

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: P739863

Luminaire Tested: LD4D05D010-EU4DR150210IC9030-4LBCSSQMW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P739863
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-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: 604.3 lumens
Efficiency: N/A
Efficacy: 80.6 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



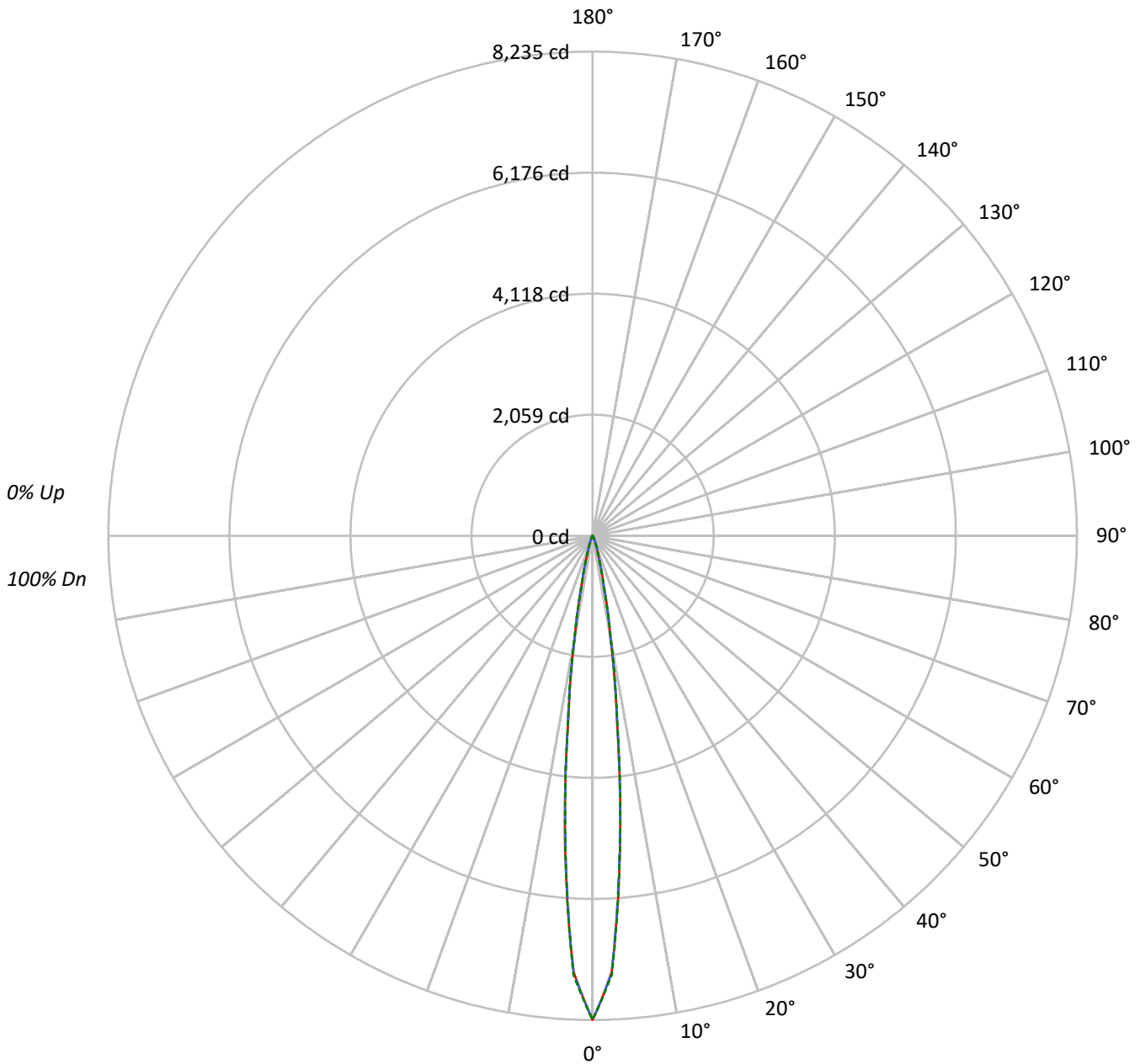
Downlight



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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	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	99	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	99	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	94	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	88	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°	926591	926591	926591
5°	544507	537464	541713
10°	162514	163652	166153
15°	40423	41214	39937
20°	12093	14008	12347
25°	4261	5430	4316
30°	1565	2059	1595
35°	784	886	763
40°	497	547	497
45°	364	392	364
50°	292	292	292
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: 392 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	392.0	64.9
10°-20°	161.2	26.7
20°-30°	32.0	5.3
30°-40°	8.0	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°	585.3	96.8
0°-40°	593.3	98.2
0°-60°	600.6	99.4
0°-90°	604.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	604.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8235	8235	8235	8235	8235	
5°	5358	5303	5288	5325	5330	391
15°	465	474	474	466	460	160
25°	55	62	70	62	55	29
35°	11	12	12	12	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°	8234.9	8234.9	8234.9	8234.9	8234.9
2.5°	7428.3	7434.5	7437.0	7444.3	7471.5
5°	5357.8	5302.8	5288.5	5325.1	5330.3
7.5°	3173.8	3184.9	3225.7	3234.8	3202.0
10°	1741.7	1756.0	1753.9	1766.4	1780.7
12.5°	890.7	879.6	876.1	890.4	870.5
15°	465.4	474.1	474.5	466.1	459.8
17.5°	250.3	260.4	277.1	263.6	242.6
20°	147.8	156.9	171.2	160.0	150.9
22.5°	91.3	98.7	108.8	100.1	92.7
25°	54.7	62.1	69.7	61.7	55.4
27.5°	32.4	38.7	43.6	38.3	32.1
30°	20.9	24.4	27.5	24.1	21.3
32.5°	14.6	16.0	17.4	16.0	14.6
35°	10.8	11.5	12.2	11.5	10.5
37.5°	8.4	9.1	9.4	8.7	8.0
40°	7.0	7.3	7.7	7.3	7.0
42.5°	5.9	6.3	6.3	6.3	5.9
45°	5.2	5.2	5.6	5.2	5.2
47.5°	4.5	4.5	4.9	4.5	4.5
50°	4.2	4.2	4.2	4.2	4.2
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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