

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: P749880

Luminaire Tested: LD4D55D010-EU4DR3055659027-4LBCSSQMW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749880
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: LD4D55D010-EU4DR3055659027-4LBCSSQMW
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

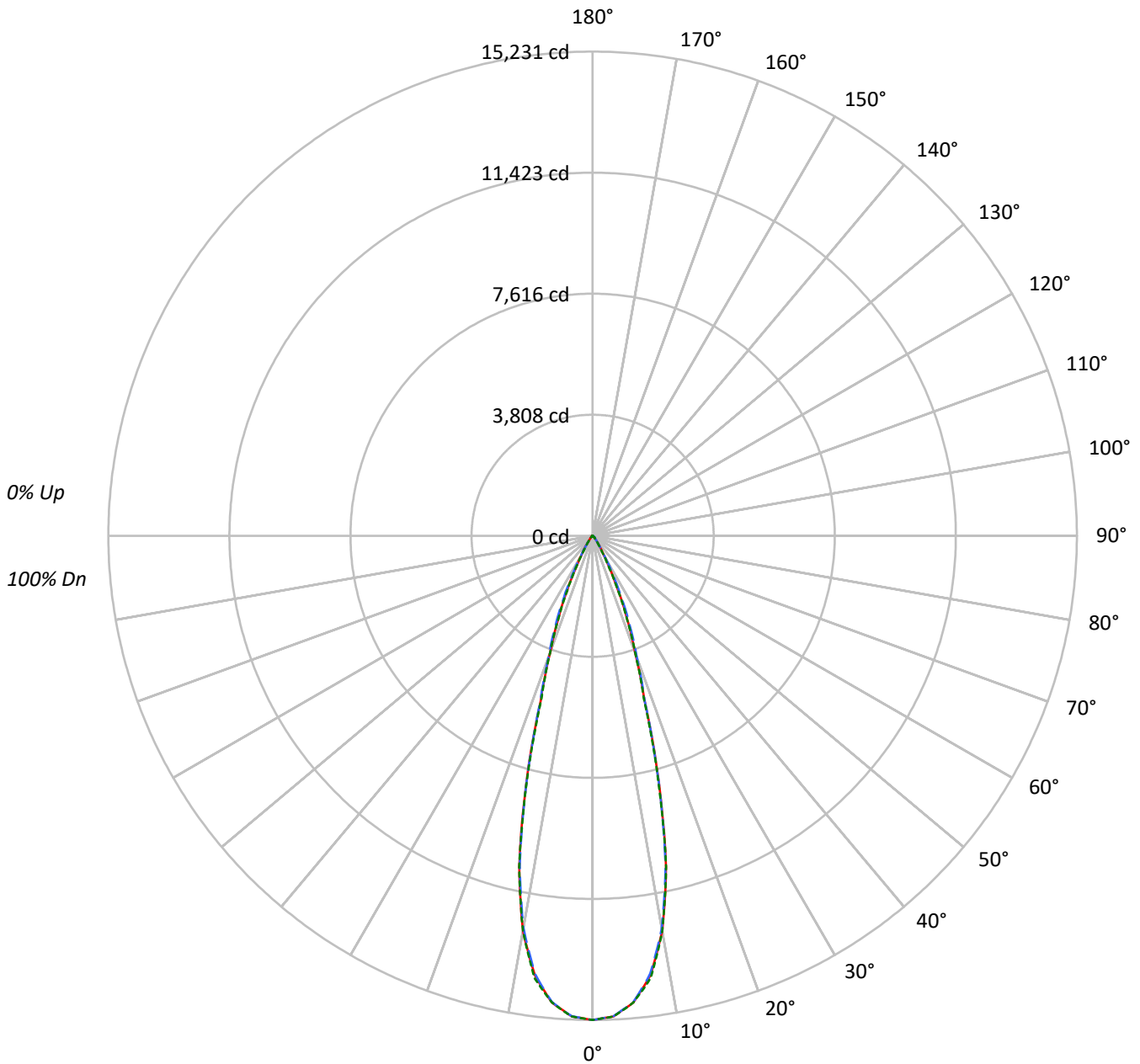
Lumens per Lamp: N/A
Luminaire Lumens: 4736.8 lumens
Efficiency: N/A
Efficacy: 81.4 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 58.2
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



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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						100													
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96						96													
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92						92													
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89						89													
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85						85													
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82						82													
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79						79													
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77						77													
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74						74													
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72						72													
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69						69													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1165855	1165855	1165855
5°	1132390	1131069	1132444
10°	980817	973908	980592
15°	639939	636500	633299
20°	318207	330148	317783
25°	160290	180753	157004
30°	64176	69930	55912
35°	29771	28509	23903
40°	12850	14269	12100
45°	9071	11247	9147
50°	3120	8193	3299
55°	1802	3390	1895
60°	1255	1485	1255
65°	815	815	815
70°	492	336	492
75°	0	207	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 11247 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1339.4	28.3
10°-20°	2157.1	45.5
20°-30°	932.1	19.7
30°-40°	212.4	4.5
40°-50°	72.9	1.5
50°-60°	17.8	0.4
60°-70°	4.6	0.1
70°-80°	0.5	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°	4428.5	93.5
0°-40°	4641.0	98.0
0°-60°	4731.8	99.9
0°-90°	4736.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4736.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15231	15231	15231	15231	15231	
5°	14738	14724	14721	14751	14738	1340
15°	8076	7978	8032	8006	7992	2162
25°	1898	1970	2140	1920	1859	908
35°	319	325	305	303	256	216
45°	84	104	104	104	84	59
55°	14	14	25	15	14	13
65°	4	4	4	4	4	4
75°	0	0	1	0	0	1
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°	15231.3	15231.3	15231.3	15231.3	15231.3
2.5°	15130.4	15119.9	15125.9	15133.4	15136.4
5°	14737.8	14723.6	14720.6	14751.2	14738.5
7.5°	13945.9	13925.7	13895.0	13964.6	14029.6
10°	12619.2	12596.8	12530.3	12563.2	12616.3
12.5°	10660.7	10588.2	10586.7	10691.4	10677.2
15°	8075.6	7978.4	8032.2	8006.0	7991.8
17.5°	5430.6	5393.2	5465.0	5443.3	5349.8
20°	3906.5	3916.3	4053.1	3984.3	3901.3
22.5°	2850.6	2885.8	3048.1	2870.8	2805.8
25°	1897.9	1969.7	2140.2	1919.6	1859.0
27.5°	1167.3	1200.2	1373.0	1152.4	1119.5
30°	726.1	709.7	791.2	679.0	632.6
32.5°	476.4	455.4	481.6	432.2	394.8
35°	318.6	325.3	305.1	302.9	255.8
37.5°	198.9	228.8	201.9	215.4	164.5
40°	128.6	166.0	142.8	157.8	121.1
42.5°	105.4	127.9	117.4	124.9	107.7
45°	83.8	103.9	103.9	103.9	84.5
47.5°	46.4	69.5	89.0	71.0	49.4
50°	26.2	35.1	68.8	36.6	27.7
52.5°	17.9	20.2	47.1	20.9	18.7
55°	13.5	14.2	25.4	15.0	14.2
57.5°	10.5	11.2	13.5	11.2	10.5
60°	8.2	8.2	9.7	9.0	8.2
62.5°	6.0	6.0	6.7	6.0	6.0
65°	4.5	4.5	4.5	4.5	4.5
67.5°	2.2	3.0	3.0	3.0	3.0
70°	2.2	1.5	1.5	1.5	2.2
72.5°	1.5	0.7	0.7	0.7	0.7
75°	0.0	0.0	0.7	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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