

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: P739912

Luminaire Tested: LD4D05D010-EU4DR150210IC9050-4LBSQW1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P739912
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-EU4DR150210IC9050-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 624.9 lumens
Efficiency: N/A
Efficacy: 83.3 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



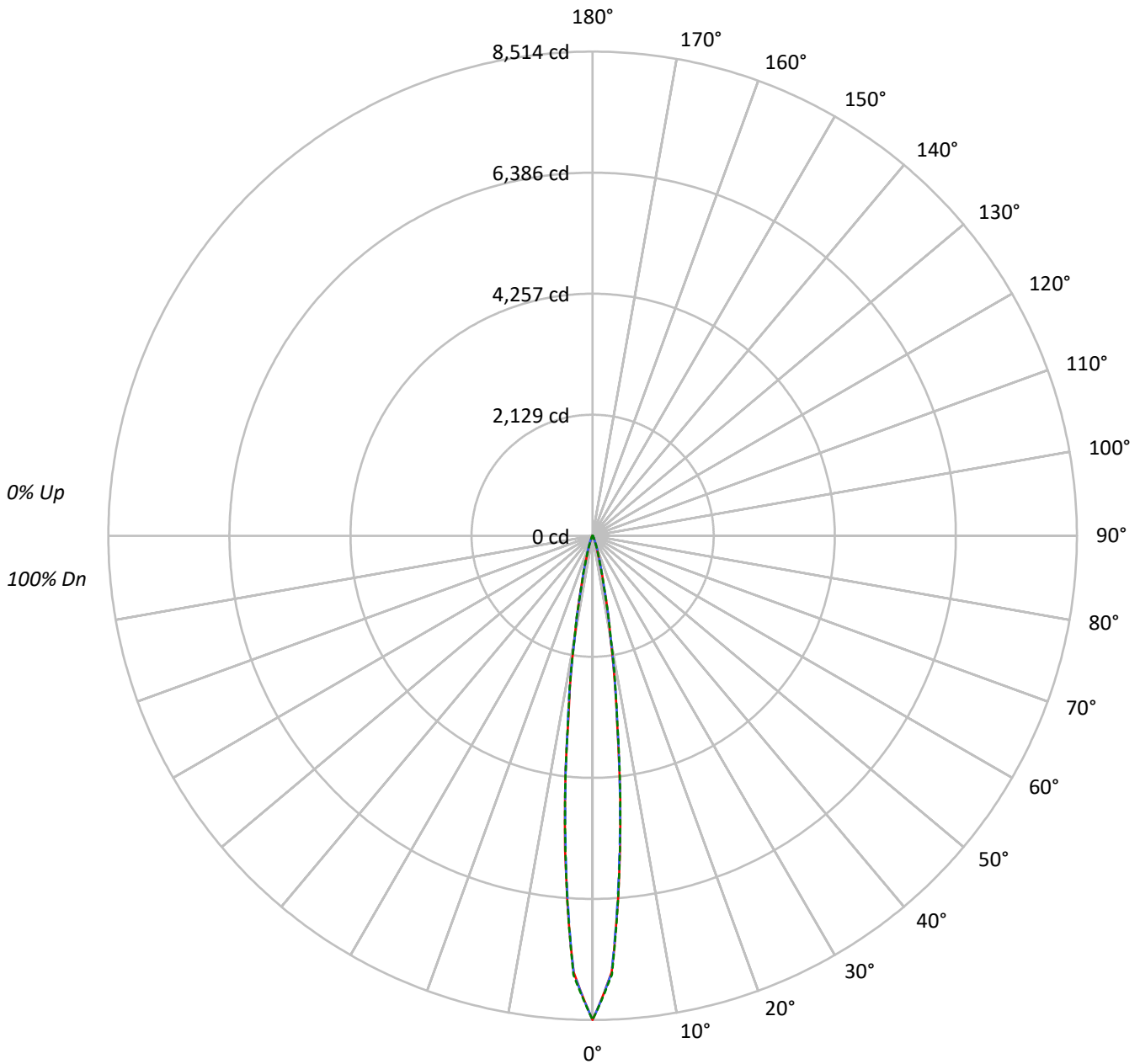
Downlight



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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	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°	958017	958017	958017
5°	562973	555687	560087
10°	168019	169204	171789
15°	41796	42612	41292
20°	12503	14483	12773
25°	4409	5617	4464
30°	1617	2134	1647
35°	813	915	784
40°	511	561	511
45°	378	406	378
50°	299	299	299
55°	251	251	251
60°	204	204	204
65°	157	157	157
70°	132	132	132
75°	83	83	106
80°	55	55	55
85°	33	33	33

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 406 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	405.3	64.9
10°-20°	166.7	26.7
20°-30°	33.1	5.3
30°-40°	8.3	1.3
40°-50°	4.3	0.7
50°-60°	3.2	0.5
60°-70°	2.3	0.4
70°-80°	1.3	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°	605.1	96.8
0°-40°	613.4	98.2
0°-60°	620.9	99.4
0°-90°	624.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	624.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8514	8514	8514	8514	8514	
5°	5540	5483	5468	5506	5511	405
15°	481	490	491	482	475	165
25°	57	64	72	64	57	30
35°	11	12	13	12	11	8
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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8514.2	8514.2	8514.2	8514.2	8514.2
2.5°	7680.2	7686.6	7689.2	7696.7	7724.9
5°	5539.5	5482.6	5467.8	5505.7	5511.1
7.5°	3281.4	3292.9	3335.1	3344.5	3310.6
10°	1800.7	1815.5	1813.4	1826.3	1841.1
12.5°	920.9	909.4	905.8	920.6	900.0
15°	481.2	490.2	490.6	481.9	475.4
17.5°	258.8	269.2	286.5	272.5	250.9
20°	152.8	162.2	177.0	165.4	156.1
22.5°	94.4	102.0	112.5	103.4	95.9
25°	56.6	64.2	72.1	63.8	57.3
27.5°	33.5	40.0	45.1	39.6	33.2
30°	21.6	25.2	28.5	24.9	22.0
32.5°	15.1	16.6	18.0	16.6	15.1
35°	11.2	11.9	12.6	11.9	10.8
37.5°	8.7	9.4	9.7	9.0	8.3
40°	7.2	7.6	7.9	7.6	7.2
42.5°	6.1	6.5	6.5	6.5	6.1
45°	5.4	5.4	5.8	5.4	5.4
47.5°	4.7	4.7	5.0	4.7	4.7
50°	4.3	4.3	4.3	4.3	4.3
52.5°	4.0	4.0	4.0	4.0	4.0
55°	3.6	3.6	3.6	3.6	3.6
57.5°	3.2	3.2	3.2	3.2	3.2
60°	2.9	2.9	2.9	2.9	2.9
62.5°	2.5	2.5	2.5	2.5	2.5
65°	2.2	2.2	2.2	2.2	2.2
67.5°	2.2	2.2	2.2	2.2	2.2
70°	1.8	1.8	1.8	1.8	1.8
72.5°	1.4	1.4	1.4	1.4	1.4
75°	1.1	1.1	1.1	1.1	1.4
77.5°	1.1	1.1	1.1	1.1	1.1
80°	0.7	0.7	0.7	0.7	0.7
82.5°	0.7	0.7	0.7	0.7	0.7
85°	0.4	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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