

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: P739837

Luminaire Tested: LD4D05D010-EU4DR150210IC9024-4LBCSSQMW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P739837
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: LD4D05D010-EU4DR150210IC9024-4LBCSSQMW
Description: 4 INCH SQAURE SHALLOW CAST 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: 527.2 lumens
Efficiency: N/A
Efficacy: 70.3 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): 7.5
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



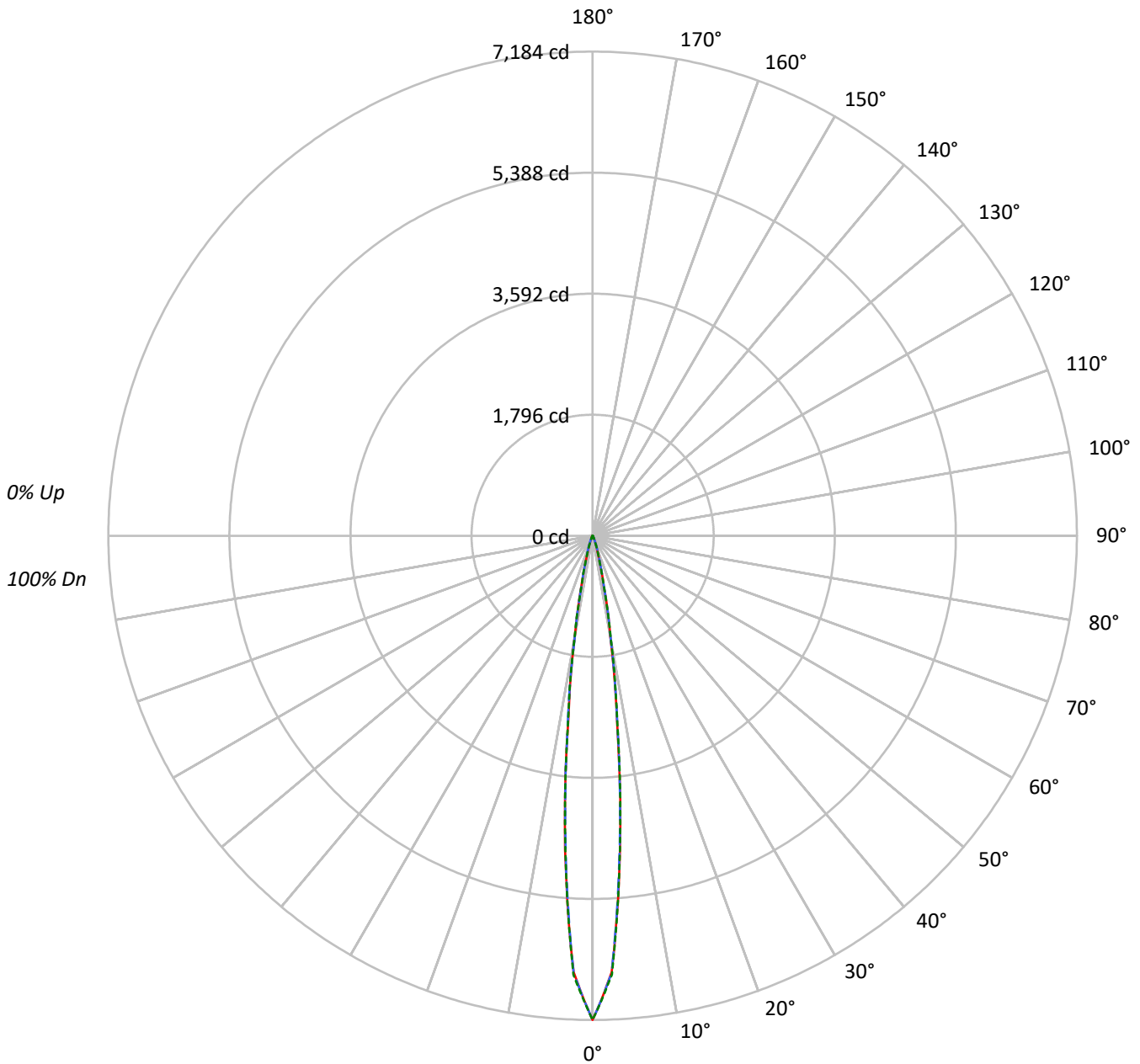
Downlight



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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	99	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	99	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°	808388	808388	808388
5°	475054	468895	472605
10°	141781	142770	144963
15°	35264	35950	34847
20°	10555	12216	10776
25°	3724	4736	3770
30°	1363	1797	1393
35°	683	770	661
40°	433	476	433
45°	322	343	322
50°	250	250	250
55°	209	209	209
60°	169	169	169
65°	128	128	128
70°	110	110	110
75°	68	68	91
80°	47	47	47
85°	25	25	25

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 343 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	342.0	64.9
10°-20°	140.7	26.7
20°-30°	27.9	5.3
30°-40°	7.0	1.3
40°-50°	3.7	0.7
50°-60°	2.7	0.5
60°-70°	1.9	0.4
70°-80°	1.1	0.2
80°-90°	0.3	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°	510.6	96.8
0°-40°	517.6	98.2
0°-60°	523.9	99.4
0°-90°	527.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	527.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7184	7184	7184	7184	7184	
5°	4674	4626	4614	4646	4650	341
15°	406	414	414	407	401	139
25°	48	54	61	54	48	25
35°	9	10	11	10	9	6
45°	5	5	5	5	5	4
55°	3	3	3	3	3	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°	7184.4	7184.4	7184.4	7184.4	7184.4
2.5°	6480.7	6486.1	6488.3	6494.6	6518.4
5°	4674.4	4626.3	4613.8	4645.8	4650.3
7.5°	2768.9	2778.6	2814.2	2822.1	2793.5
10°	1519.5	1532.0	1530.1	1541.1	1553.6
12.5°	777.1	767.3	764.3	776.8	759.4
15°	406.0	413.6	413.9	406.6	401.2
17.5°	218.4	227.2	241.8	229.9	211.7
20°	129.0	136.9	149.3	139.6	131.7
22.5°	79.7	86.1	94.9	87.3	80.9
25°	47.8	54.1	60.8	53.8	48.4
27.5°	28.3	33.8	38.0	33.5	28.0
30°	18.2	21.3	24.0	21.0	18.6
32.5°	12.8	14.0	15.2	14.0	12.8
35°	9.4	10.0	10.6	10.0	9.1
37.5°	7.3	7.9	8.2	7.6	7.0
40°	6.1	6.4	6.7	6.4	6.1
42.5°	5.2	5.5	5.5	5.5	5.2
45°	4.6	4.6	4.9	4.6	4.6
47.5°	4.0	4.0	4.3	4.0	4.0
50°	3.6	3.6	3.6	3.6	3.6
52.5°	3.3	3.3	3.3	3.3	3.3
55°	3.0	3.0	3.0	3.0	3.0
57.5°	2.7	2.7	2.7	2.7	2.7
60°	2.4	2.4	2.4	2.4	2.4
62.5°	2.1	2.1	2.1	2.1	2.1
65°	1.8	1.8	1.8	1.8	1.8
67.5°	1.8	1.8	1.8	1.8	1.8
70°	1.5	1.5	1.5	1.5	1.5
72.5°	1.2	1.2	1.2	1.2	1.2
75°	0.9	0.9	0.9	0.9	1.2
77.5°	0.9	0.9	0.9	0.9	0.9
80°	0.6	0.6	0.6	0.6	0.6
82.5°	0.6	0.6	0.6	0.6	0.6
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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