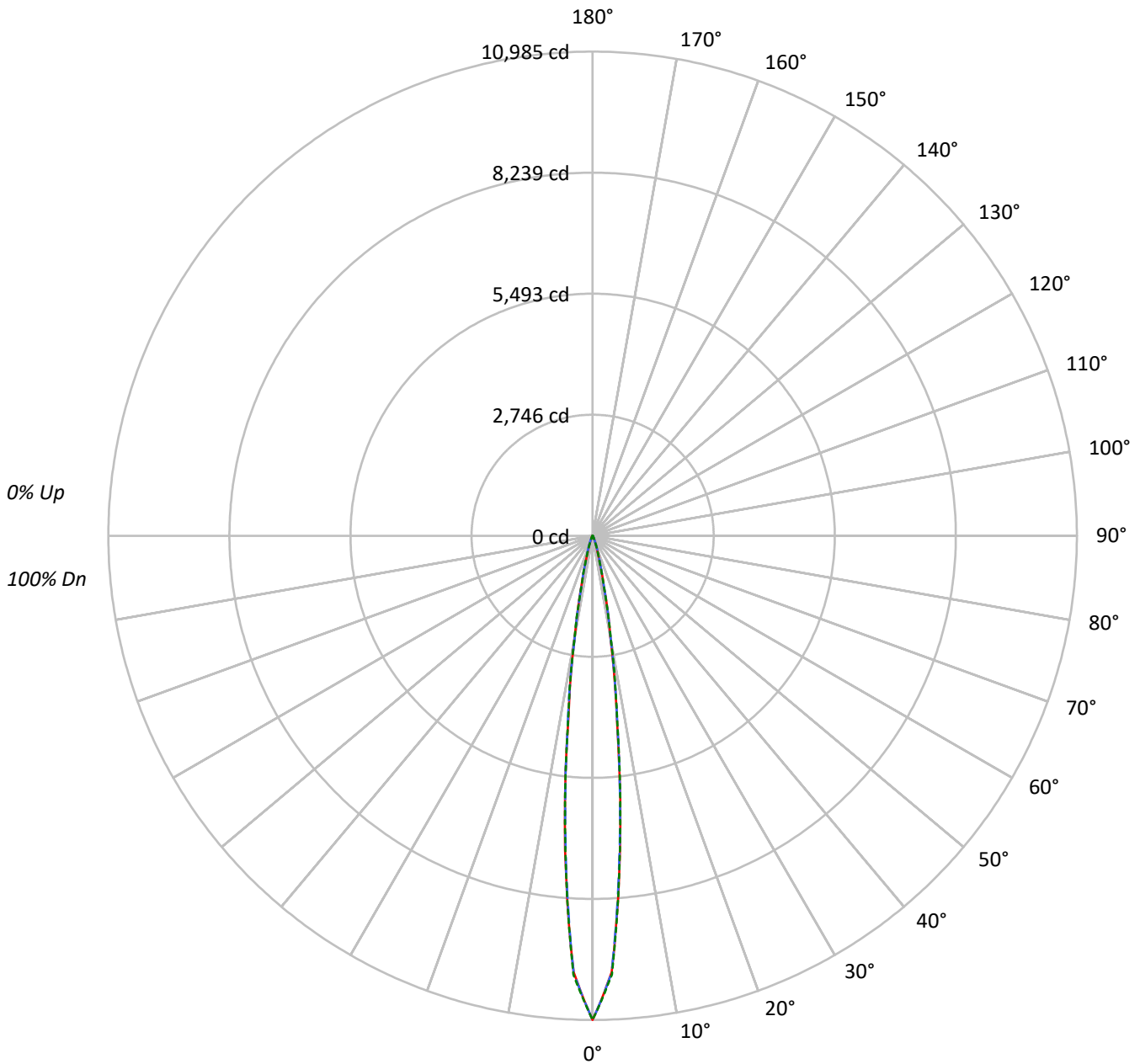
Downlight



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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	87	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°	1236077	1236077	1236077
5°	726382	716972	722642
10°	216791	218312	221652
15°	53921	54972	53278
20°	16135	18680	16479
25°	5687	7245	5757
30°	2089	2748	2127
35°	1046	1184	1017
40°	660	724	660
45°	490	518	490
50°	389	389	389
55°	327	327	327
60°	260	260	260
65°	200	200	200
70°	168	168	168
75°	106	106	144
80°	71	71	71
85°	42	42	42

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 518 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	522.9	64.9
10°-20°	215.1	26.7
20°-30°	42.7	5.3
30°-40°	10.7	1.3
40°-50°	5.6	0.7
50°-60°	4.2	0.5
60°-70°	2.9	0.4
70°-80°	1.7	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°	780.7	96.8
0°-40°	791.4	98.2
0°-60°	801.2	99.4
0°-90°	806.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	806.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10985	10985	10985	10985	10985	
5°	7147	7074	7055	7104	7111	522
15°	621	632	633	622	613	213
25°	73	83	93	82	74	38
35°	14	15	16	15	14	10
45°	7	7	7	7	7	5
55°	5	5	5	5	5	4
65°	3	3	3	3	3	3
75°	1	1	1	1	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°	10985.4	10985.4	10985.4	10985.4	10985.4
2.5°	9909.3	9917.7	9920.9	9930.7	9967.0
5°	7147.4	7073.9	7054.8	7103.7	7110.6
7.5°	4233.8	4248.7	4303.1	4315.2	4271.5
10°	2323.4	2342.5	2339.7	2356.4	2375.5
12.5°	1188.2	1173.3	1168.7	1187.7	1161.2
15°	620.8	632.5	632.9	621.8	613.4
17.5°	333.9	347.4	369.7	351.6	323.7
20°	197.2	209.3	228.3	213.5	201.4
22.5°	121.8	131.6	145.1	133.5	123.7
25°	73.0	82.8	93.0	82.3	73.9
27.5°	43.2	51.6	58.1	51.2	42.8
30°	27.9	32.6	36.7	32.1	28.4
32.5°	19.5	21.4	23.3	21.4	19.5
35°	14.4	15.3	16.3	15.3	14.0
37.5°	11.2	12.1	12.6	11.6	10.7
40°	9.3	9.8	10.2	9.8	9.3
42.5°	7.9	8.4	8.4	8.4	7.9
45°	7.0	7.0	7.4	7.0	7.0
47.5°	6.0	6.0	6.5	6.0	6.0
50°	5.6	5.6	5.6	5.6	5.6
52.5°	5.1	5.1	5.1	5.1	5.1
55°	4.7	4.7	4.7	4.7	4.7
57.5°	4.2	4.2	4.2	4.2	4.2
60°	3.7	3.7	3.7	3.7	3.7
62.5°	3.3	3.3	3.3	3.3	3.3
65°	2.8	2.8	2.8	2.8	2.8
67.5°	2.8	2.8	2.8	2.8	2.8
70°	2.3	2.3	2.3	2.3	2.3
72.5°	1.9	1.9	1.9	1.9	1.9
75°	1.4	1.4	1.4	1.4	1.9
77.5°	1.4	1.4	1.4	1.4	1.4
80°	0.9	0.9	0.9	0.9	0.9
82.5°	0.9	0.9	0.9	0.9	0.9
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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