

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: P745044

Luminaire Tested: LD4D25D010-EU4DR3020359027-4LBCSSQMW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P745044
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: LD4D25D010-EU4DR3020359027-4LBCSSQMW
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2058.2 lumens
Efficiency: N/A
Efficacy: 82.0 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): 25.1
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



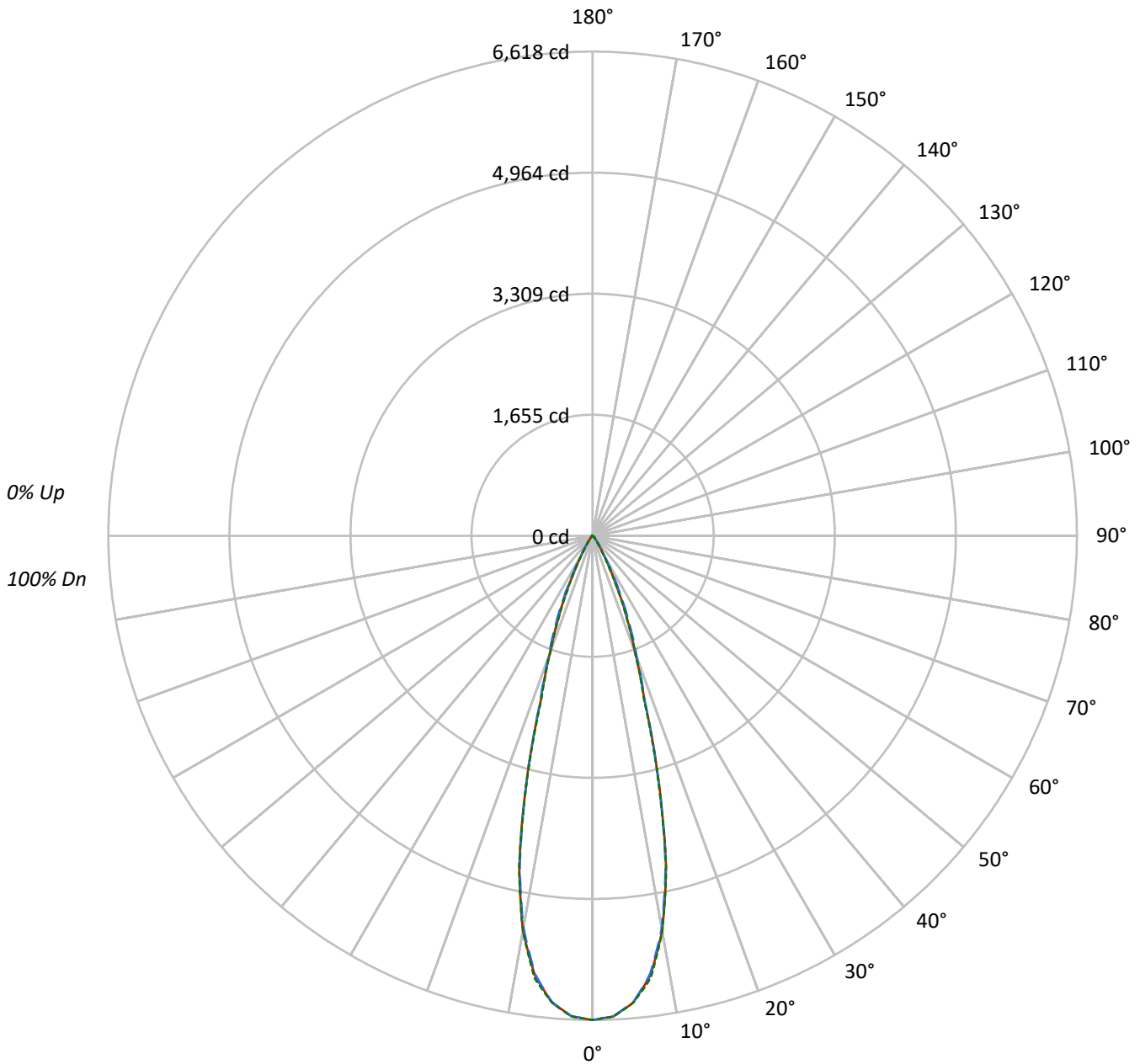
Downlight



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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	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°	506572	506572	506572
5°	492026	491457	492056
10°	426170	423169	426069
15°	278058	276560	275173
20°	138263	143452	138076
25°	69643	78544	68215
30°	27885	30387	24297
35°	12932	12390	10391
40°	5586	6205	5266
45°	3940	4882	3973
50°	1346	3561	1429
55°	774	1481	827
60°	551	643	551
65°	344	344	344
70°	224	134	224
75°	0	89	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 4882 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	582.0	28.3
10°-20°	937.3	45.5
20°-30°	405.0	19.7
30°-40°	92.3	4.5
40°-50°	31.7	1.5
50°-60°	7.7	0.4
60°-70°	2.0	0.1
70°-80°	0.2	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°	1924.2	93.5
0°-40°	2016.5	98.0
0°-60°	2056.0	99.9
0°-90°	2058.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2058.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6618	6618	6618	6618	6618	
5°	6404	6398	6396	6410	6404	582
15°	3509	3467	3490	3479	3472	940
25°	825	856	930	834	808	395
35°	138	141	133	132	111	94
45°	36	45	45	45	37	26
55°	6	6	11	6	6	6
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°	6618.1	6618.1	6618.1	6618.1	6618.1
2.5°	6574.3	6569.7	6572.3	6575.5	6576.8
5°	6403.6	6397.5	6396.2	6409.5	6404.0
7.5°	6059.6	6050.8	6037.5	6067.7	6096.0
10°	5483.1	5473.4	5444.5	5458.8	5481.8
12.5°	4632.1	4600.6	4600.0	4645.5	4639.3
15°	3508.9	3466.6	3490.0	3478.7	3472.5
17.5°	2359.6	2343.4	2374.5	2365.1	2324.5
20°	1697.4	1701.7	1761.1	1731.2	1695.1
22.5°	1238.6	1253.9	1324.4	1247.4	1219.1
25°	824.6	855.9	930.0	834.1	807.7
27.5°	507.2	521.5	596.6	500.7	486.4
30°	315.5	308.4	343.8	295.0	274.9
32.5°	206.9	197.9	209.2	187.8	171.5
35°	138.4	141.3	132.6	131.6	111.2
37.5°	86.5	99.4	87.7	93.6	71.5
40°	55.9	72.1	62.1	68.6	52.7
42.5°	45.8	55.6	51.0	54.3	46.8
45°	36.4	45.1	45.1	45.1	36.7
47.5°	20.2	30.2	38.7	30.9	21.4
50°	11.3	15.3	29.9	15.9	12.0
52.5°	7.8	8.8	20.5	9.1	8.1
55°	5.8	6.2	11.1	6.5	6.2
57.5°	4.5	4.9	5.8	4.9	4.5
60°	3.6	3.6	4.2	3.9	3.6
62.5°	2.6	2.6	2.9	2.6	2.6
65°	1.9	1.9	1.9	1.9	1.9
67.5°	1.0	1.3	1.3	1.3	1.3
70°	1.0	0.6	0.6	0.6	1.0
72.5°	0.6	0.3	0.3	0.3	0.3
75°	0.0	0.0	0.3	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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