

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: P746004

Luminaire Tested: LD4D30D010-EU4DR3020359035-4LBCSSQMB

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P746004
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: LD4D30D010-EU4DR3020359035-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2521.3 lumens
Efficiency: N/A
Efficacy: 86.9 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): 29
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

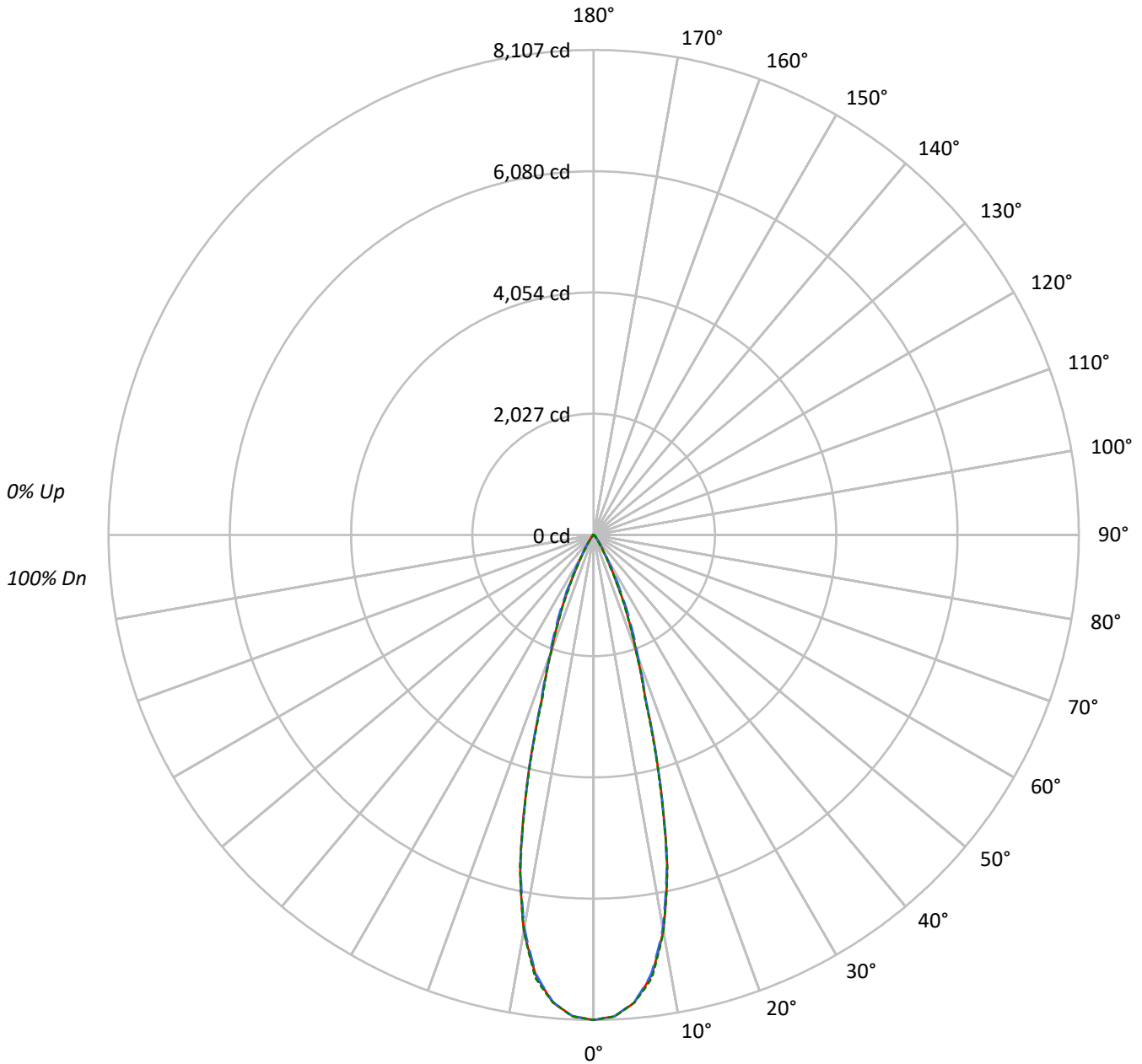


Downlight



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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°	620537	620537	620537
5°	602723	602024	602754
10°	522050	518374	521926
15°	340613	338782	337078
20°	169371	175725	169143
25°	85318	96204	83570
30°	34161	37219	29759
35°	15838	15175	12717
40°	6845	7594	6445
45°	4828	5986	4871
50°	1655	4358	1750
55°	961	1802	1014
60°	674	796	674
65°	435	435	435
70°	269	179	269
75°	0	118	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 5986 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	712.9	28.3
10°-20°	1148.1	45.5
20°-30°	496.1	19.7
30°-40°	113.1	4.5
40°-50°	38.8	1.5
50°-60°	9.5	0.4
60°-70°	2.5	0.1
70°-80°	0.3	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°	2357.1	93.5
0°-40°	2470.2	98.0
0°-60°	2518.5	99.9
0°-90°	2521.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2521.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8107	8107	8107	8107	8107	
5°	7844	7837	7835	7852	7845	713
15°	4298	4246	4275	4261	4254	1151
25°	1010	1048	1139	1022	990	484
35°	170	173	162	161	136	115
45°	45	55	55	55	45	32
55°	7	8	14	8	8	7
65°	2	2	2	2	2	2
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°	8107.0	8107.0	8107.0	8107.0	8107.0
2.5°	8053.3	8047.7	8050.9	8054.9	8056.5
5°	7844.3	7836.8	7835.2	7851.5	7844.7
7.5°	7422.8	7412.1	7395.8	7432.8	7467.4
10°	6716.7	6704.8	6669.4	6686.9	6715.1
12.5°	5674.3	5635.7	5634.9	5690.6	5683.0
15°	4298.3	4246.5	4275.2	4261.3	4253.7
17.5°	2890.5	2870.6	2908.8	2897.2	2847.5
20°	2079.3	2084.5	2157.3	2120.7	2076.5
22.5°	1517.3	1536.0	1622.4	1528.0	1493.4
25°	1010.2	1048.4	1139.1	1021.7	989.5
27.5°	621.3	638.8	730.8	613.3	595.9
30°	386.5	377.7	421.1	361.4	336.7
32.5°	253.5	242.4	256.3	230.0	210.2
35°	169.5	173.1	162.4	161.2	136.1
37.5°	105.9	121.8	107.5	114.6	87.5
40°	68.5	88.3	76.0	84.0	64.5
42.5°	56.1	68.1	62.5	66.5	57.3
45°	44.6	55.3	55.3	55.3	45.0
47.5°	24.7	37.0	47.4	37.8	26.3
50°	13.9	18.7	36.6	19.5	14.7
52.5°	9.6	10.8	25.1	11.2	10.0
55°	7.2	7.6	13.5	8.0	7.6
57.5°	5.6	6.0	7.2	6.0	5.6
60°	4.4	4.4	5.2	4.8	4.4
62.5°	3.2	3.2	3.6	3.2	3.2
65°	2.4	2.4	2.4	2.4	2.4
67.5°	1.2	1.6	1.6	1.6	1.6
70°	1.2	0.8	0.8	0.8	1.2
72.5°	0.8	0.4	0.4	0.4	0.4
75°	0.0	0.0	0.4	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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