

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: P745993

Luminaire Tested: LD4D30D010-EU4DR3020359030-4LBCSSQMW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P745993
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-EU4DR3020359030-4LBCSSQMW
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2388.6 lumens
Efficiency: N/A
Efficacy: 82.4 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): 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

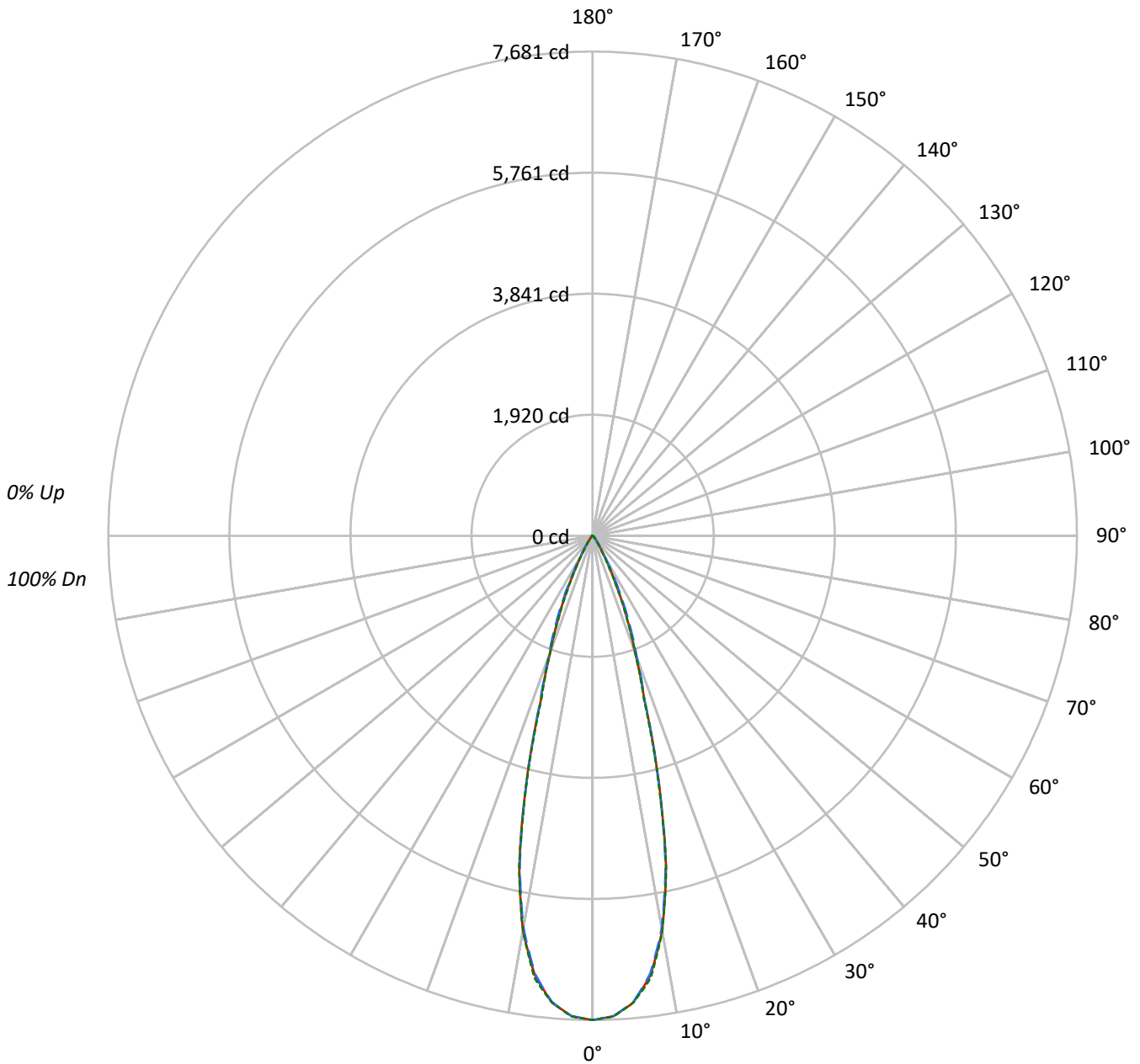


Downlight



TEST NUMBER: P745993
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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°	587907	587907	587907
5°	571028	570360	571051
10°	494598	491108	494481
15°	322696	320968	319352
20°	160460	166479	160248
25°	80833	91154	79178
30°	32366	35257	28195
35°	15016	14371	12054
40°	6485	7194	6105
45°	4568	5672	4611
50°	1572	4132	1667
55°	907	1708	961
60°	628	750	628
65°	398	398	398
70°	246	157	246
75°	0	118	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 5672 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	675.4	28.3
10°-20°	1087.7	45.5
20°-30°	470.0	19.7
30°-40°	107.1	4.5
40°-50°	36.8	1.5
50°-60°	9.0	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°	2233.2	93.5
0°-40°	2340.3	98.0
0°-60°	2386.1	99.9
0°-90°	2388.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2388.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7681	7681	7681	7681	7681	
5°	7432	7425	7423	7439	7432	676
15°	4072	4023	4050	4037	4030	1090
25°	957	993	1079	968	938	458
35°	161	164	154	153	129	109
45°	42	52	52	52	43	30
55°	7	7	13	8	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°	7680.7	7680.7	7680.7	7680.7	7680.7
2.5°	7629.8	7624.5	7627.5	7631.2	7632.8
5°	7431.8	7424.6	7423.1	7438.6	7432.1
7.5°	7032.5	7022.3	7006.8	7041.9	7074.7
10°	6363.5	6352.2	6318.6	6335.2	6362.0
12.5°	5375.9	5339.3	5338.5	5391.4	5384.2
15°	4072.2	4023.2	4050.4	4037.2	4030.0
17.5°	2738.5	2719.6	2755.8	2744.9	2697.7
20°	1969.9	1974.8	2043.8	2009.2	1967.3
22.5°	1437.5	1455.2	1537.1	1447.7	1414.8
25°	957.1	993.3	1079.3	968.0	937.5
27.5°	588.6	605.3	692.4	581.1	564.5
30°	366.2	357.9	398.9	342.4	319.0
32.5°	240.2	229.6	242.9	218.0	199.1
35°	160.7	164.0	153.8	152.7	129.0
37.5°	100.3	115.4	101.8	108.6	83.0
40°	64.9	83.7	72.0	79.6	61.1
42.5°	53.2	64.5	59.2	63.0	54.3
45°	42.2	52.4	52.4	52.4	42.6
47.5°	23.4	35.1	44.9	35.8	24.9
50°	13.2	17.7	34.7	18.4	14.0
52.5°	9.1	10.2	23.8	10.5	9.5
55°	6.8	7.2	12.8	7.6	7.2
57.5°	5.3	5.7	6.8	5.7	5.3
60°	4.1	4.1	4.9	4.5	4.1
62.5°	3.0	3.0	3.4	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	0.4	0.4	0.4	0.4
75°	0.0	0.0	0.4	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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