

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P742174

Luminaire Tested: LD4D10D010-EU4DR300210IC9050-4LBSQW1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P742174
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D10D010-EU4DR300210IC9050-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 879.6 lumens
Efficiency: N/A
Efficacy: 75.2 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
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



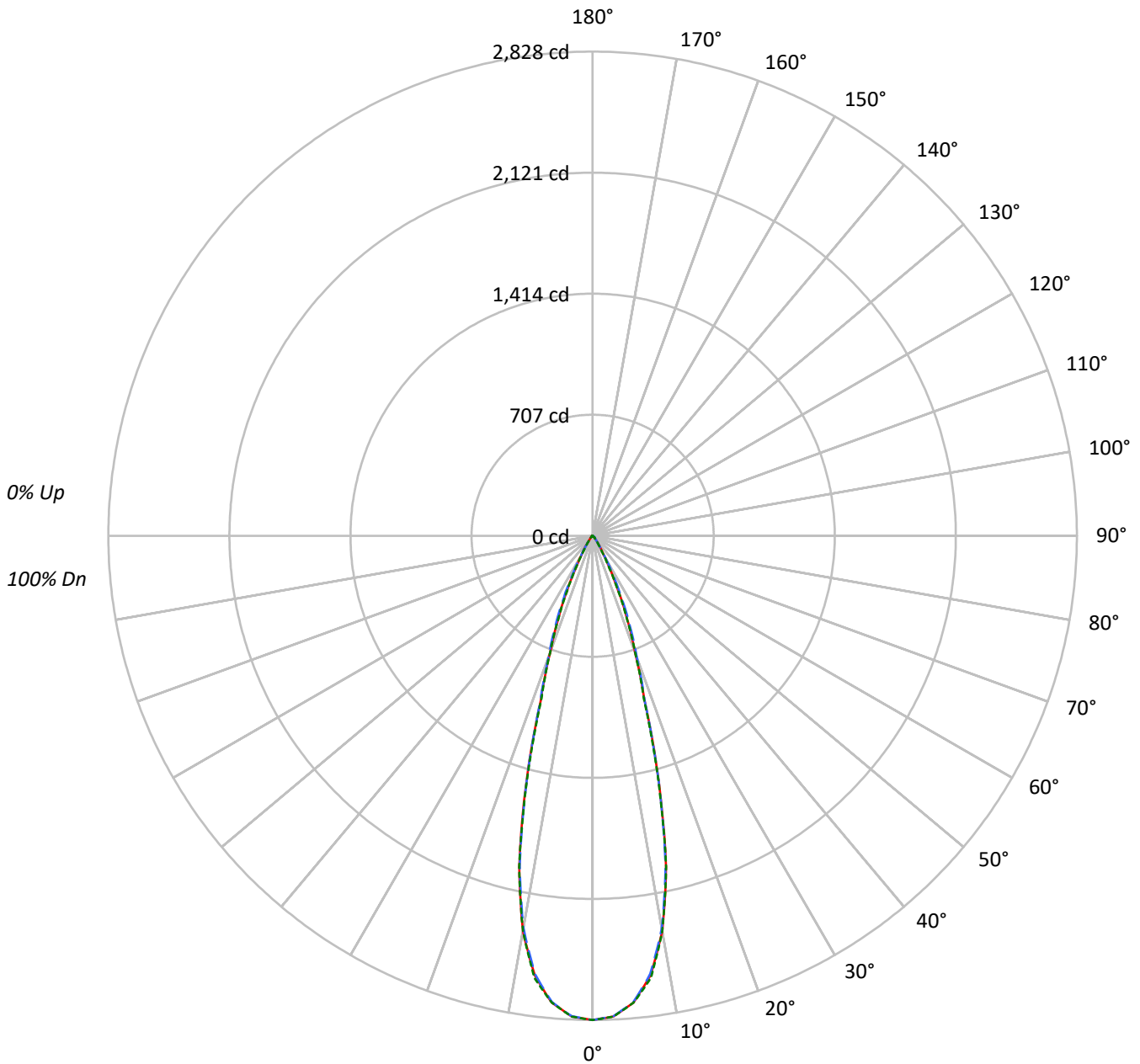
Downlight



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					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	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	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96					96			
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92					92			
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89					89			
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85					85			
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82					82			
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79					79			
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77					77			
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74					74			
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72					72			
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69					69			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	216495	216495	216495
5°	210284	210031	210292
10°	182139	180849	182092
15°	118834	118200	117605
20°	59088	61304	59007
25°	29762	33571	29154
30°	11914	12984	10385
35°	5522	5298	4439
40°	2388	2648	2248
45°	1678	2089	1700
50°	583	1524	619
55°	334	627	347
60°	230	276	230
65°	163	163	163
70°	90	67	90
75°	0	30	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 2089 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.7	28.3
10°-20°	400.6	45.5
20°-30°	173.1	19.7
30°-40°	39.5	4.5
40°-50°	13.5	1.5
50°-60°	3.3	0.4
60°-70°	0.9	0.1
70°-80°	0.1	0.0
80°-90°	0.0	0.0
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°	822.4	93.5
0°-40°	861.8	98.0
0°-60°	878.7	99.9
0°-90°	879.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	879.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2828	2828	2828	2828	2828	
5°	2737	2734	2734	2739	2737	249
15°	1500	1482	1492	1487	1484	402
25°	352	366	398	356	345	169
35°	59	60	57	56	48	40
45°	16	19	19	19	16	11
55°	2	3	5	3	3	2
65°	1	1	1	1	1	1
75°	0	0	0	0	0	0
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°	2828.4	2828.4	2828.4	2828.4	2828.4
2.5°	2809.6	2807.7	2808.8	2810.2	2810.8
5°	2736.8	2734.1	2733.5	2739.3	2736.9
7.5°	2589.7	2586.0	2580.2	2593.2	2605.3
10°	2343.4	2339.2	2326.8	2332.9	2342.8
12.5°	1979.7	1966.2	1965.9	1985.3	1982.7
15°	1499.6	1481.5	1491.6	1486.7	1484.1
17.5°	1008.5	1001.5	1014.8	1010.8	993.4
20°	725.4	727.2	752.6	739.9	724.4
22.5°	529.3	535.9	566.0	533.1	521.0
25°	352.4	365.8	397.5	356.5	345.2
27.5°	216.7	222.9	255.0	214.0	207.9
30°	134.8	131.8	146.9	126.1	117.5
32.5°	88.5	84.6	89.4	80.3	73.3
35°	59.1	60.4	56.7	56.3	47.5
37.5°	37.0	42.5	37.5	40.0	30.5
40°	23.9	30.8	26.5	29.3	22.5
42.5°	19.6	23.7	21.8	23.2	20.0
45°	15.5	19.3	19.3	19.3	15.7
47.5°	8.6	12.9	16.5	13.2	9.2
50°	4.9	6.5	12.8	6.8	5.2
52.5°	3.3	3.7	8.8	3.9	3.5
55°	2.5	2.6	4.7	2.8	2.6
57.5°	1.9	2.1	2.5	2.1	1.9
60°	1.5	1.5	1.8	1.7	1.5
62.5°	1.1	1.1	1.3	1.1	1.1
65°	0.9	0.9	0.9	0.9	0.9
67.5°	0.4	0.6	0.6	0.6	0.6
70°	0.4	0.3	0.3	0.3	0.4
72.5°	0.3	0.1	0.1	0.1	0.1
75°	0.0	0.0	0.1	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

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Scaled Data Report





— 0°-180° - - 45°-225° - - - 90°-270°

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