

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: P745980

Luminaire Tested: LD4D30D010-EU4DR3020359027-4LBCSSQMW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P745980
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-EU4DR3020359027-4LBCSSQMW
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: 2313.3 lumens
Efficiency: N/A
Efficacy: 79.8 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

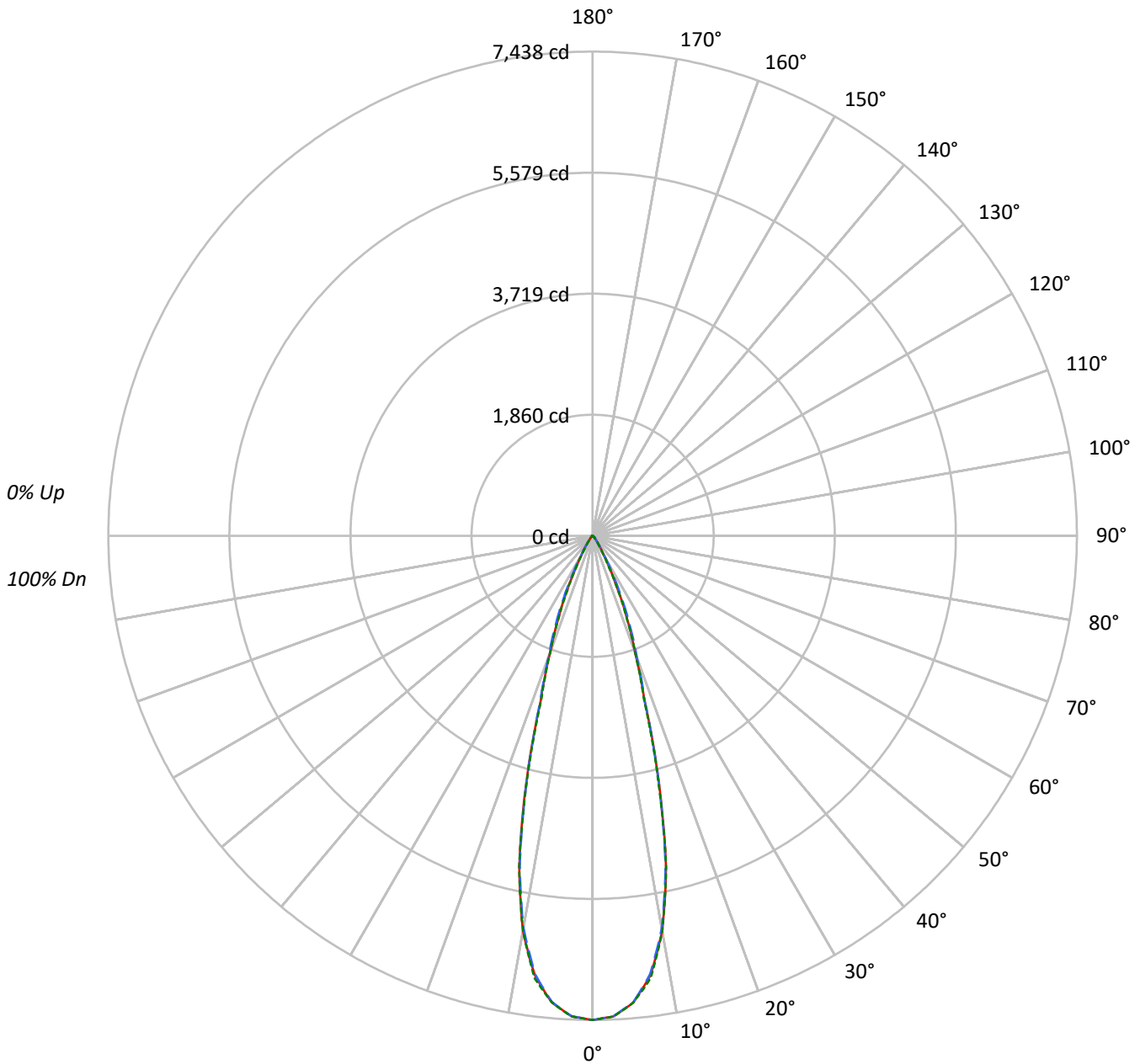


Downlight



TEST NUMBER: P745980
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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°	569368	569368	569368
5°	553026	552372	553049
10°	478999	475618	478882
15°	312521	310849	309280
20°	155401	161234	155198
25°	78283	88274	76678
30°	31341	34152	27302
35°	14540	13923	11671
40°	6275	6964	5915
45°	4427	5499	4471
50°	1524	4001	1608
55°	881	1655	921
60°	612	735	612
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: 5499 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	654.1	28.3
10°-20°	1053.4	45.5
20°-30°	455.2	19.7
30°-40°	103.8	4.5
40°-50°	35.6	1.5
50°-60°	8.7	0.4
60°-70°	2.2	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°	2162.8	93.5
0°-40°	2266.5	98.0
0°-60°	2310.9	99.9
0°-90°	2313.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2313.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7438	7438	7438	7438	7438	
5°	7198	7190	7189	7204	7198	655
15°	3944	3896	3923	3910	3903	1056
25°	927	962	1045	938	908	444
35°	156	159	149	148	125	106
45°	41	51	51	51	41	29
55°	7	7	12	7	7	6
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°	7438.5	7438.5	7438.5	7438.5	7438.5
2.5°	7389.2	7384.1	7387.0	7390.7	7392.1
5°	7197.5	7190.5	7189.0	7204.1	7197.8
7.5°	6810.7	6800.9	6785.9	6819.8	6851.6
10°	6162.8	6151.9	6119.3	6135.4	6161.3
12.5°	5206.3	5170.9	5170.2	5221.4	5214.4
15°	3943.8	3896.4	3922.7	3909.9	3902.9
17.5°	2652.1	2633.9	2668.9	2658.3	2612.7
20°	1907.8	1912.6	1979.4	1945.8	1905.3
22.5°	1392.2	1409.3	1488.6	1402.0	1370.3
25°	926.9	961.9	1045.2	937.5	907.9
27.5°	570.1	586.1	670.5	562.8	546.7
30°	354.6	346.6	386.4	331.6	308.9
32.5°	232.6	222.4	235.2	211.1	192.9
35°	155.6	158.9	149.0	147.9	124.9
37.5°	97.2	111.7	98.6	105.2	80.3
40°	62.8	81.1	69.7	77.1	59.2
42.5°	51.5	62.5	57.4	61.0	52.6
45°	40.9	50.8	50.8	50.8	41.3
47.5°	22.6	34.0	43.5	34.7	24.1
50°	12.8	17.2	33.6	17.9	13.5
52.5°	8.8	9.9	23.0	10.2	9.1
55°	6.6	6.9	12.4	7.3	6.9
57.5°	5.1	5.5	6.6	5.5	5.1
60°	4.0	4.0	4.8	4.4	4.0
62.5°	2.9	2.9	3.3	2.9	2.9
65°	2.2	2.2	2.2	2.2	2.2
67.5°	1.1	1.4	1.4	1.4	1.4
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

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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