

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: P744160

Luminaire Tested: LD4D20D010-EU4DR3020359050-4LBCSSQMW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P744160
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-EU4DR3020359050-4LBCSSQMW
Description: 4 INCH SQAURE SHALLOW CAST 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: 1763.2 lumens
Efficiency: N/A
Efficacy: 76.3 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 (A_{in}): 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

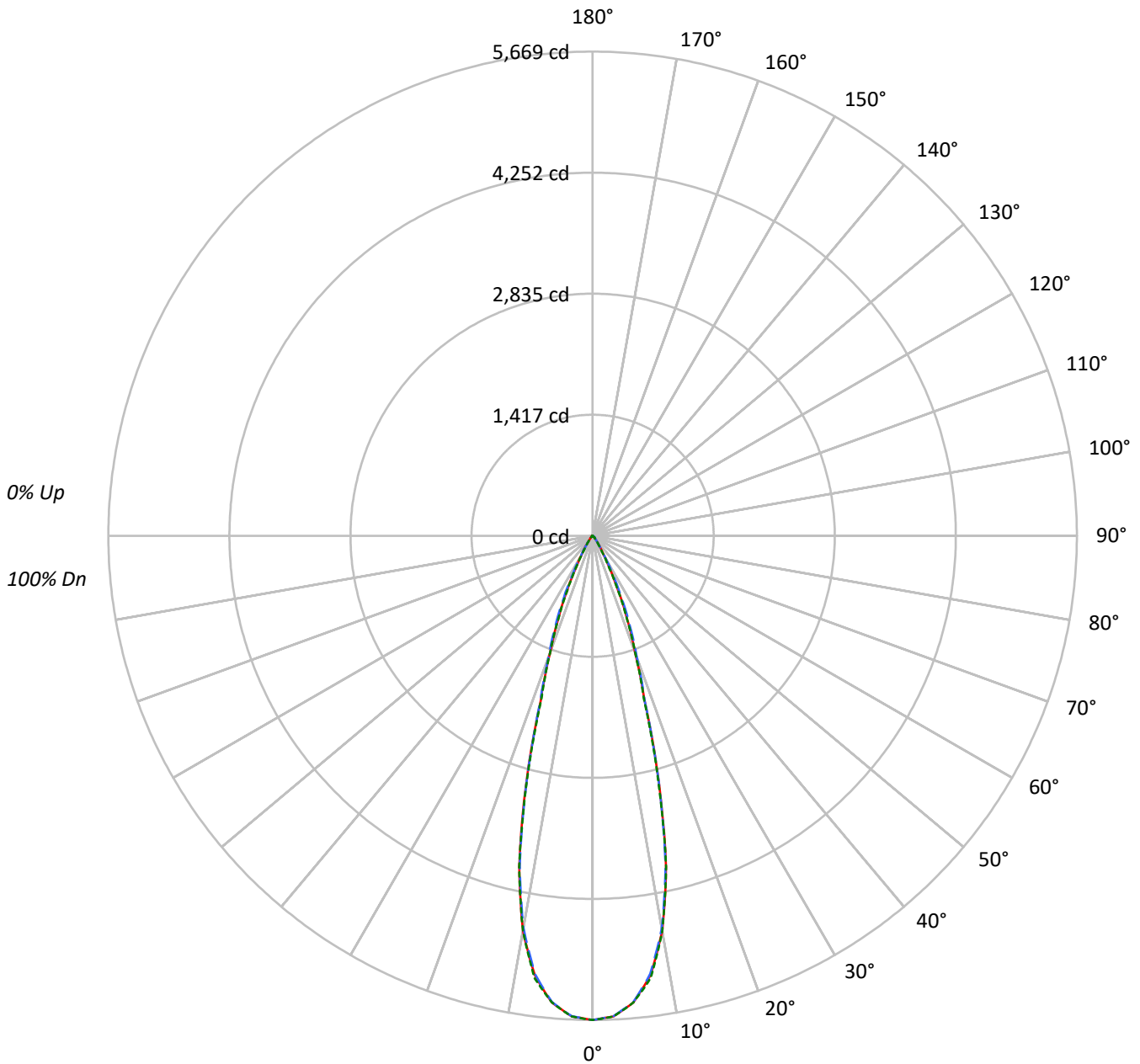


Downlight



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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°	433955	433955	433955
5°	421498	420999	421513
10°	365078	362506	364993
15°	238198	236914	235726
20°	118445	122884	118282
25°	59660	67278	58444
30°	23890	26029	20815
35°	11082	10615	8896
40°	4786	5316	4506
45°	3377	4189	3410
50°	1155	3048	1227
55°	667	1268	707
60°	459	551	459
65°	308	308	308
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: 4189 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	498.5	28.3
10°-20°	802.9	45.5
20°-30°	347.0	19.7
30°-40°	79.1	4.5
40°-50°	27.2	1.5
50°-60°	6.6	0.4
60°-70°	1.7	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°	1648.4	93.5
0°-40°	1727.5	98.0
0°-60°	1761.3	99.9
0°-90°	1763.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1763.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5669	5669	5669	5669	5669	
5°	5486	5480	5479	5491	5486	499
15°	3006	2970	2990	2980	2975	805
25°	706	733	797	714	692	338
35°	119	121	114	113	95	80
45°	31	39	39	39	32	22
55°	5	5	10	6	5	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5669.4	5669.4	5669.4	5669.4	5669.4
2.5°	5631.8	5627.9	5630.2	5632.9	5634.1
5°	5485.7	5480.4	5479.2	5490.7	5485.9
7.5°	5190.9	5183.4	5172.0	5197.9	5222.1
10°	4697.1	4688.7	4664.0	4676.3	4696.0
12.5°	3968.1	3941.1	3940.6	3979.5	3974.2
15°	3005.9	2969.7	2989.7	2980.0	2974.7
17.5°	2021.4	2007.4	2034.1	2026.1	1991.3
20°	1454.1	1457.7	1508.6	1483.0	1452.1
22.5°	1061.0	1074.2	1134.6	1068.6	1044.4
25°	706.4	733.1	796.6	714.5	692.0
27.5°	434.5	446.7	511.1	428.9	416.7
30°	270.3	264.1	294.5	252.7	235.5
32.5°	177.3	169.5	179.3	160.9	147.0
35°	118.6	121.1	113.6	112.8	95.2
37.5°	74.0	85.2	75.2	80.2	61.2
40°	47.9	61.8	53.2	58.7	45.1
42.5°	39.2	47.6	43.7	46.5	40.1
45°	31.2	38.7	38.7	38.7	31.5
47.5°	17.2	25.9	33.1	26.5	18.4
50°	9.7	13.1	25.6	13.6	10.3
52.5°	6.7	7.5	17.5	7.8	6.9
55°	5.0	5.3	9.5	5.6	5.3
57.5°	3.9	4.2	5.0	4.2	3.9
60°	3.0	3.0	3.6	3.3	3.0
62.5°	2.2	2.2	2.5	2.2	2.2
65°	1.7	1.7	1.7	1.7	1.7
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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