

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P744105

Luminaire Tested: LD4D20D010-EU4DR3020359024-4LBSQW1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P744105
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-EU4DR3020359024-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1320.8 lumens
Efficiency: N/A
Efficacy: 57.2 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

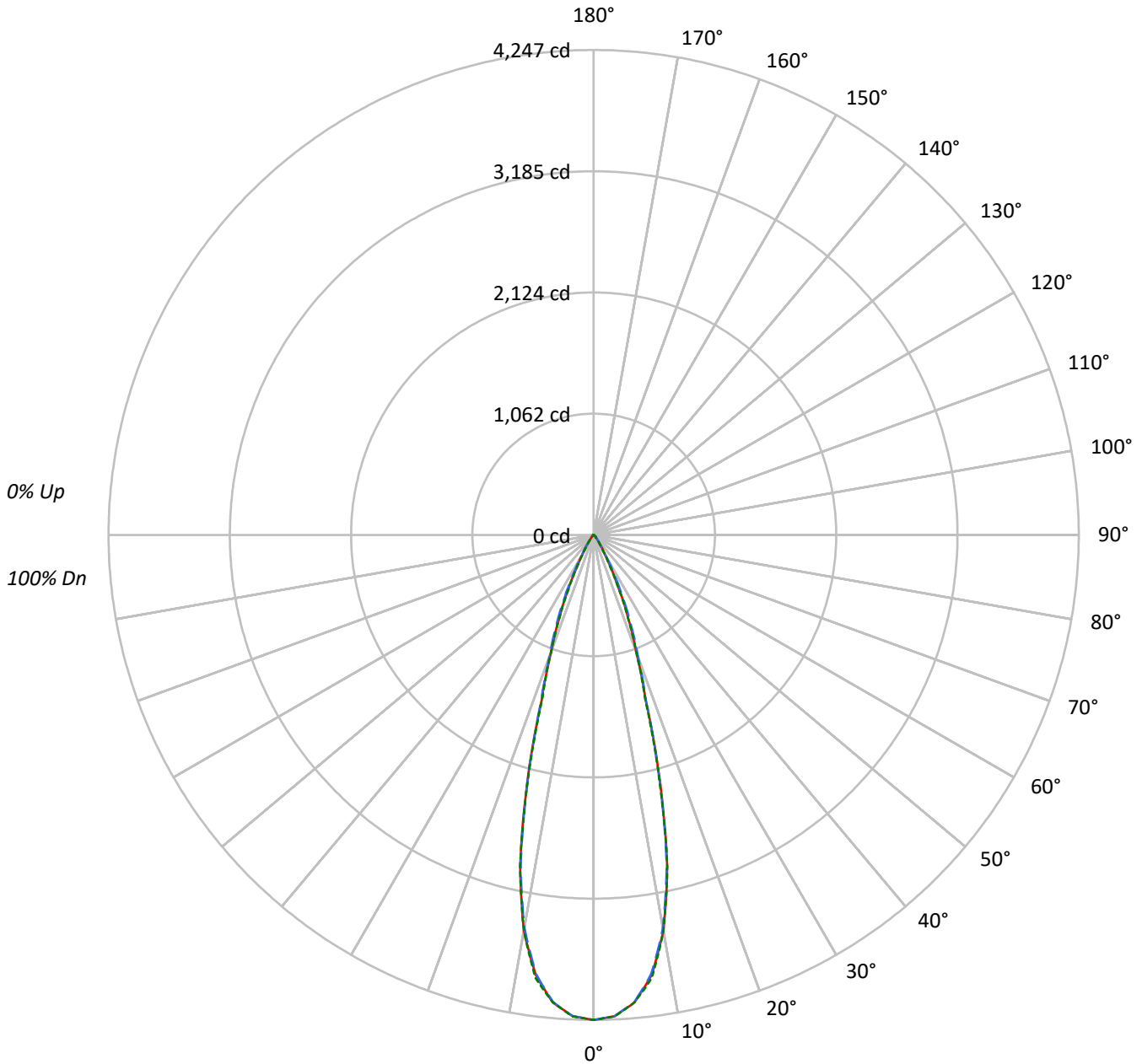


Downlight



TEST NUMBER: P744105
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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	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°	325072	325072	325072
5°	315741	315380	315757
10°	273480	271553	273418
15°	178433	177474	176586
20°	88722	92053	88608
25°	44694	50404	43774
30°	17898	19498	15591
35°	8298	7952	6662
40°	3587	3977	3377
45°	2533	3139	2544
50°	869	2286	917
55°	507	947	534
60°	352	413	352
65°	235	235	235
70°	134	90	134
75°	0	59	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 3139 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	373.5	28.3
10°-20°	601.5	45.5
20°-30°	259.9	19.7
30°-40°	59.2	4.5
40°-50°	20.3	1.5
50°-60°	5.0	0.4
60°-70°	1.3	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°	1234.8	93.5
0°-40°	1294.1	98.0
0°-60°	1319.4	99.9
0°-90°	1320.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1320.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4247	4247	4247	4247	4247	
5°	4109	4105	4105	4113	4110	374
15°	2252	2225	2240	2232	2228	603
25°	529	549	597	535	518	253
35°	89	91	85	84	71	60
45°	23	29	29	29	24	17
55°	4	4	7	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	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4246.9	4246.9	4246.9	4246.9	4246.9
2.5°	4218.8	4215.9	4217.5	4219.7	4220.5
5°	4109.3	4105.4	4104.6	4113.1	4109.5
7.5°	3888.5	3882.9	3874.4	3893.7	3911.9
10°	3518.6	3512.4	3493.8	3503.0	3517.8
12.5°	2972.5	2952.3	2951.9	2981.1	2977.1
15°	2251.7	2224.6	2239.6	2232.3	2228.4
17.5°	1514.2	1503.8	1523.8	1517.7	1491.7
20°	1089.2	1092.0	1130.1	1111.0	1087.8
22.5°	794.9	804.7	849.9	800.5	782.3
25°	529.2	549.2	596.8	535.3	518.3
27.5°	325.5	334.7	382.8	321.3	312.1
30°	202.5	197.9	220.6	189.3	176.4
32.5°	132.8	127.0	134.3	120.5	110.1
35°	88.8	90.7	85.1	84.5	71.3
37.5°	55.5	63.8	56.3	60.0	45.9
40°	35.9	46.3	39.8	44.0	33.8
42.5°	29.4	35.6	32.7	34.8	30.0
45°	23.4	29.0	29.0	29.0	23.5
47.5°	12.9	19.4	24.8	19.8	13.8
50°	7.3	9.8	19.2	10.2	7.7
52.5°	5.0	5.6	13.1	5.8	5.2
55°	3.8	4.0	7.1	4.2	4.0
57.5°	2.9	3.2	3.8	3.2	2.9
60°	2.3	2.3	2.7	2.5	2.3
62.5°	1.7	1.7	1.9	1.7	1.7
65°	1.3	1.3	1.3	1.3	1.3
67.5°	0.6	0.9	0.9	0.9	0.9
70°	0.6	0.4	0.4	0.4	0.6
72.5°	0.4	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

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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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