

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: P746032

Luminaire Tested: LD4D30D010-EU4DR3020359050-4LBCSSQMW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P746032  
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-EU4DR3020359050-4LBCSSQMW  
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2560.8 lumens  
Efficiency: N/A  
Efficacy: 88.3 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

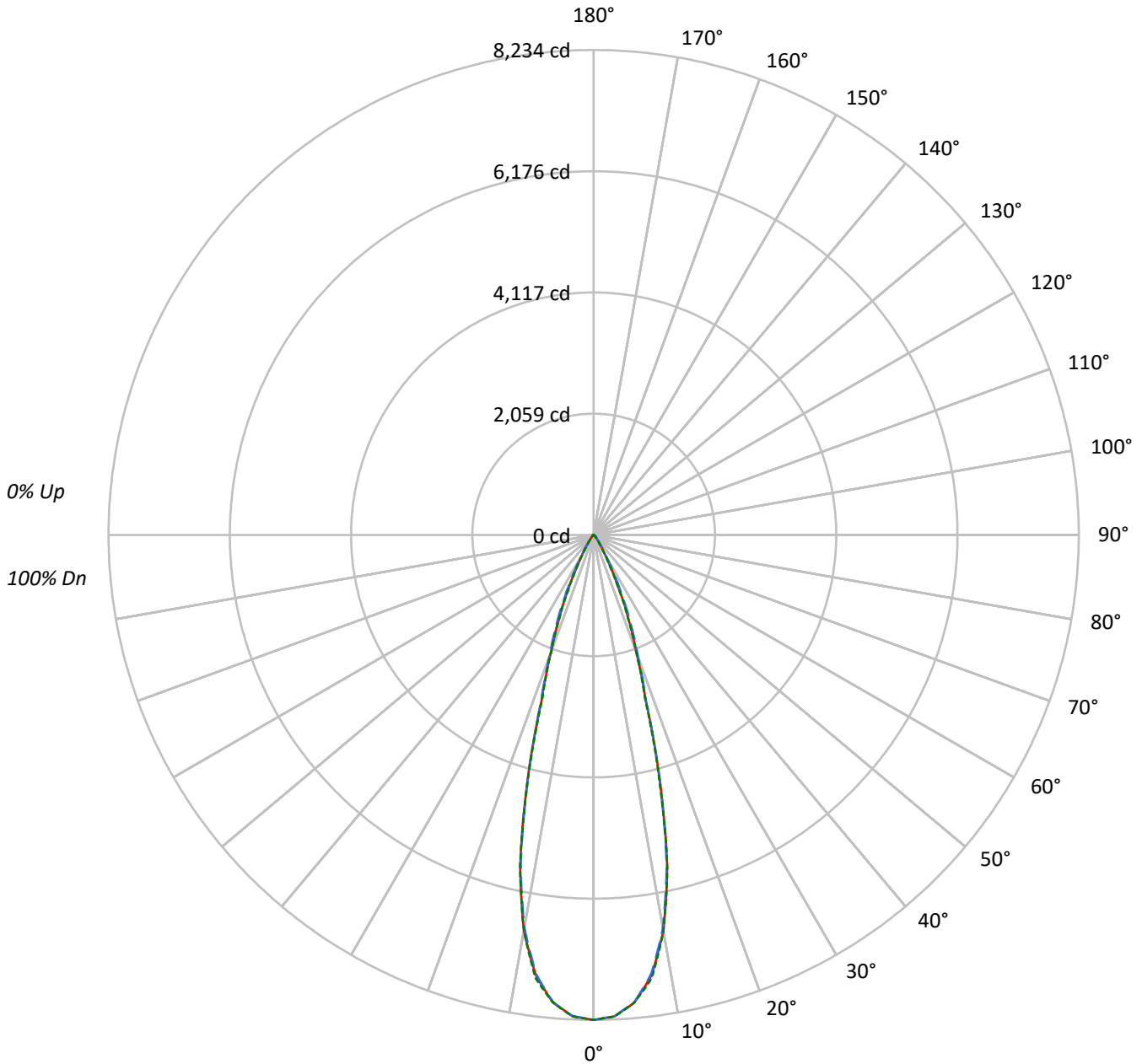


Downlight



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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°	630274	630274	630274
5°	612181	611467	612212
10°	530242	526504	530118
15°	345962	344099	342372
20°	172026	178478	171798
25°	86652	97716	84879
30°	34691	37802	30228
35°	16091	15418	12923
40°	6954	7714	6545
45°	4904	6084	4947
50°	1691	4430	1786
55°	974	1842	1028
60°	689	811	689
65°	435	435	435
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: 6084 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	724.1	28.3
10°-20°	1166.1	45.5
20°-30°	503.9	19.7
30°-40°	114.8	4.5
40°-50°	39.4	1.5
50°-60°	9.7	0.4
60°-70°	2.5	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°	2394.1	93.5
0°-40°	2509.0	98.0
0°-60°	2558.1	99.9
0°-90°	2560.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2560.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8234	8234	8234	8234	8234	
5°	7967	7960	7958	7975	7968	725
15°	4366	4313	4342	4328	4320	1169
25°	1026	1065	1157	1038	1005	491
35°	172	176	165	164	138	117
45°	45	56	56	56	46	32
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	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	8234.2	8234.2	8234.2	8234.2	8234.2
2.5°	8179.7	8174.0	8177.2	8181.3	8182.9
5°	7967.4	7959.7	7958.1	7974.7	7967.8
7.5°	7539.3	7528.4	7511.8	7549.4	7584.6
10°	6822.1	6810.0	6774.0	6791.8	6820.5
12.5°	5763.3	5724.1	5723.3	5779.9	5772.2
15°	4365.8	4313.2	4342.3	4328.1	4320.5
17.5°	2935.9	2915.6	2954.4	2942.7	2892.2
20°	2111.9	2117.2	2191.1	2154.0	2109.1
22.5°	1541.1	1560.1	1647.8	1552.0	1516.8
25°	1026.0	1064.8	1157.0	1037.8	1005.0
27.5°	631.0	648.9	742.3	623.0	605.2
30°	392.5	383.6	427.7	367.1	342.0
32.5°	257.5	246.2	260.3	233.6	213.5
35°	172.2	175.8	165.0	163.7	138.3
37.5°	107.5	123.7	109.1	116.4	88.9
40°	69.6	89.7	77.2	85.3	65.5
42.5°	57.0	69.2	63.5	67.5	58.2
45°	45.3	56.2	56.2	56.2	45.7
47.5°	25.0	37.6	48.1	38.4	26.7
50°	14.2	19.0	37.2	19.8	15.0
52.5°	9.7	10.9	25.5	11.3	10.1
55°	7.3	7.7	13.8	8.1	7.7
57.5°	5.7	6.1	7.3	6.1	5.7
60°	4.5	4.5	5.3	4.9	4.5
62.5°	3.2	3.2	3.7	3.2	3.2
65°	2.4	2.4	2.4	2.4	2.4
67.5°	1.2	1.6	1.6	1.6	1.6
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







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

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(END OF REPORT)