

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: P740864

Luminaire Tested: LD4D08D010-EU4DR150210IC9027-4LBCSSQMW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P740864
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-EU4DR150210IC9027-4LBCSSQMW
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 688.7 lumens
Efficiency: N/A
Efficacy: 77.4 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



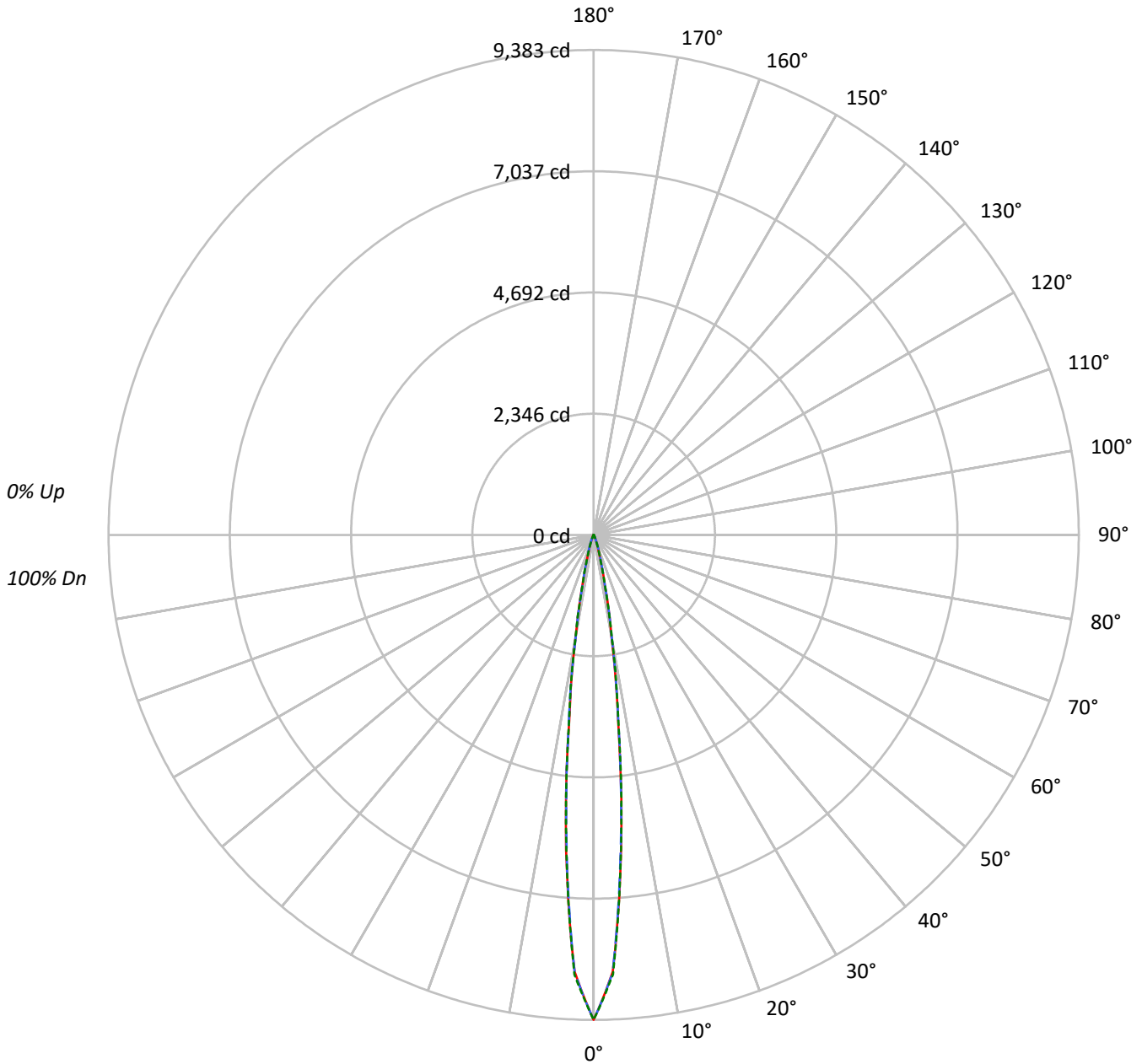
Downlight



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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	50	30	10	0													
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						100													
1	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98						98													
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	98	98	96						96													
3	110	106	103	101	108	105	102	100	103	100	99	100	99	97	98	97	96	94						94													
4	108	103	100	98	106	102	99	97	100	98	96	99	97	95	97	95	94	93						93													
5	106	101	98	95	104	100	97	95	98	96	94	97	95	93	96	94	92	92						92													
6	104	99	95	93	102	98	95	93	97	94	92	96	93	92	95	93	91	90						90													
7	102	97	93	91	101	96	93	91	95	93	91	94	92	90	93	91	90	89						89													
8	100	95	92	90	99	95	92	90	94	91	89	93	91	89	92	90	89	88						88													
9	99	93	90	88	98	93	90	88	92	90	88	92	89	88	91	89	87	87						87													
10	97	92	89	87	96	92	89	87	91	89	87	91	88	87	90	88	86	86						86													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1055741	1055741	1055741
5°	620404	612365	617213
10°	185160	186457	189312
15°	46060	46955	45504
20°	13779	15955	14074
25°	4861	6185	4923
30°	1782	2351	1812
35°	893	1009	864
40°	561	618	561
45°	420	448	420
