

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: P740877

Luminaire Tested: LD4D08D010-EU4DR150210IC9030-4LBCSSQMW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P740877
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-EU4DR150210IC9030-4LBCSSQMW
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 711.1 lumens
Efficiency: N/A
Efficacy: 79.9 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): 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



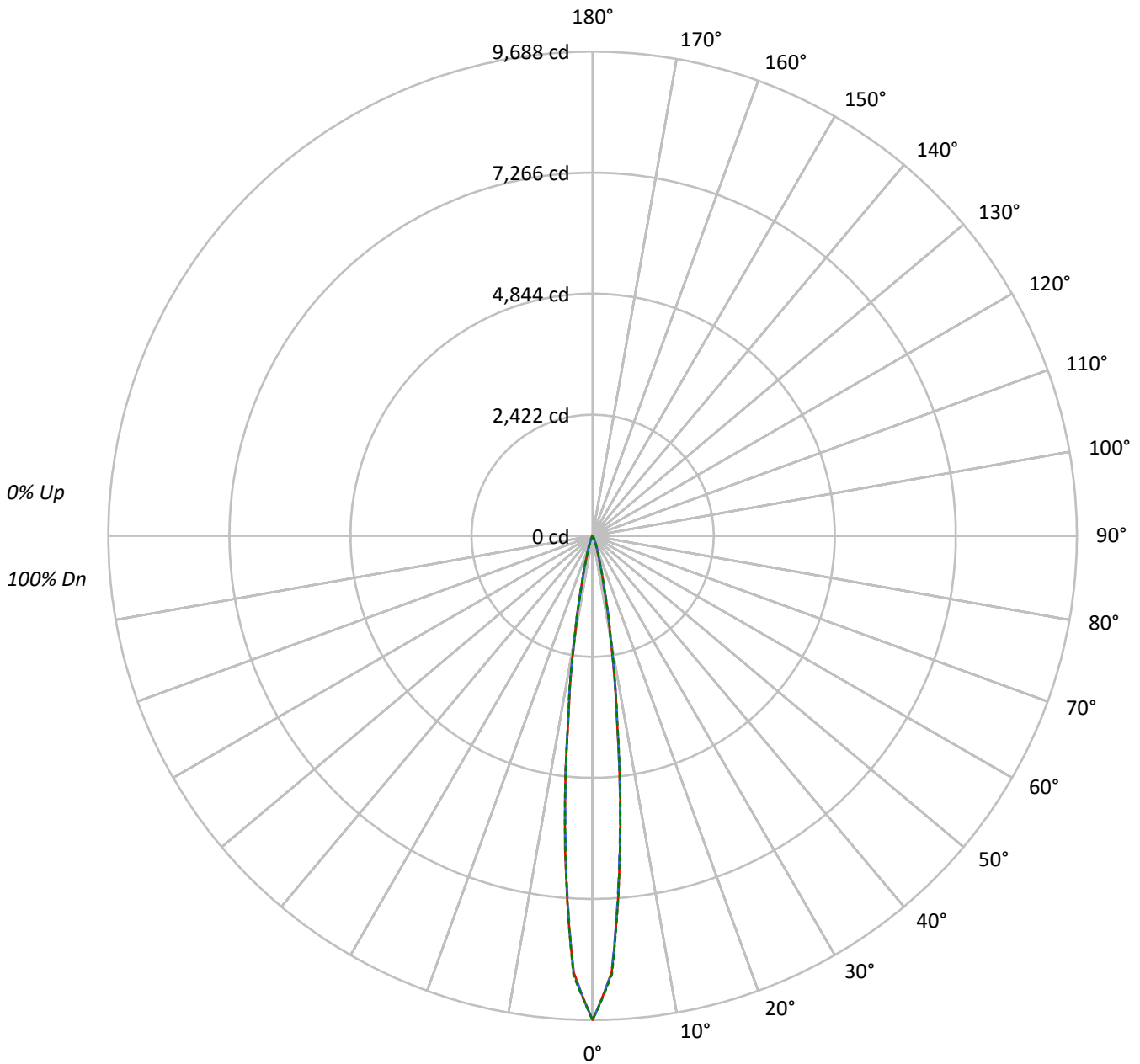
Downlight



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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°	1090116	1090116	1090116
5°	640597	632305	637305
10°	191187	192531	195479
15°	47554	48483	46990
20°	14229	16479	14532
25°	5017	6388	5079
30°	1842	2426	1872
35°	922	1046	893
40°	582	639	582
45°	434	462	434
50°	341	341	341
55°	285	285	285
60°	232	232	232
65°	178	178	178
70°	154	154	154
75°	91	91	121
80°	63	63	63
85°	33	33	33

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 462 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	461.2	64.9
10°-20°	189.7	26.7
20°-30°	37.7	5.3
30°-40°	9.4	1.3
40°-50°	4.9	0.7
50°-60°	3.7	0.5
60°-70°	2.6	0.4
70°-80°	1.5	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
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0°-30°	688.6	96.8
0°-40°	698.0	98.2
0°-60°	706.6	99.4
0°-90°	711.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	711.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9688	9688	9688	9688	9688	
5°	6303	6238	6222	6265	6271	460
15°	548	558	558	548	541	188
25°	64	73	82	73	65	34
35°	13	14	14	14	12	9
45°	6	6	7	6	6	5
55°	4	4	4	4	4	4
65°	2	2	2	2	2	3
75°	1	1	1	1	2	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°	9688.2	9688.2	9688.2	9688.2	9688.2
2.5°	8739.1	8746.5	8749.4	8758.0	8790.0
5°	6303.3	6238.5	6221.7	6264.8	6270.9
7.5°	3733.9	3747.0	3795.0	3805.6	3767.1
10°	2049.0	2065.8	2063.4	2078.1	2095.0
12.5°	1047.9	1034.8	1030.7	1047.5	1024.1
15°	547.5	557.8	558.2	548.3	541.0
17.5°	294.5	306.4	326.1	310.1	285.5
20°	173.9	184.6	201.4	188.3	177.6
22.5°	107.5	116.1	128.0	117.7	109.1
25°	64.4	73.0	82.0	72.6	65.2
27.5°	38.1	45.5	51.3	45.1	37.7
30°	24.6	28.7	32.4	28.3	25.0
32.5°	17.2	18.9	20.5	18.9	17.2
35°	12.7	13.5	14.4	13.5	12.3
37.5°	9.8	10.7	11.1	10.3	9.4
40°	8.2	8.6	9.0	8.6	8.2
42.5°	7.0	7.4	7.4	7.4	7.0
45°	6.2	6.2	6.6	6.2	6.2
47.5°	5.3	5.3	5.7	5.3	5.3
50°	4.9	4.9	4.9	4.9	4.9
52.5°	4.5	4.5	4.5	4.5	4.5
55°	4.1	4.1	4.1	4.1	4.1
57.5°	3.7	3.7	3.7	3.7	3.7
60°	3.3	3.3	3.3	3.3	3.3
62.5°	2.9	2.9	2.9	2.9	2.9
65°	2.5	2.5	2.5	2.5	2.5
67.5°	2.5	2.5	2.5	2.5	2.5
70°	2.1	2.1	2.1	2.1	2.1
72.5°	1.6	1.6	1.6	1.6	1.6
75°	1.2	1.2	1.2	1.2	1.6
77.5°	1.2	1.2	1.2	1.2	1.2
80°	0.8	0.8	0.8	0.8	0.8
82.5°	0.8	0.8	0.8	0.8	0.8
85°	0.4	0.4	0.4	0.4	0.4
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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