

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: P738833

Luminaire Tested: LD4D02D010-EU4DR150210IC9024-4LBSQW1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P738833
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-EU4DR150210IC9024-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 278.9 lumens
Efficiency: N/A
Efficacy: 54.7 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



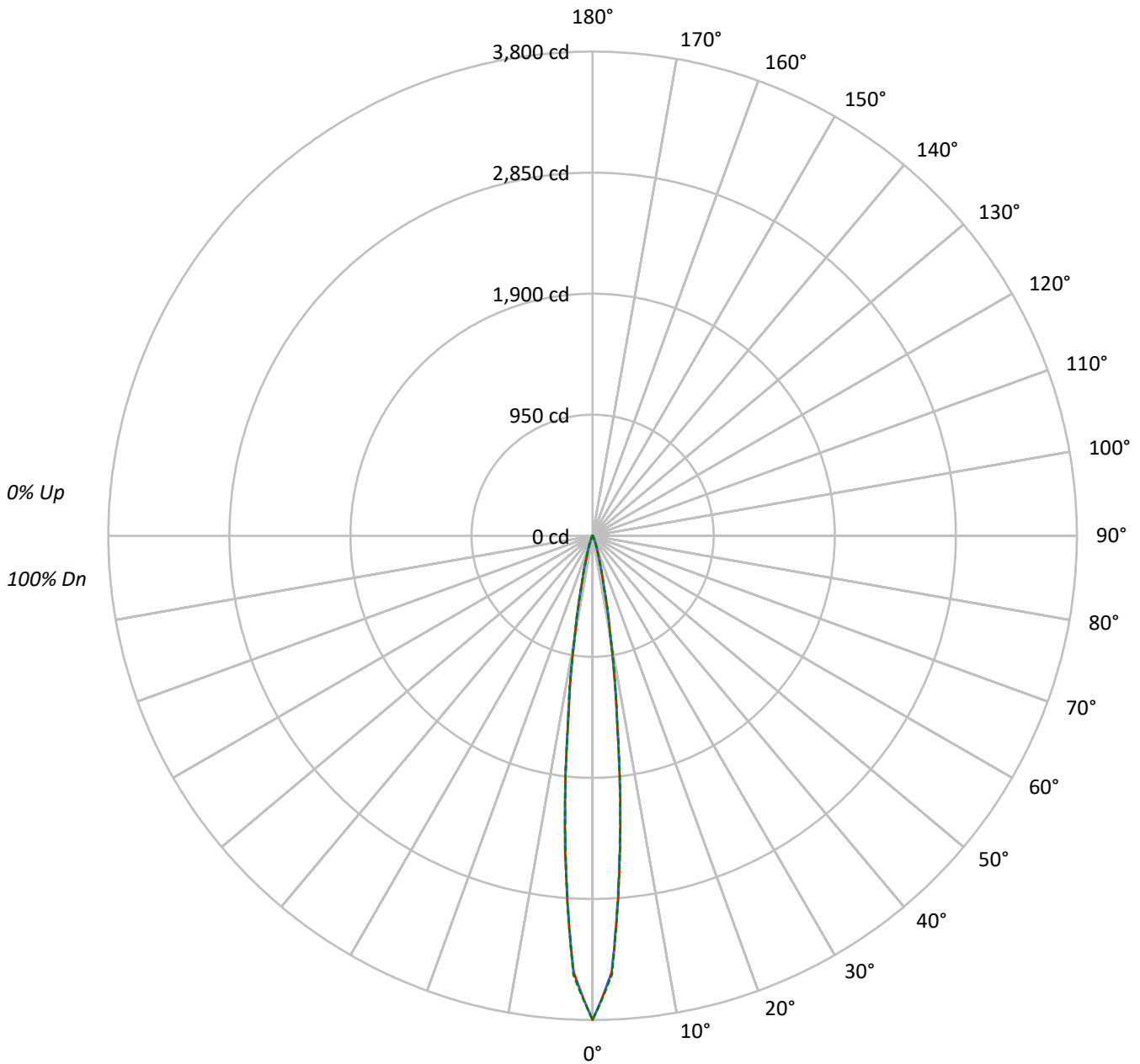
Downlight



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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°	427610	427610	427610
5°	251288	248036	249997
10°	75001	75523	76680
15°	18657	19022	18431
20°	5580	6464	5703
25°	1971	2508	1994
30°	726	951	734
35°	363	407	349
40°	227	249	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°	180.9	64.9
10°-20°	74.4	26.7
20°-30°	14.8	5.3
30°-40°	3.7	1.3
40°-50°	1.9	0.7
50°-60°	1.4	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
0°-30°	270.1	96.8
0°-40°	273.8	98.2
0°-60°	277.2	99.4
0°-90°	278.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	278.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3800	3800	3800	3800	3800	
5°	2473	2447	2441	2458	2460	181
15°	215	219	219	215	212	74
25°	25	29	32	28	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°	3800.3	3800.3	3800.3	3800.3	3800.3
2.5°	3428.0	3430.9	3432.1	3435.4	3448.0
5°	2472.6	2447.2	2440.6	2457.5	2459.9
7.5°	1464.7	1469.8	1488.6	1492.8	1477.7
10°	803.8	810.4	809.4	815.2	821.8
12.5°	411.1	405.9	404.3	410.9	401.7
15°	214.8	218.8	219.0	215.1	212.2
17.5°	115.5	120.2	127.9	121.6	112.0
20°	68.2	72.4	79.0	73.8	69.7
22.5°	42.2	45.5	50.2	46.2	42.8
25°	25.3	28.6	32.2	28.5	25.6
27.5°	15.0	17.9	20.1	17.7	14.8
30°	9.7	11.3	12.7	11.1	9.8
32.5°	6.8	7.4	8.0	7.4	6.8
35°	5.0	5.3	5.6	5.3	4.8
37.5°	3.9	4.2	4.3	4.0	3.7
40°	3.2	3.4	3.5	3.4	3.2
42.5°	2.7	2.9	2.9	2.9	2.7
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°	1.4	1.4	1.4	1.4	1.4
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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