

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: P745030

Luminaire Tested: LD4D25D010-EU4DR3020359024-4LBCSSQMMS

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P745030
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-EU4DR3020359024-4LBCSSQMMS
Description: 4 INCH SQAURE SHALLOW CAST MATTE METALLIC SILVER TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1853.8 lumens
Efficiency: N/A
Efficacy: 73.9 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): 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

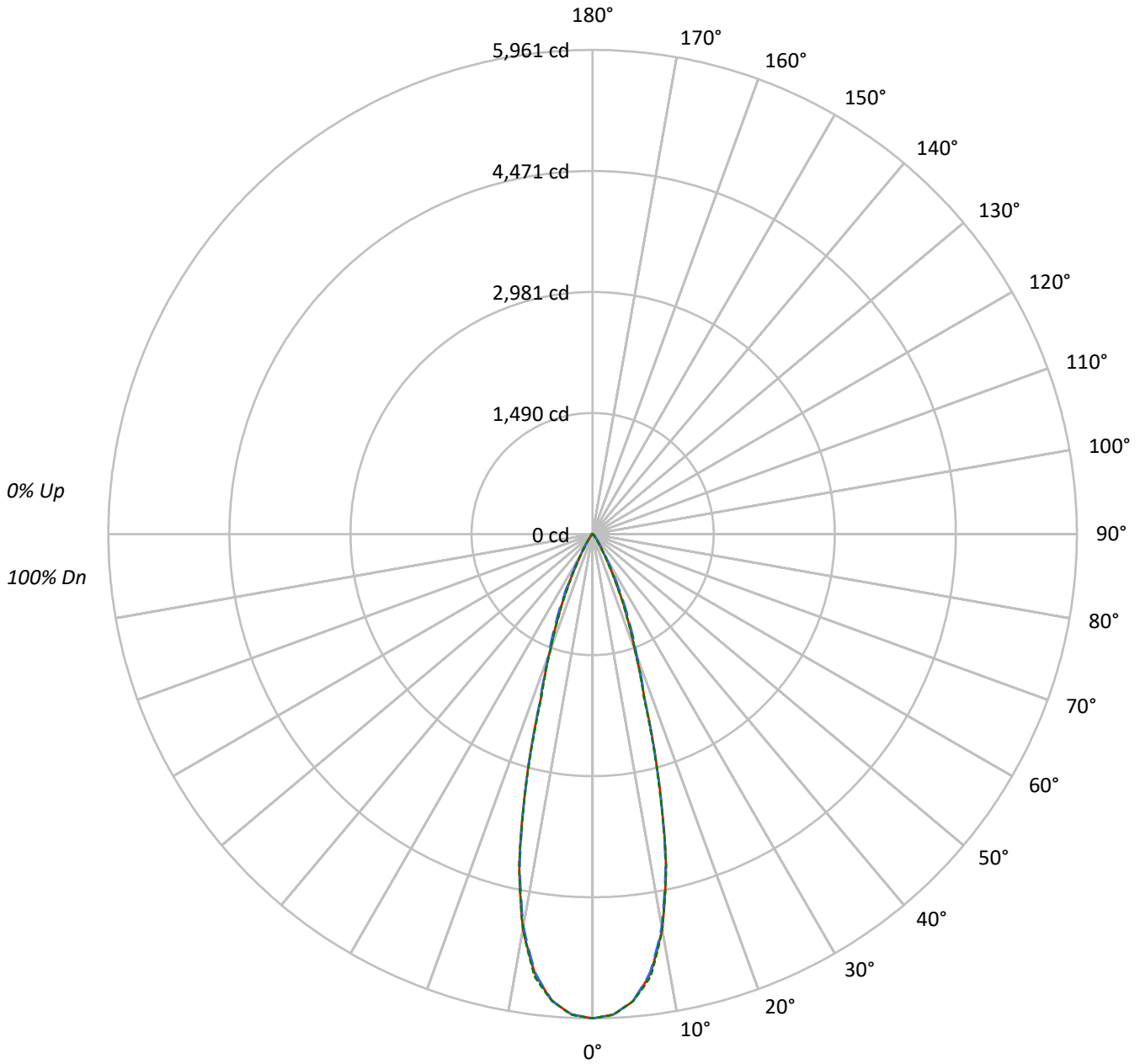


Downlight



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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°	456268	456268	456268
5°	443166	442651	443189
10°	383857	381144	383763
15°	250449	249094	247850
20°	124538	129205	124367
25°	62734	70741	61442
30°	25119	27364	21884
35°	11652	11157	9354
40°	5036	5586	4736
45°	3551	4406	3583
50°	1227	3203	1286
55°	707	1334	747
60°	490	582	490
65°	326	326	326
70°	201	134	201
75°	0	89	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 4406 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	524.2	28.3
10°-20°	844.2	45.5
20°-30°	364.8	19.7
30°-40°	83.1	4.5
40°-50°	28.6	1.5
50°-60°	7.0	0.4
60°-70°	1.8	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°	1733.1	93.5
0°-40°	1816.3	98.0
0°-60°	1851.8	99.9
0°-90°	1853.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1853.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5961	5961	5961	5961	5961	
5°	5768	5762	5761	5773	5768	525
15°	3160	3122	3143	3133	3128	846
25°	743	771	838	751	728	356
35°	125	127	119	118	100	85
45°	33	41	41	41	33	23
55°	5	6	10	6	6	5
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	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5960.9	5960.9	5960.9	5960.9	5960.9
2.5°	5921.4	5917.3	5919.6	5922.5	5923.7
5°	5767.7	5762.2	5761.0	5773.0	5768.0
7.5°	5457.8	5449.9	5437.9	5465.1	5490.6
10°	4938.7	4929.8	4903.8	4916.7	4937.5
12.5°	4172.2	4143.8	4143.2	4184.1	4178.6
15°	3160.5	3122.4	3143.4	3133.2	3127.7
17.5°	2125.3	2110.6	2138.8	2130.3	2093.7
20°	1528.9	1532.6	1586.2	1559.3	1526.8
22.5°	1115.6	1129.4	1192.9	1123.5	1098.1
25°	742.8	770.8	837.6	751.3	727.5
27.5°	456.8	469.7	537.3	451.0	438.1
30°	284.2	277.7	309.6	265.7	247.6
32.5°	186.4	178.2	188.5	169.1	154.5
35°	124.7	127.3	119.4	118.5	100.1
37.5°	77.9	89.6	79.0	84.3	64.4
40°	50.4	65.0	55.9	61.8	47.4
42.5°	41.3	50.0	46.0	48.9	42.2
45°	32.8	40.7	40.7	40.7	33.1
47.5°	18.2	27.2	34.8	27.8	19.3
50°	10.3	13.8	26.9	14.3	10.8
52.5°	7.0	7.9	18.4	8.2	7.3
55°	5.3	5.6	10.0	5.8	5.6
57.5°	4.1	4.4	5.3	4.4	4.1
60°	3.2	3.2	3.8	3.5	3.2
62.5°	2.3	2.3	2.6	2.3	2.3
65°	1.8	1.8	1.8	1.8	1.8
67.5°	0.9	1.1	1.1	1.1	1.1
70°	0.9	0.6	0.6	0.6	0.9
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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