

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: P744094

Luminaire Tested: LD4D20D010-EU4DR3020359024-4LBCSSQMMS

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P744094
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-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: 1434.6 lumens
Efficiency: N/A
Efficacy: 62.1 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



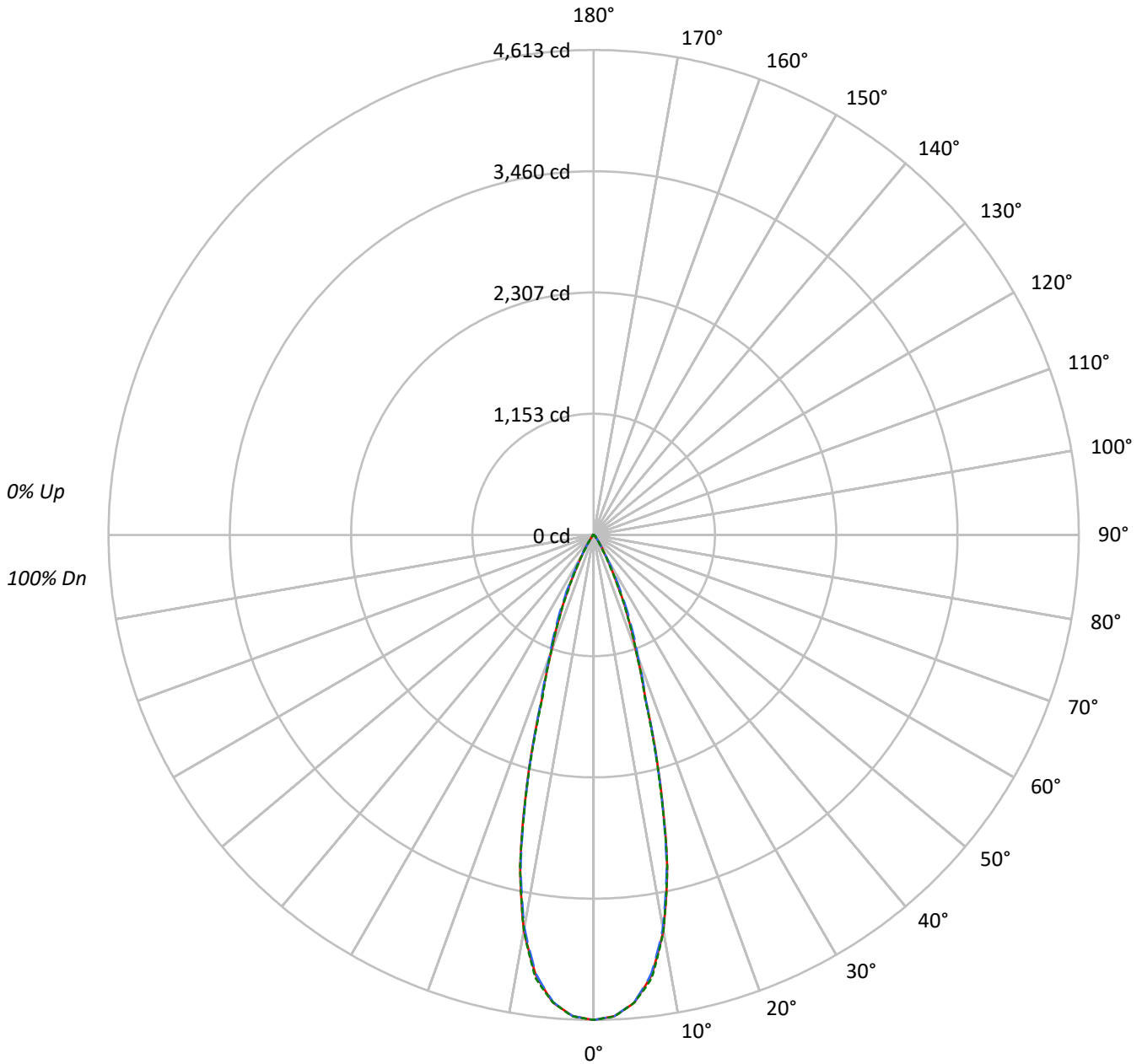
Downlight



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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	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°	353087	353087	353087
5°	342957	342549	342972
10°	297046	294956	296976
15°	193814	192768	191801
20°	96370	99987	96240
25°	48545	54745	47549
30°	19436	21177	16935
35°	9017	8634	7242
40°	3897	4327	3667
45°	2750	3410	2771
50°	941	2489	1000
55°	547	1028	574
60°	383	444	383
65°	254	254	254
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: 3410 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	405.6	28.3
10°-20°	653.3	45.5
20°-30°	282.3	19.7
30°-40°	64.3	4.5
40°-50°	22.1	1.5
50°-60°	5.4	0.4
60°-70°	1.4	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°	1341.2	93.5
0°-40°	1405.6	98.0
0°-60°	1433.1	99.9
0°-90°	1434.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1434.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4613	4613	4613	4613	4613	
5°	4464	4459	4458	4468	4464	406
15°	2446	2416	2433	2425	2420	655
25°	575	597	648	581	563	275
35°	96	98	92	92	78	65
45°	25	32	32	32	26	18
55°	4	4	8	4	4	4
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°	4612.9	4612.9	4612.9	4612.9	4612.9
2.5°	4582.3	4579.1	4581.0	4583.3	4584.1
5°	4463.5	4459.1	4458.2	4467.5	4463.7
7.5°	4223.6	4217.5	4208.2	4229.2	4248.9
10°	3821.8	3815.1	3794.9	3804.9	3820.9
12.5°	3228.7	3206.7	3206.2	3238.0	3233.7
15°	2445.8	2416.3	2432.6	2424.7	2420.4
17.5°	1644.7	1633.4	1655.1	1648.6	1620.2
20°	1183.1	1186.1	1227.5	1206.7	1181.5
22.5°	863.3	874.0	923.1	869.5	849.7
25°	574.8	596.6	648.2	581.4	563.0
27.5°	353.5	363.5	415.8	349.0	339.0
30°	219.9	214.9	239.6	205.6	191.6
32.5°	144.3	137.9	145.9	130.9	119.6
35°	96.5	98.5	92.4	91.7	77.5
37.5°	60.2	69.3	61.1	65.2	49.8
40°	39.0	50.3	43.3	47.8	36.7
42.5°	31.9	38.7	35.6	37.8	32.6
45°	25.4	31.5	31.5	31.5	25.6
47.5°	14.0	21.1	26.9	21.5	15.0
50°	7.9	10.7	20.9	11.1	8.4
52.5°	5.4	6.1	14.3	6.4	5.7
55°	4.1	4.3	7.7	4.5	4.3
57.5°	3.2	3.4	4.1	3.4	3.2
60°	2.5	2.5	2.9	2.7	2.5
62.5°	1.8	1.8	2.1	1.8	1.8
65°	1.4	1.4	1.4	1.4	1.4
67.5°	0.7	0.9	0.9	0.9	0.9
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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