

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: P740861

Luminaire Tested: LD4D08D010-EU4DR150210IC9024-4LBSQW1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P740861
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: LD4D08D010-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: 598.3 lumens
Efficiency: N/A
Efficacy: 67.2 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): 8.9
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

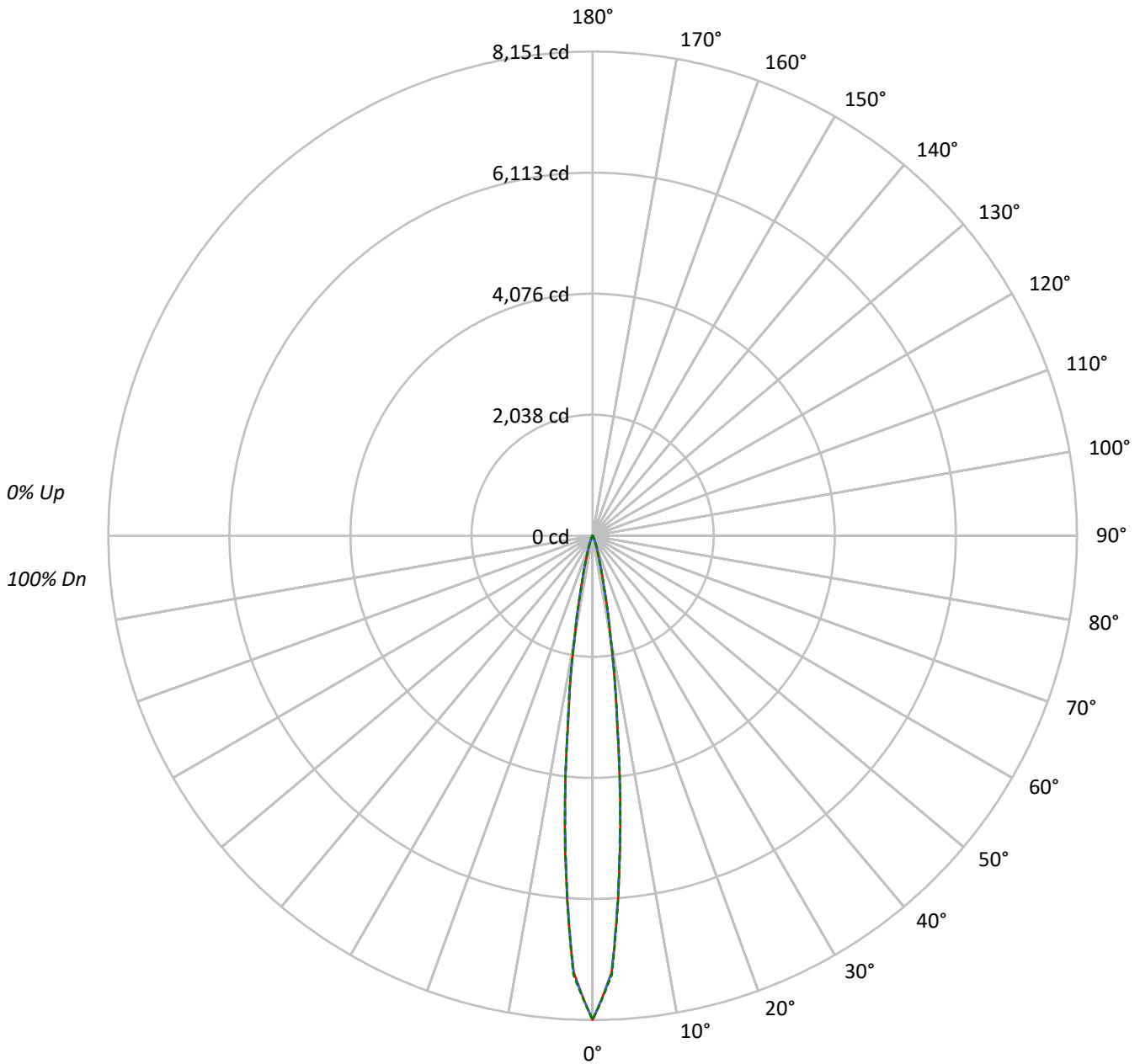


Downlight



TEST NUMBER: P740861
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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°	917195	917195	917195
5°	538989	532007	536214
10°	160862	161991	164473
15°	40015	40797	39537
20°	11971	13861	12224
25°	4222	5375	4277
30°	1550	2044	1573
35°	777	879	755
40°	490	540	490
45°	364	385	364
50°	285	285	285
55°	244	244	244
60°	197	197	197
65°	150	150	150
70°	124	124	124
75°	76	76	106
80°	55	55	55
85°	25	25	25

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 385 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	388.0	64.9
10°-20°	159.6	26.7
20°-30°	31.7	5.3
30°-40°	7.9	1.3
40°-50°	4.2	0.7
50°-60°	3.1	0.5
60°-70°	2.2	0.4
70°-80°	1.2	0.2
80°-90°	0.4	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°	579.3	96.8
0°-40°	587.3	98.2
0°-60°	594.5	99.4
0°-90°	598.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	598.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8151	8151	8151	8151	8151	
5°	5304	5249	5235	5271	5276	387
15°	461	469	470	461	455	158
25°	54	61	69	61	55	28
35°	11	11	12	11	10	7
45°	5	5	6	5	5	4
55°	4	4	4	4	4	3
65°	2	2	2	2	2	2
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8151.4	8151.4	8151.4	8151.4	8151.4
2.5°	7352.9	7359.1	7361.5	7368.8	7395.7
5°	5303.5	5249.0	5234.8	5271.1	5276.2
7.5°	3141.6	3152.6	3193.0	3202.0	3169.5
10°	1724.0	1738.2	1736.1	1748.5	1762.7
12.5°	881.7	870.6	867.2	881.3	861.7
15°	460.7	469.3	469.7	461.4	455.2
17.5°	247.8	257.8	274.3	260.9	240.2
20°	146.3	155.3	169.4	158.4	149.4
22.5°	90.4	97.7	107.7	99.0	91.8
25°	54.2	61.4	69.0	61.1	54.9
27.5°	32.1	38.3	43.1	38.0	31.7
30°	20.7	24.2	27.3	23.8	21.0
32.5°	14.5	15.9	17.3	15.9	14.5
35°	10.7	11.4	12.1	11.4	10.4
37.5°	8.3	9.0	9.3	8.6	7.9
40°	6.9	7.2	7.6	7.2	6.9
42.5°	5.9	6.2	6.2	6.2	5.9
45°	5.2	5.2	5.5	5.2	5.2
47.5°	4.5	4.5	4.8	4.5	4.5
50°	4.1	4.1	4.1	4.1	4.1
52.5°	3.8	3.8	3.8	3.8	3.8
55°	3.5	3.5	3.5	3.5	3.5
57.5°	3.1	3.1	3.1	3.1	3.1
60°	2.8	2.8	2.8	2.8	2.8
62.5°	2.4	2.4	2.4	2.4	2.4
65°	2.1	2.1	2.1	2.1	2.1
67.5°	2.1	2.1	2.1	2.1	2.1
70°	1.7	1.7	1.7	1.7	1.7
72.5°	1.4	1.4	1.4	1.4	1.4
75°	1.0	1.0	1.0	1.0	1.4
77.5°	1.0	1.0	1.0	1.0	1.0
80°	0.7	0.7	0.7	0.7	0.7
82.5°	0.7	0.7	0.7	0.7	0.7
85°	0.3	0.3	0.3	0.3	0.3
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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