

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: P748320

Luminaire Tested: LD4D45BD010-EU4DR3040509027-4LBCSSQMW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P748320
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: LD4D45BD010-EU4DR3040509027-4LBCSSQMW
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

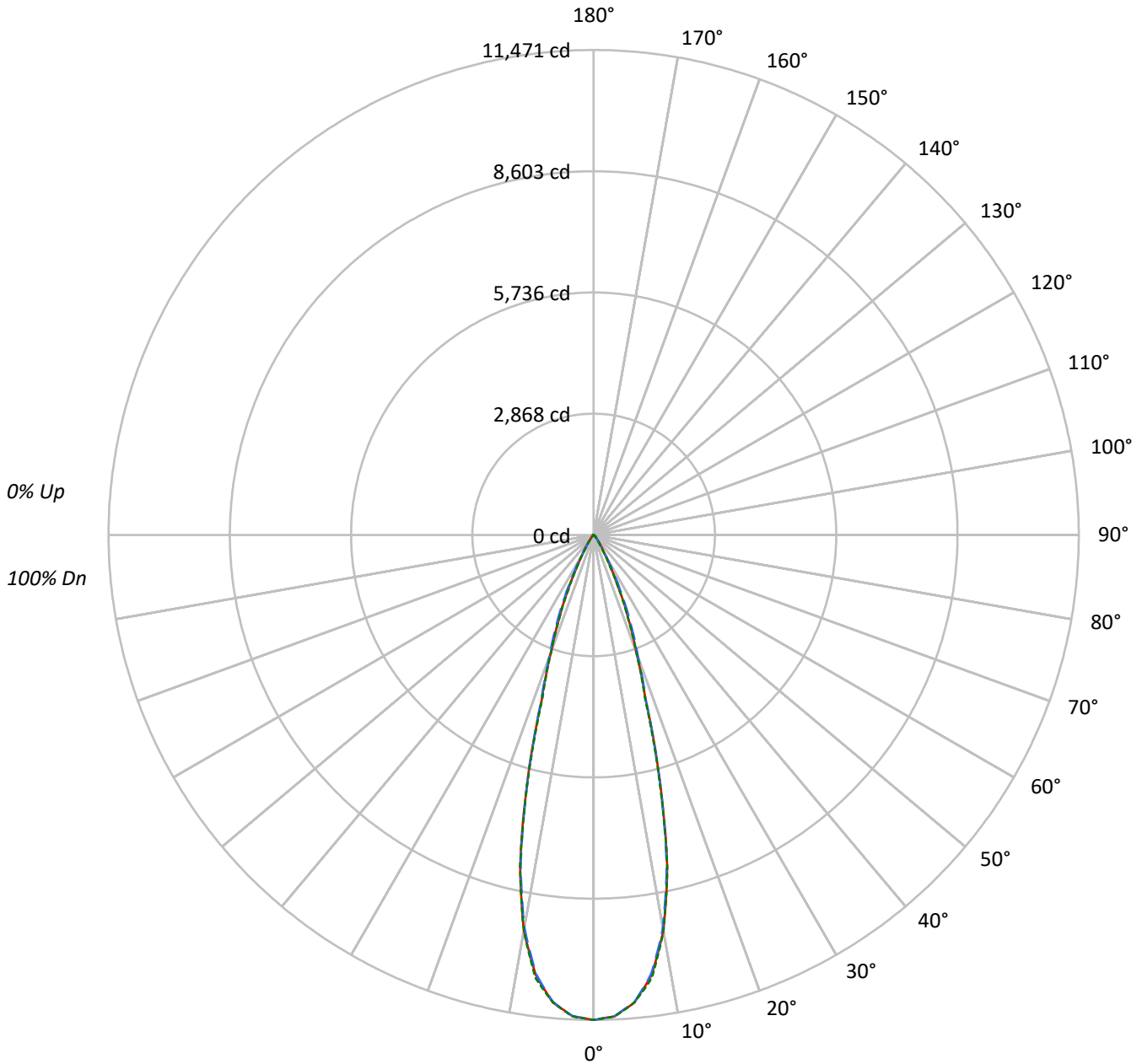
Lumens per Lamp: N/A
Luminaire Lumens: 3567.5 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 38.7
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°	878045	878045	878045
5°	852839	851848	852885
10°	738691	733483	738512
15°	481959	479368	476959
20°	239659	248644	239333
25°	120722	136135	118247
30°	48338	52668	42115
35°	22417	21473	17997
40°	9682	10751	9113
45°	6830	8476	6885
50°	2346	6168	2477
55°	1348	2549	1428
60°	949	1118	949
65°	616	616	616
70°	380	246	380
75°	0	177	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 8476 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1008.7	28.3
10°-20°	1624.6	45.5
20°-30°	702.0	19.7
30°-40°	160.0	4.5
40°-50°	54.9	1.5
50°-60°	13.4	0.4
60°-70°	3.5	0.1
70°-80°	0.4	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°	3335.3	93.5
0°-40°	3495.3	98.0
0°-60°	3563.7	99.9
0°-90°	3567.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3567.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11471	11471	11471	11471	11471	
5°	11100	11089	11087	11110	11100	1010
15°	6082	6009	6049	6030	6019	1629
25°	1429	1484	1612	1446	1400	684
35°	240	245	230	228	193	163
45°	63	78	78	78	64	45
55°	10	11	19	11	11	10
65°	3	3	3	3	3	3
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°	11471.2	11471.2	11471.2	11471.2	11471.2
2.5°	11395.2	11387.3	11391.8	11397.5	11399.7
5°	11099.5	11088.8	11086.6	11109.7	11100.1
7.5°	10503.1	10487.9	10464.8	10517.2	10566.2
10°	9504.0	9487.1	9437.0	9461.7	9501.7
12.5°	8029.0	7974.3	7973.2	8052.1	8041.4
15°	6082.0	6008.8	6049.3	6029.6	6018.9
17.5°	4090.0	4061.8	4115.9	4099.5	4029.1
20°	2942.2	2949.5	3052.5	3000.7	2938.2
22.5°	2146.9	2173.4	2295.6	2162.1	2113.1
25°	1429.4	1483.5	1611.9	1445.7	1400.1
27.5°	879.2	903.9	1034.0	867.9	843.1
30°	546.9	534.5	595.9	511.4	476.5
32.5°	358.8	343.0	362.7	325.5	297.4
35°	239.9	245.0	229.8	228.1	192.6
37.5°	149.8	172.3	152.1	162.2	123.9
40°	96.9	125.0	107.6	118.8	91.2
42.5°	79.4	96.3	88.4	94.1	81.1
45°	63.1	78.3	78.3	78.3	63.6
47.5°	34.9	52.4	67.0	53.5	37.2
50°	19.7	26.5	51.8	27.6	20.8
52.5°	13.5	15.2	35.5	15.8	14.1
55°	10.1	10.7	19.1	11.3	10.7
57.5°	7.9	8.4	10.1	8.4	7.9
60°	6.2	6.2	7.3	6.8	6.2
62.5°	4.5	4.5	5.1	4.5	4.5
65°	3.4	3.4	3.4	3.4	3.4
67.5°	1.7	2.3	2.3	2.3	2.3
70°	1.7	1.1	1.1	1.1	1.7
72.5°	1.1	0.6	0.6	0.6	0.6
75°	0.0	0.0	0.6	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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