50°	334	334	334
55°	278	278	278
60°	225	225	225
65°	171	171	171
70°	146	146	146
75°	91	91	121
80°	63	63	63
85°	33	33	33

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 448 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	446.6	64.9
10°-20°	183.7	26.7
20°-30°	36.5	5.3
30°-40°	9.1	1.3
40°-50°	4.8	0.7
50°-60°	3.6	0.5
60°-70°	2.5	0.4
70°-80°	1.4	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°	666.8	96.8
0°-40°	675.9	98.1
0°-60°	684.3	99.4
0°-90°	688.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	688.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9383	9383	9383	9383	9383	
5°	6105	6042	6026	6067	6073	446
15°	530	540	541	531	524	182
25°	62	71	79	70	63	33
35°	12	13	14	13	12	8
45°	6	6	6	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°	9382.7	9382.7	9382.7	9382.7	9382.7
2.5°	8463.6	8470.7	8473.5	8481.8	8512.8
5°	6104.6	6041.8	6025.5	6067.3	6073.2
7.5°	3616.1	3628.8	3675.3	3685.6	3648.3
10°	1984.4	2000.7	1998.3	2012.6	2028.9
12.5°	1014.8	1002.1	998.2	1014.5	991.8
15°	530.3	540.2	540.6	531.1	523.9
17.5°	285.2	296.7	315.8	300.3	276.5
20°	168.4	178.7	195.0	182.3	172.0
22.5°	104.1	112.4	123.9	114.0	105.7
25°	62.4	70.7	79.4	70.3	63.2
27.5°	36.9	44.1	49.7	43.7	36.5
30°	23.8	27.8	31.4	27.4	24.2
32.5°	16.7	18.3	19.9	18.3	16.7
35°	12.3	13.1	13.9	13.1	11.9
37.5°	9.5	10.3	10.7	9.9	9.1
40°	7.9	8.3	8.7	8.3	7.9
42.5°	6.8	7.1	7.1	7.1	6.8
45°	6.0	6.0	6.4	6.0	6.0
47.5°	5.2	5.2	5.6	5.2	5.2
50°	4.8	4.8	4.8	4.8	4.8
52.5°	4.4	4.4	4.4	4.4	4.4
55°	4.0	4.0	4.0	4.0	4.0
57.5°	3.6	3.6	3.6	3.6	3.6
60°	3.2	3.2	3.2	3.2	3.2
62.5°	2.8	2.8	2.8	2.8	2.8
65°	2.4	2.4	2.4	2.4	2.4
67.5°	2.4	2.4	2.4	2.4	2.4
70°	2.0	2.0	2.0	2.0	2.0
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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