

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: P745733

Luminaire Tested: LD4D30D010-EU4DR1515309024-4LBCSSQMW

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P745733  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-21)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D30D010-EU4DR1515309024-4LBCSSQMW  
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2222.6 lumens  
Efficiency: N/A  
Efficacy: 76.6 lumens/watt  
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.23  
Luminous Opening: Vertical Cylinder (Dia: 0.35' x H: 0.35')  
CIE Type: Direct

Input Watts (W): 29  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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



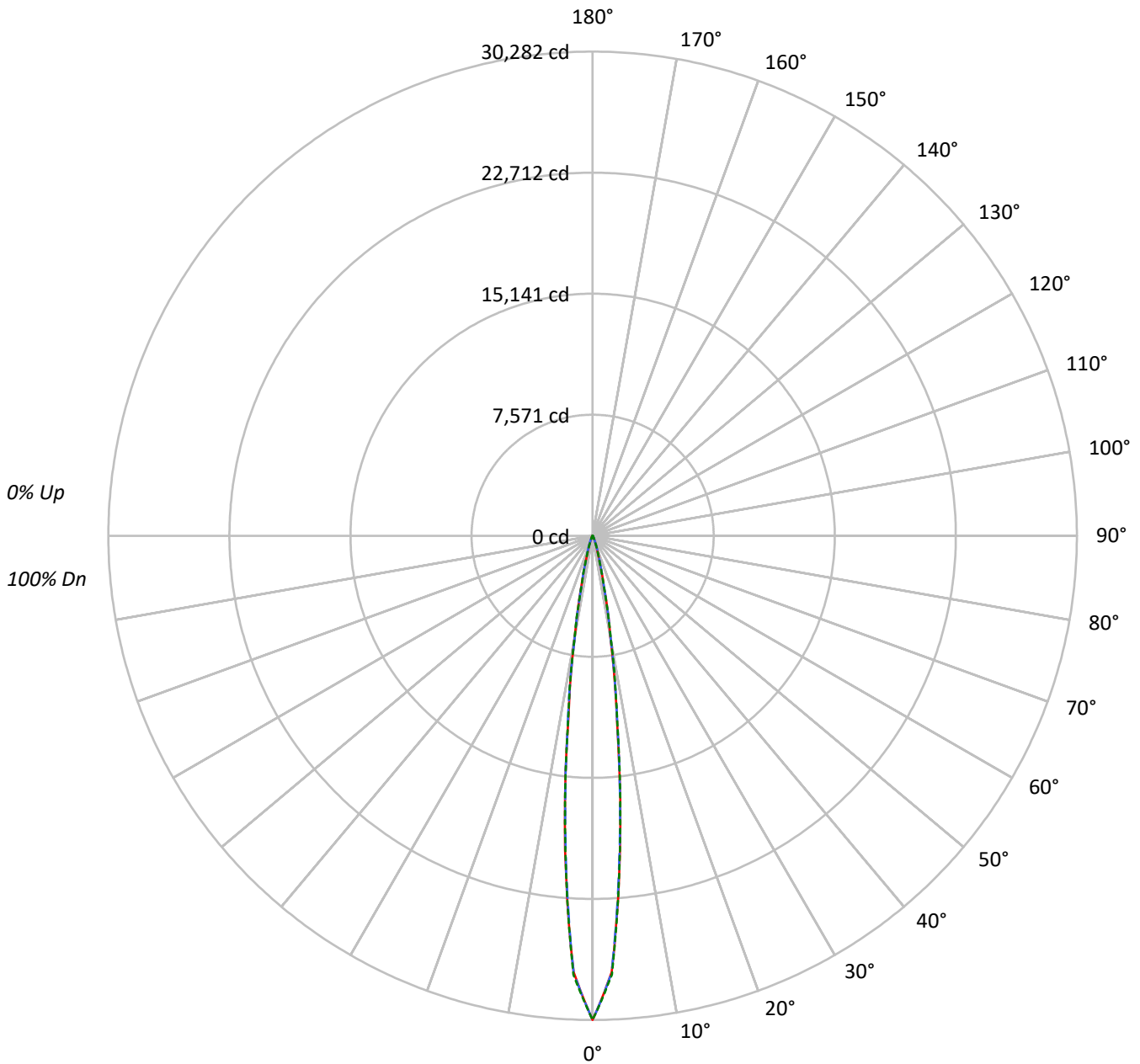
Downlight



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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						100													
1	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98						98													
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	98	98	96						96													
3	110	106	103	101	108	105	102	100	103	100	99	100	99	97	98	97	96	94						94													
4	108	103	100	98	106	102	99	97	100	98	96	99	97	95	97	95	94	93						93													
5	106	101	98	95	104	100	97	95	98	96	94	97	95	93	96	94	92	92						92													
6	104	99	95	93	102	98	95	93	97	94	92	96	93	92	95	93	91	90						90													
7	102	97	94	91	101	96	93	91	95	93	91	94	92	90	93	91	90	89						89													
8	100	95	92	90	99	95	92	90	94	91	89	93	91	89	92	90	89	88						88													
9	99	93	90	88	98	93	90	88	92	90	88	92	89	88	91	89	88	87						87													
10	97	92	89	87	96	92	89	87	91	89	87	91	88	87	90	88	86	86						86													

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3407318	3407318	3407318
5°	2002303	1976367	1992008
10°	597588	601778	610987
15°	148647	151539	146866
20°	44471	51499	45420
25°	15681	19974	15876
30°	5758	7585	5856
35°	2883	3261	2796
40°	1818	2003	1818
45°	1344	1435	1344
50°	1071	1071	1071
55°	891	891	891
