

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: P746019

Luminaire Tested: LD4D30D010-EU4DR3020359040-4LBCSSQMW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P746019  
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-EU4DR3020359040-4LBCSSQMW  
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2591.4 lumens  
Efficiency: N/A  
Efficacy: 89.4 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



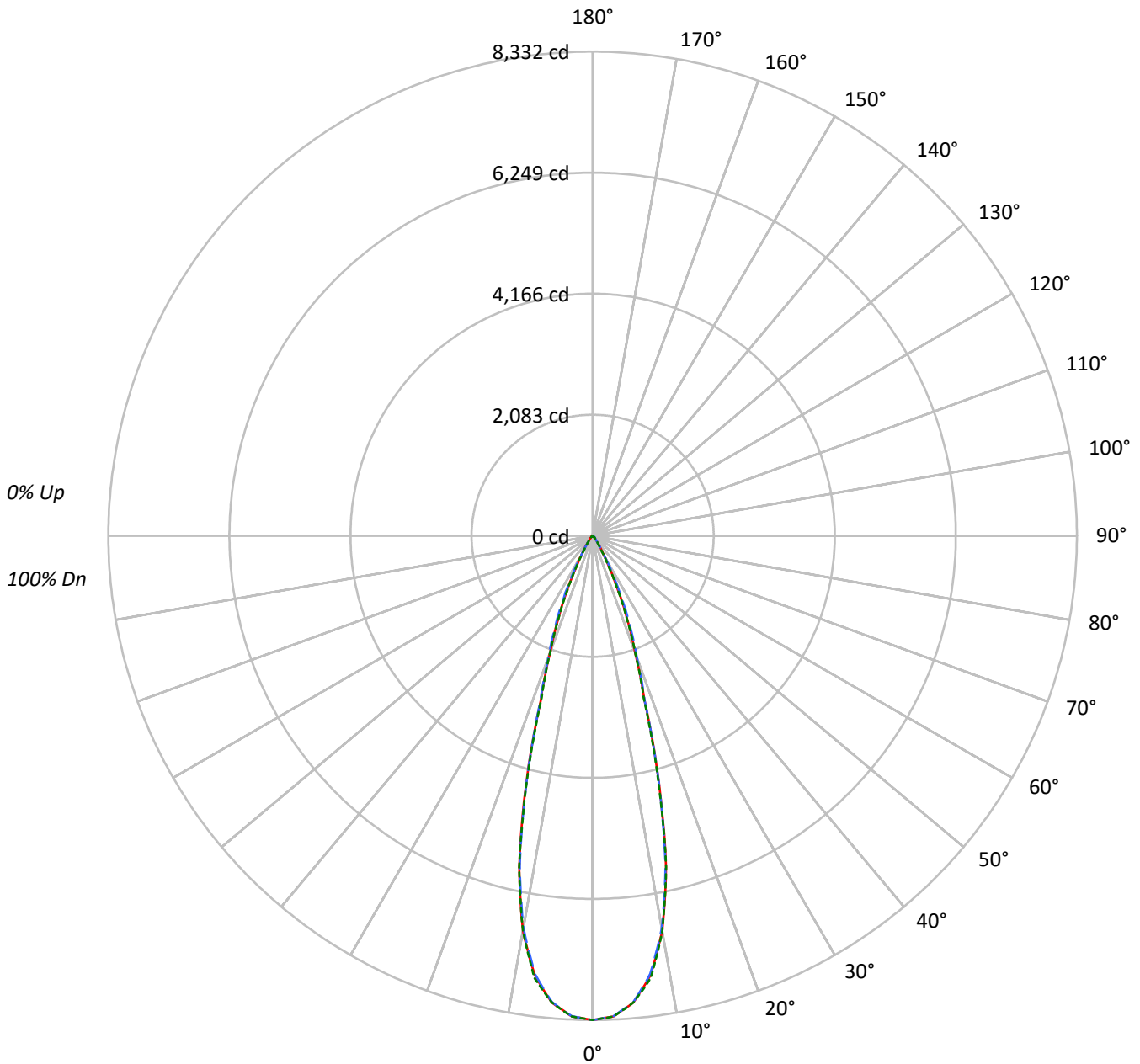
Downlight



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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																			
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°	637798	637798	637798
5°	619488	618766	619519
10°	536569	532784	536445
15°	350090	348204	346453
20°	174079	180612	173843
25°	87691	98881	85892
30°	35106	38253	30590
35°	16287	15596	13073
40°	7034	7814	6625
45°	4958	6149	5001
50°	1703	4477	1798
55°	988	1855	1041
60°	689	811	689
65°	453	453	453
70°	269	179	269
75°	0	118	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 6149 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	732.7	28.3
10°-20°	1180.0	45.5
20°-30°	509.9	19.7
30°-40°	116.2	4.5
40°-50°	39.9	1.5
50°-60°	9.8	0.4
60°-70°	2.6	0.1
70°-80°	0.3	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°	2422.7	93.5
0°-40°	2538.9	98.0
0°-60°	2588.6	99.9
0°-90°	2591.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2591.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8332	8332	8332	8332	8332	
5°	8062	8055	8053	8070	8063	733
15°	4418	4365	4394	4380	4372	1183
25°	1038	1078	1171	1050	1017	497
35°	174	178	167	166	140	118
45°	46	57	57	57	46	33
55°	7	8	14	8	8	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°	8332.5	8332.5	8332.5	8332.5	8332.5
2.5°	8277.2	8271.5	8274.8	8278.9	8280.5
5°	8062.5	8054.7	8053.1	8069.8	8062.9
7.5°	7629.2	7618.2	7601.5	7639.5	7675.1
10°	6903.5	6891.2	6854.8	6872.8	6901.9
12.5°	5832.1	5792.4	5791.6	5848.9	5841.1
15°	4417.9	4364.7	4394.1	4379.8	4372.0
17.5°	2970.9	2950.4	2989.7	2977.8	2926.7
20°	2137.1	2142.4	2217.3	2179.7	2134.2
22.5°	1559.5	1578.7	1667.5	1570.5	1534.9
25°	1038.3	1077.5	1170.8	1050.2	1017.0
27.5°	638.6	656.6	751.1	630.4	612.4
30°	397.2	388.2	432.8	371.4	346.1
32.5°	260.6	249.1	263.4	236.5	216.0
35°	174.3	178.0	166.9	165.7	139.9
37.5°	108.8	125.2	110.5	117.8	90.0
40°	70.4	90.8	78.2	86.3	66.3
42.5°	57.7	70.0	64.2	68.3	58.9
45°	45.8	56.8	56.8	56.8	46.2
47.5°	25.4	38.0	48.7	38.8	27.0
50°	14.3	19.3	37.6	20.1	15.1
52.5°	9.8	11.1	25.8	11.5	10.3
55°	7.4	7.8	13.9	8.2	7.8
57.5°	5.7	6.1	7.4	6.1	5.7
60°	4.5	4.5	5.3	4.9	4.5
62.5°	3.3	3.3	3.7	3.3	3.3
65°	2.5	2.5	2.5	2.5	2.5
67.5°	1.2	1.7	1.7	1.7	1.7
70°	1.2	0.8	0.8	0.8	1.2
72.5°	0.8	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

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Scaled Data Report



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Scaled Data Report







— 0°-180°    - - 45°-225°    - - - - 90°-270°

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(END OF REPORT)