

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: P741148

Luminaire Tested: LD4D08D010-EU4DR300210IC9050-4LBCSSQMB

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P741148
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: LD4D08D010-EU4DR300210IC9050-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 714.7 lumens
Efficiency: N/A
Efficacy: 80.3 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): 8.9
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



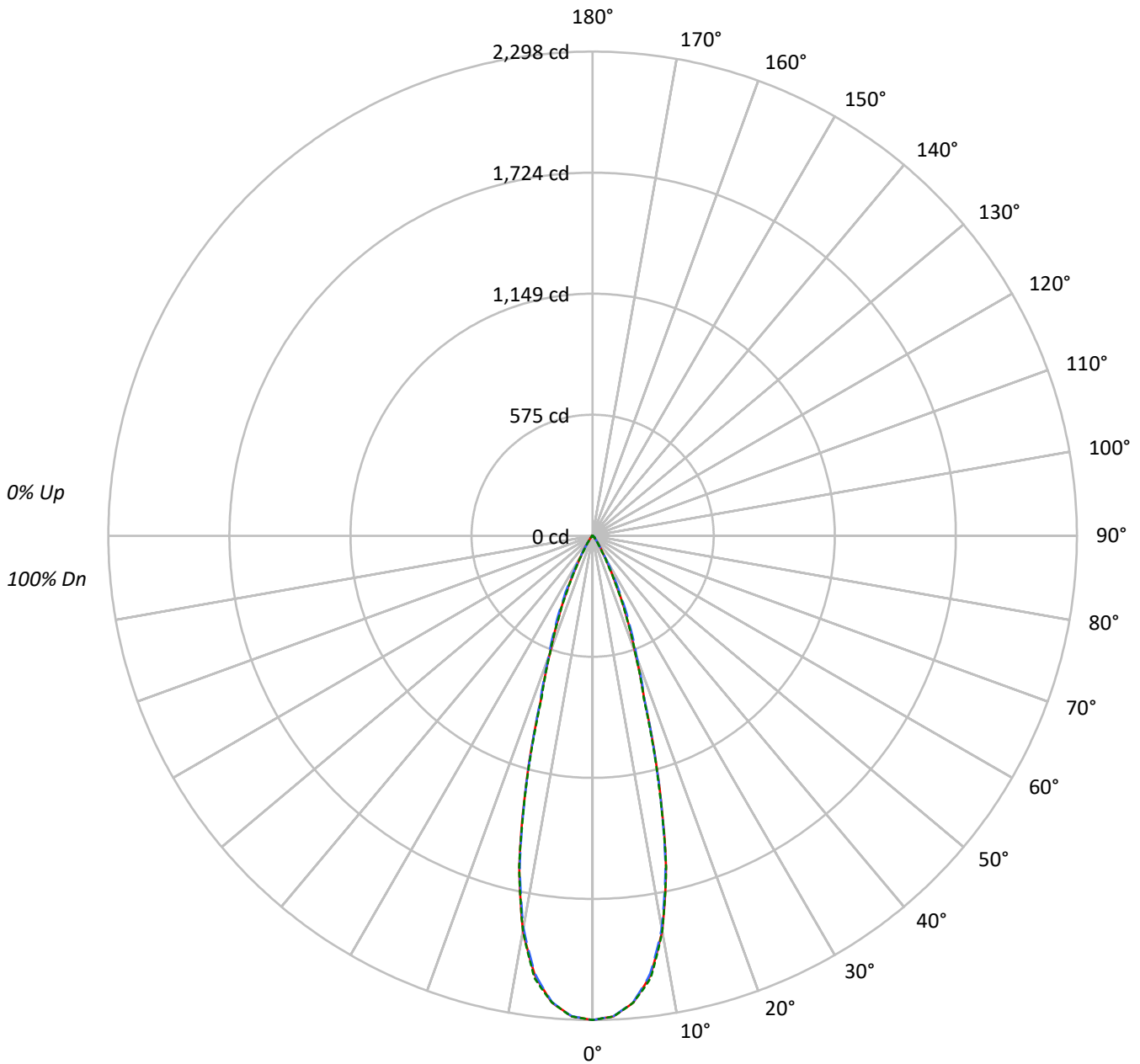
Downlight



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	175897	175897	175897
5°	170844	170645	170852
10°	147979	146938	147948
15°	96550	96027	95544
20°	48010	49810	47945
25°	24188	27271	23690
30°	9678	10544	8441
35°	4495	4298	3607
40°	1938	2148	1829
45°	1375	1700	1386
50°	476	1238	500
55°	267	507	280
60°	199	230	199
65°	127	127	127
70°	67	45	67
75°	0	30	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 1700 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.1	28.3
10°-20°	325.4	45.5
20°-30°	140.6	19.7
30°-40°	32.1	4.5
40°-50°	11.0	1.5
50°-60°	2.7	0.4
60°-70°	0.7	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°	668.1	93.5
0°-40°	700.2	98.0
0°-60°	713.9	99.9
0°-90°	714.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	714.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2298	2298	2298	2298	2298	
5°	2224	2221	2221	2226	2224	202
15°	1218	1204	1212	1208	1206	326
25°	286	297	323	290	280	137
35°	48	49	46	46	39	33
45°	13	16	16	16	13	9
55°	2	2	4	2	2	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°	2298.0	2298.0	2298.0	2298.0	2298.0
2.5°	2282.8	2281.1	2282.1	2283.2	2283.7
5°	2223.5	2221.4	2220.9	2225.6	2223.6
7.5°	2104.0	2101.0	2096.4	2106.9	2116.7
10°	1903.9	1900.5	1890.5	1895.4	1903.5
12.5°	1608.4	1597.4	1597.2	1613.0	1610.9
15°	1218.4	1203.7	1211.8	1207.9	1205.7
17.5°	819.3	813.7	824.5	821.2	807.1
20°	589.4	590.8	611.5	601.1	588.6
22.5°	430.1	435.4	459.9	433.2	423.3
25°	286.4	297.2	322.9	289.6	280.5
27.5°	176.1	181.1	207.1	173.8	168.9
30°	109.5	107.1	119.3	102.4	95.5
32.5°	71.8	68.7	72.7	65.2	59.6
35°	48.1	49.1	46.0	45.7	38.6
37.5°	30.0	34.5	30.5	32.5	24.8
40°	19.4	25.0	21.5	23.8	18.3
42.5°	15.9	19.3	17.7	18.9	16.3
45°	12.7	15.7	15.7	15.7	12.8
47.5°	7.0	10.5	13.4	10.7	7.4
50°	4.0	5.3	10.4	5.5	4.2
52.5°	2.7	3.0	7.1	3.2	2.8
55°	2.0	2.1	3.8	2.2	2.1
57.5°	1.6	1.7	2.0	1.7	1.6
60°	1.3	1.3	1.5	1.4	1.3
62.5°	0.9	0.9	1.0	0.9	0.9
65°	0.7	0.7	0.7	0.7	0.7
67.5°	0.3	0.5	0.5	0.5	0.5
70°	0.3	0.2	0.2	0.2	0.3
72.5°	0.2	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

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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