

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: P744170

Luminaire Tested: LD4D20D010-EU4DR3020359050-4LBSQW1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P744170
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: LD4D20D010-EU4DR3020359050-4LBSQW1MW
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: 1623.0 lumens
Efficiency: N/A
Efficacy: 70.3 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): 23.1
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



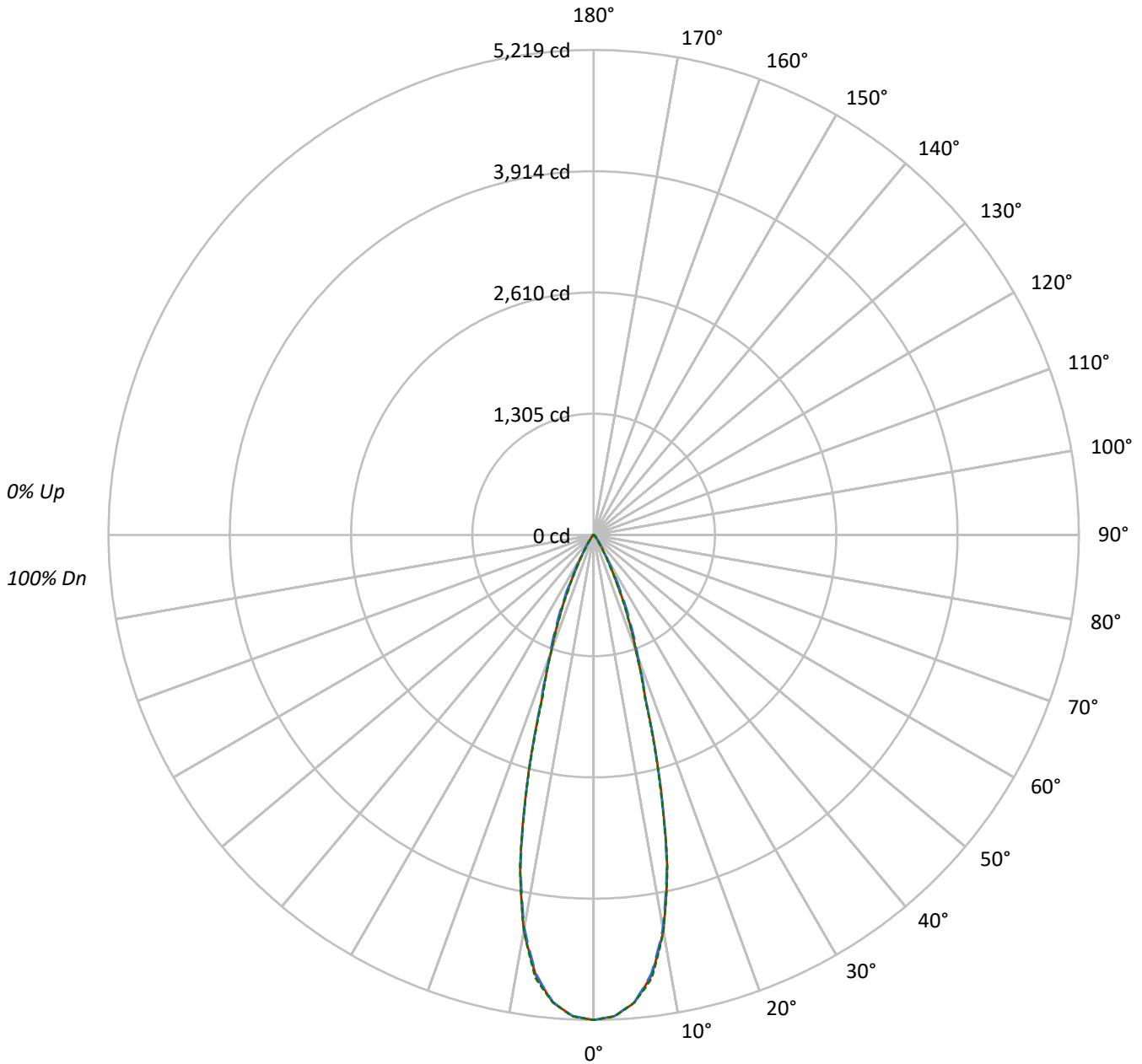
Downlight



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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	87	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°	399465	399465	399465
5°	387998	387544	388013
10°	336064	333693	335986
15°	219267	218086	216993
20°	109029	113118	108890
25°	54922	61932	53790
30°	21990	23961	19153
35°	10195	9774	8186
40°	4406	4886	4147
45°	3107	3854	3128
50°	1072	2798	1131
55°	614	1161	654
60°	429	505	429
65°	272	272	272
70°	157	112	157
75°	0	59	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 3854 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	458.9	28.3
10°-20°	739.1	45.5
20°-30°	319.4	19.7
30°-40°	72.8	4.5
40°-50°	25.0	1.5
50°-60°	6.1	0.4
60°-70°	1.6	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°	1517.4	93.5
0°-40°	1590.2	98.0
0°-60°	1621.3	99.9
0°-90°	1623.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1623.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5219	5219	5219	5219	5219	
5°	5050	5045	5044	5054	5050	459
15°	2767	2734	2752	2743	2738	741
25°	650	675	733	658	637	311
35°	109	111	105	104	88	74
45°	29	36	36	36	29	20
55°	5	5	9	5	5	4
65°	2	2	2	2	2	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°	5218.8	5218.8	5218.8	5218.8	5218.8
2.5°	5184.2	5180.6	5182.7	5185.2	5186.2
5°	5049.7	5044.8	5043.8	5054.3	5049.9
7.5°	4778.4	4771.4	4760.9	4784.8	4807.1
10°	4323.8	4316.1	4293.3	4304.6	4322.8
12.5°	3652.7	3627.9	3627.4	3663.3	3658.4
15°	2767.0	2733.7	2752.1	2743.1	2738.3
17.5°	1860.7	1847.9	1872.5	1865.1	1833.0
20°	1338.5	1341.9	1388.7	1365.2	1336.8
22.5°	976.7	988.8	1044.4	983.6	961.4
25°	650.3	674.9	733.3	657.7	636.9
27.5°	400.0	411.3	470.4	394.8	383.6
30°	248.8	243.2	271.1	232.7	216.7
32.5°	163.2	156.0	165.0	148.1	135.3
35°	109.1	111.4	104.6	103.8	87.6
37.5°	68.2	78.4	69.2	73.8	56.4
40°	44.1	56.9	48.9	54.1	41.5
42.5°	36.2	43.8	40.2	42.8	36.9
45°	28.7	35.6	35.6	35.6	28.9
47.5°	15.9	23.8	30.5	24.4	16.9
50°	9.0	12.0	23.5	12.5	9.5
52.5°	6.1	6.9	16.2	7.2	6.4
55°	4.6	4.9	8.7	5.1	4.9
57.5°	3.6	3.8	4.6	3.8	3.6
60°	2.8	2.8	3.3	3.1	2.8
62.5°	2.1	2.1	2.3	2.1	2.1
65°	1.5	1.5	1.5	1.5	1.5
67.5°	0.7	1.0	1.0	1.0	1.0
70°	0.7	0.5	0.5	0.5	0.7
72.5°	0.5	0.2	0.2	0.2	0.2
75°	0.0	0.0	0.2	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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