60°	723	723	723
65°	550	550	550
70°	468	468	468
75°	287	287	385
80°	205	205	205
85°	108	108	108

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 1435 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1441.5	64.9
10°-20°	592.9	26.7
20°-30°	117.8	5.3
30°-40°	29.4	1.3
40°-50°	15.5	0.7
50°-60°	11.5	0.5
60°-70°	8.1	0.4
70°-80°	4.6	0.2
80°-90°	1.4	0.1
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°	2152.2	96.8
0°-40°	2181.6	98.2
0°-60°	2208.5	99.4
0°-90°	2222.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2222.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	30282	30282	30282	30282	30282	
5°	19702	19500	19447	19582	19601	1439
15°	1711	1743	1745	1714	1691	587
25°	201	228	256	227	204	106
35°	40	42	45	42	38	27
45°	19	19	20	19	19	15
55°	13	13	13	13	13	11
65°	8	8	8	8	8	8
75°	4	4	4	4	5	5
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	30281.9	30281.9	30281.9	30281.9	30281.9
2.5°	27315.5	27338.5	27347.5	27374.4	27474.4
5°	19702.1	19499.5	19446.9	19581.5	19600.8
7.5°	11670.7	11711.8	11861.7	11895.1	11774.6
10°	6404.5	6457.1	6449.4	6495.6	6548.1
12.5°	3275.3	3234.3	3221.5	3274.1	3201.0
15°	1711.4	1743.4	1744.7	1713.9	1690.9
17.5°	920.4	957.6	1019.1	969.1	892.2
20°	543.5	576.9	629.4	588.4	555.1
22.5°	335.9	362.8	400.0	367.9	341.0
25°	201.3	228.2	256.4	226.9	203.8
27.5°	119.2	142.3	160.2	141.0	117.9
30°	76.9	89.7	101.3	88.5	78.2
32.5°	53.8	59.0	64.1	59.0	53.8
35°	39.7	42.3	44.9	42.3	38.5
37.5°	30.8	33.3	34.6	32.0	29.5
40°	25.6	26.9	28.2	26.9	25.6
42.5°	21.8	23.1	23.1	23.1	21.8
45°	19.2	19.2	20.5	19.2	19.2
47.5°	16.7	16.7	17.9	16.7	16.7
50°	15.4	15.4	15.4	15.4	15.4
52.5°	14.1	14.1	14.1	14.1	14.1
55°	12.8	12.8	12.8	12.8	12.8
57.5°	11.5	11.5	11.5	11.5	11.5
60°	10.3	10.3	10.3	10.3	10.3
62.5°	9.0	9.0	9.0	9.0	9.0
65°	7.7	7.7	7.7	7.7	7.7
67.5°	7.7	7.7	7.7	7.7	7.7
70°	6.4	6.4	6.4	6.4	6.4
72.5°	5.1	5.1	5.1	5.1	5.1
75°	3.8	3.8	3.8	3.8	5.1
77.5°	3.8	3.8	3.8	3.8	3.8
80°	2.6	2.6	2.6	2.6	2.6
82.5°	2.6	2.6	2.6	2.6	2.6
85°	1.3	1.3	1.3	1.3	1.3
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)