

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: P739911

Luminaire Tested: LD4D05D010-EU4DR150210IC9050-4LBSQW1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P739911
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-EU4DR150210IC9050-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 594.6 lumens
Efficiency: N/A
Efficacy: 79.3 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



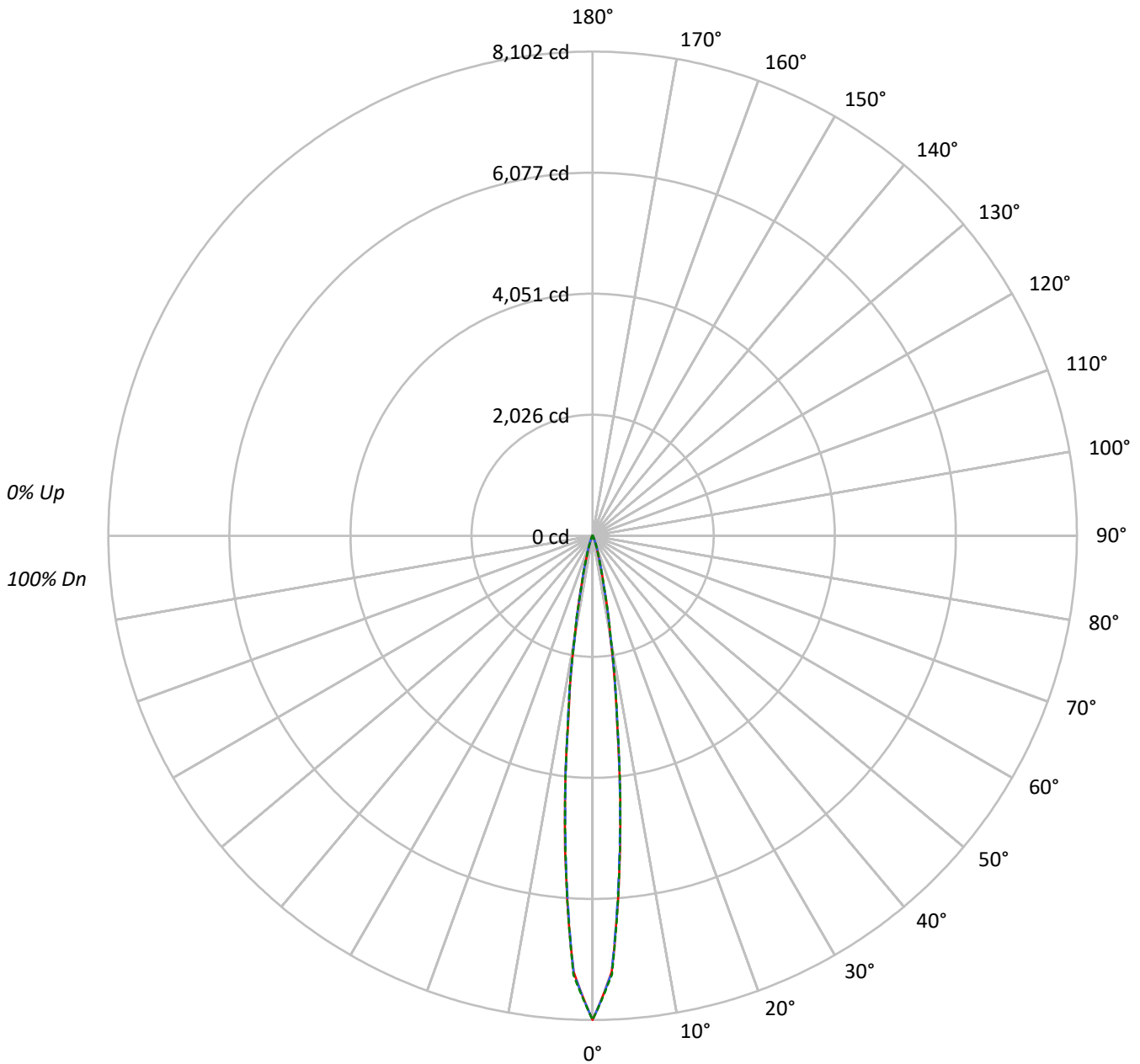
Downlight



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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					70					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°	911614	911614	911614
5°	535706	528765	532952
10°	159883	161002	163466
15°	39772	40545	39294
20°	11897	13779	12151
25°	4191	5344	4246
30°	1543	2029	1565
35°	770	871	748
40°	490	533	490
45°	357	385	357
50°	285	285	285
55°	237	237	237
60°	190	190	190
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°	385.7	64.9
10°-20°	158.6	26.7
20°-30°	31.5	5.3
30°-40°	7.9	1.3
40°-50°	4.1	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°	575.8	96.8
0°-40°	583.7	98.2
0°-60°	590.9	99.4
0°-90°	594.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	594.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8102	8102	8102	8102	8102	
5°	5271	5217	5203	5239	5244	385
15°	458	466	467	459	452	157
25°	54	61	69	61	54	28
35°	11	11	12	11	10	7
45°	5	5	6	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°	8101.8	8101.8	8101.8	8101.8	8101.8
2.5°	7308.1	7314.3	7316.7	7323.9	7350.6
5°	5271.2	5217.0	5202.9	5238.9	5244.1
7.5°	3122.4	3133.4	3173.5	3182.5	3150.2
10°	1713.5	1727.6	1725.5	1737.9	1751.9
12.5°	876.3	865.3	861.9	876.0	856.4
15°	457.9	466.4	466.8	458.6	452.4
17.5°	246.3	256.2	272.7	259.3	238.7
20°	145.4	154.3	168.4	157.4	148.5
22.5°	89.9	97.1	107.0	98.4	91.2
25°	53.8	61.0	68.6	60.7	54.5
27.5°	31.9	38.1	42.9	37.7	31.6
30°	20.6	24.0	27.1	23.7	20.9
32.5°	14.4	15.8	17.1	15.8	14.4
35°	10.6	11.3	12.0	11.3	10.3
37.5°	8.2	8.9	9.3	8.6	7.9
40°	6.9	7.2	7.5	7.2	6.9
42.5°	5.8	6.2	6.2	6.2	5.8
45°	5.1	5.1	5.5	5.1	5.1
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°	3.4	3.4	3.4	3.4	3.4
57.5°	3.1	3.1	3.1	3.1	3.1
60°	2.7	2.7	2.7	2.7	2.7
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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