

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: P746042

Luminaire Tested: LD4D30D010-EU4DR3020359050-4LBSQW1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P746042
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: LD4D30D010-EU4DR3020359050-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF 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: 2357.2 lumens
Efficiency: N/A
Efficacy: 81.3 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): 29
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

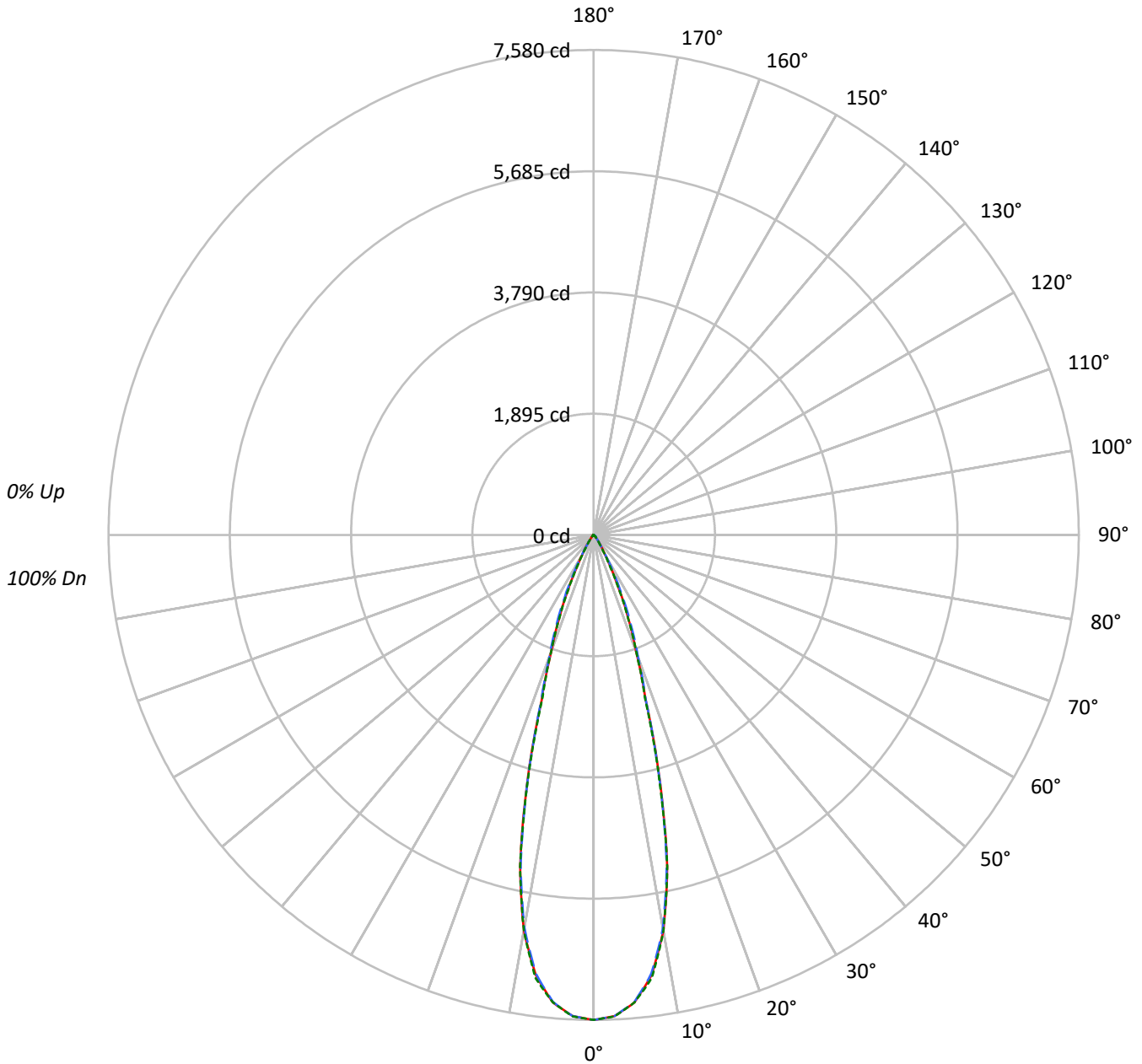


Downlight



TEST NUMBER: P746042
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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	87	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°	580184	580184	580184
5°	563529	562868	563560
10°	488100	484657	487984
15°	318464	316752	315160
20°	158358	164296	158138
25°	79769	89954	78131
30°	31942	34797	27824
35°	14811	14185	11895
40°	6395	7104	6025
45°	4514	5596	4557
50°	1548	4084	1643
55°	894	1695	934
60°	628	735	628
65°	398	398	398
70°	246	157	246
75°	0	89	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 5596 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	666.5	28.3
10°-20°	1073.5	45.5
20°-30°	463.9	19.7
30°-40°	105.7	4.5
40°-50°	36.3	1.5
50°-60°	8.9	0.4
60°-70°	2.3	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°	2203.8	93.5
0°-40°	2309.6	98.0
0°-60°	2354.7	99.9
0°-90°	2357.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2357.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7580	7580	7580	7580	7580	
5°	7334	7327	7326	7341	7335	667
15°	4019	3970	3997	3984	3977	1076
25°	944	980	1065	955	925	452
35°	158	162	152	151	127	108
45°	42	52	52	52	42	30
55°	7	7	13	7	7	7
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°	7579.8	7579.8	7579.8	7579.8	7579.8
2.5°	7529.5	7524.3	7527.3	7531.0	7532.5
5°	7334.2	7327.1	7325.6	7340.9	7334.6
7.5°	6940.1	6930.0	6914.8	6949.4	6981.7
10°	6279.9	6268.8	6235.6	6252.0	6278.4
12.5°	5305.2	5269.1	5268.4	5320.5	5313.4
15°	4018.8	3970.4	3997.2	3984.2	3977.1
17.5°	2702.5	2683.9	2719.6	2708.9	2662.3
20°	1944.1	1948.9	2017.0	1982.8	1941.4
22.5°	1418.6	1436.1	1516.8	1428.7	1396.3
25°	944.5	980.2	1065.1	955.3	925.1
27.5°	580.9	597.3	683.2	573.5	557.1
30°	361.4	353.2	393.7	337.9	314.8
32.5°	237.0	226.7	239.7	215.1	196.5
35°	158.5	161.9	151.8	150.7	127.3
37.5°	99.0	113.9	100.5	107.2	81.9
40°	64.0	82.6	71.1	78.5	60.3
42.5°	52.5	63.7	58.4	62.2	53.6
45°	41.7	51.7	51.7	51.7	42.1
47.5°	23.1	34.6	44.3	35.4	24.6
50°	13.0	17.5	34.3	18.2	13.8
52.5°	8.9	10.0	23.4	10.4	9.3
55°	6.7	7.0	12.7	7.4	7.0
57.5°	5.2	5.6	6.7	5.6	5.2
60°	4.1	4.1	4.8	4.5	4.1
62.5°	3.0	3.0	3.3	3.0	3.0
65°	2.2	2.2	2.2	2.2	2.2
67.5°	1.1	1.5	1.5	1.5	1.5
70°	1.1	0.7	0.7	0.7	1.1
72.5°	0.7	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

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Scaled Data Report





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

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