

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: P745967

Luminaire Tested: LD4D30D010-EU4DR3020359024-4LBCSSQMW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P745967
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-EU4DR3020359024-4LBCSSQMW
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2083.9 lumens
Efficiency: N/A
Efficacy: 71.9 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 (A_{in}): 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



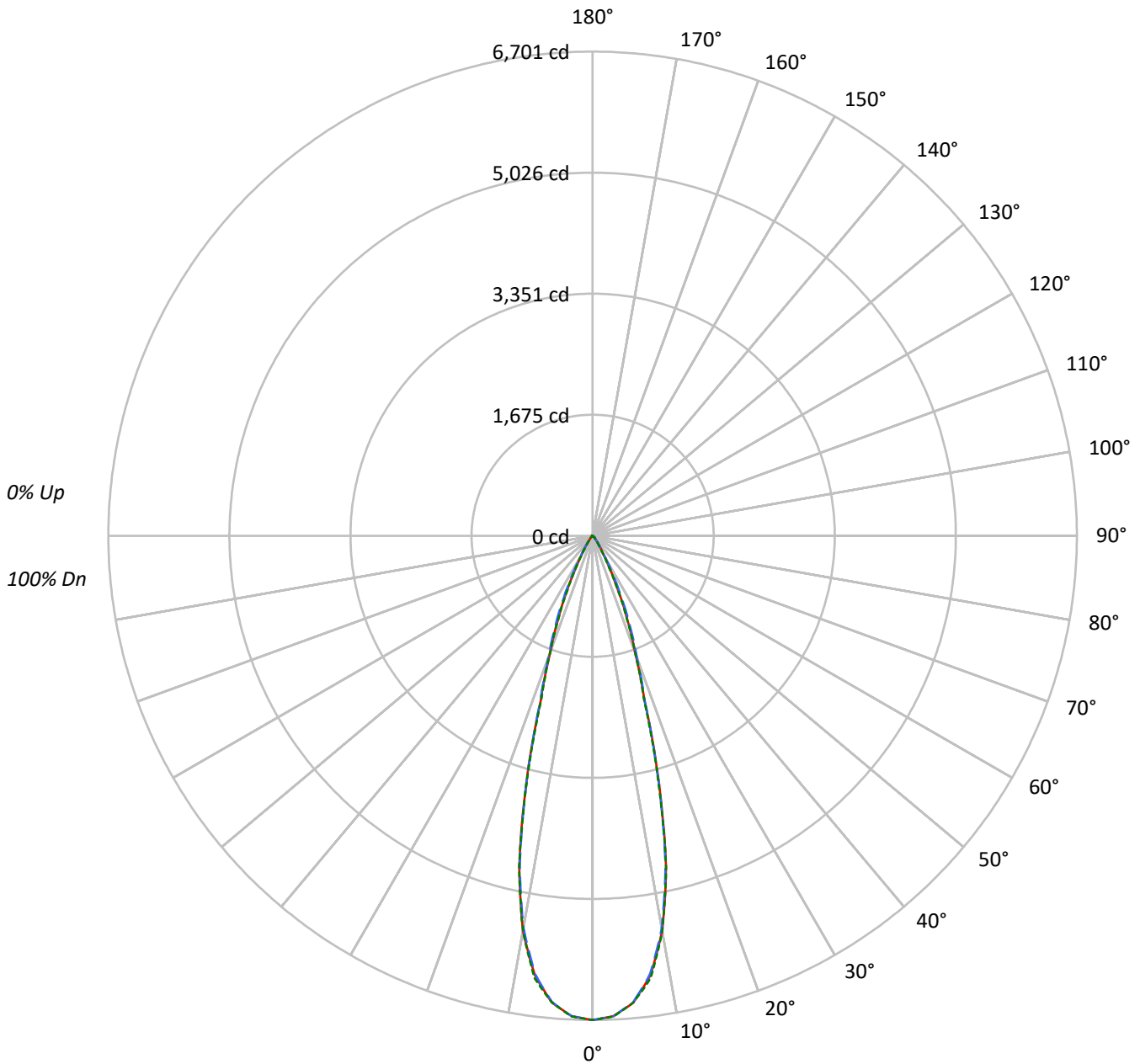
Downlight



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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°	512910	512910	512910
5°	498180	497604	498211
10°	431501	428455	431400
15°	281537	280023	278612
20°	139990	145244	139803
25°	70521	79524	69077
30°	28239	30767	24597
35°	13091	12540	10512
40°	5655	6285	5326
45°	3984	4947	4027
50°	1369	3608	1441
55°	787	1495	827
60°	551	658	551
65°	344	344	344
70°	224	134	224
75°	0	89	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 4947 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	589.2	28.3
10°-20°	949.0	45.5
20°-30°	410.1	19.7
30°-40°	93.5	4.5
40°-50°	32.1	1.5
50°-60°	7.8	0.4
60°-70°	2.0	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°	1948.3	93.5
0°-40°	2041.8	98.0
0°-60°	2081.7	99.9
0°-90°	2083.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2083.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6701	6701	6701	6701	6701	
5°	6484	6478	6476	6490	6484	590
15°	3553	3510	3534	3522	3516	951
25°	835	867	942	844	818	400
35°	140	143	134	133	112	95
45°	37	46	46	46	37	26
55°	6	6	11	7	6	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°	6700.9	6700.9	6700.9	6700.9	6700.9
2.5°	6656.4	6651.8	6654.5	6657.7	6659.1
5°	6483.7	6477.5	6476.2	6489.6	6484.1
7.5°	6135.3	6126.4	6113.0	6143.6	6172.2
10°	5551.7	5541.8	5512.5	5527.0	5550.4
12.5°	4690.1	4658.1	4657.5	4703.6	4697.3
15°	3552.8	3510.0	3533.7	3522.2	3515.9
17.5°	2389.1	2372.7	2404.3	2394.7	2353.6
20°	1718.6	1722.9	1783.1	1752.9	1716.3
22.5°	1254.1	1269.5	1341.0	1263.0	1234.4
25°	835.0	866.6	941.6	844.5	817.9
27.5°	513.5	528.0	604.0	506.9	492.5
30°	319.5	312.2	348.1	298.7	278.3
32.5°	209.6	200.4	211.9	190.2	173.7
35°	140.1	143.1	134.2	133.3	112.5
37.5°	87.5	100.7	88.8	94.8	72.4
40°	56.6	73.1	62.9	69.4	53.3
42.5°	46.4	56.3	51.6	54.9	47.4
45°	36.8	45.7	45.7	45.7	37.2
47.5°	20.4	30.6	39.1	31.2	21.7
50°	11.5	15.5	30.3	16.1	12.1
52.5°	7.9	8.9	20.7	9.2	8.3
55°	5.9	6.2	11.2	6.6	6.2
57.5°	4.6	4.9	5.9	4.9	4.6
60°	3.6	3.6	4.3	4.0	3.6
62.5°	2.6	2.6	3.0	2.6	2.6
65°	1.9	1.9	1.9	1.9	1.9
67.5°	1.0	1.3	1.3	1.3	1.3
70°	1.0	0.6	0.6	0.6	1.0
72.5°	0.6	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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