

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: P745759

Luminaire Tested: LD4D30D010-EU4DR1515309030-4LBCSSQMW

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P745759  
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-EU4DR1515309030-4LBCSSQMW  
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2547.5 lumens  
Efficiency: N/A  
Efficacy: 87.8 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 (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

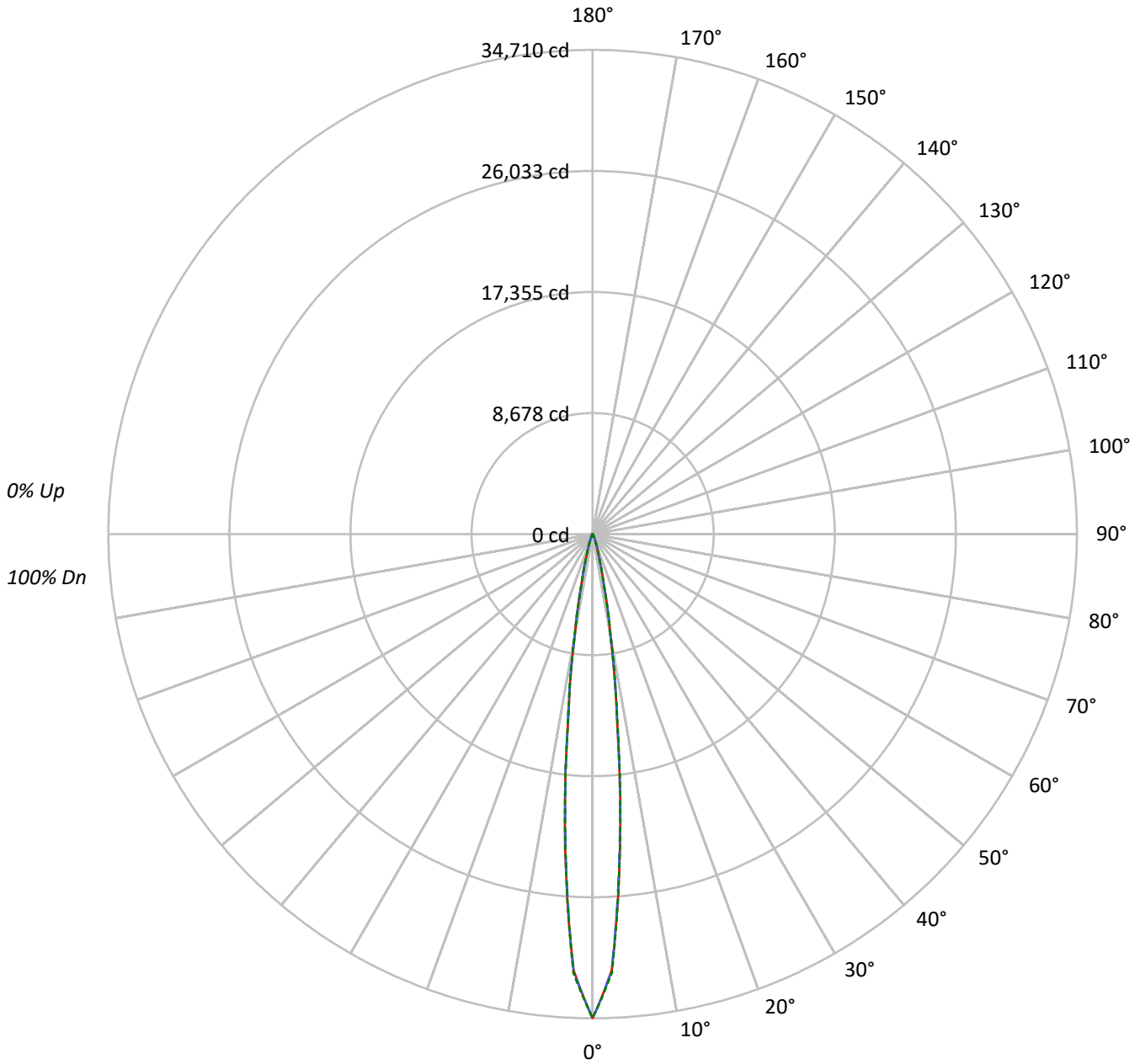


Downlight



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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						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°	3905534	3905534	3905534
5°	2295075	2265359	2283276
10°	684971	689767	700329
15°	170378	173696	168337
20°	50976	59035	52056
25°	17972	22895	18198
30°	6605	8694	6709
35°	3311	3733	3203
40°	2088	2294	2088
45°	1540	1645	1540
50°	1224	1224	1224
55°	1023	1023	1023
60°	828	828	828
65°	628	628	628
70°	534	534	534
75°	333	333	446
80°	229	229	229
85°	125	125	125

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 1645 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1652.3	64.9
10°-20°	679.6	26.7
20°-30°	135.0	5.3
30°-40°	33.7	1.3
40°-50°	17.7	0.7
50°-60°	13.1	0.5
60°-70°	9.3	0.4
70°-80°	5.3	0.2
80°-90°	1.6	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°	2466.9	96.8
0°-40°	2500.6	98.2
0°-60°	2531.4	99.4
0°-90°	2547.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2547.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	34710	34710	34710	34710	34710	
5°	22583	22351	22290	22445	22467	1649
15°	1962	1998	2000	1965	1938	673
25°	231	262	294	260	234	121
35°	46	48	51	48	44	31
45°	22	22	24	22	22	17
55°	15	15	15	15	15	13
65°	9	9	9	9	9	9
75°	4	4	4	4	6	5
85°	2	2	2	2	2	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	34709.7	34709.7	34709.7	34709.7	34709.7
2.5°	31309.5	31336.0	31346.3	31377.1	31491.7
5°	22582.9	22350.7	22290.5	22444.8	22466.8
7.5°	13377.2	13424.3	13596.2	13634.4	13496.3
10°	7341.0	7401.3	7392.4	7445.3	7505.6
12.5°	3754.3	3707.2	3692.6	3752.8	3669.0
15°	1961.6	1998.4	1999.8	1964.6	1938.1
17.5°	1055.0	1097.6	1168.2	1110.9	1022.7
20°	623.0	661.2	721.5	674.4	636.2
22.5°	385.0	415.8	458.4	421.7	390.9
25°	230.7	261.5	293.9	260.1	233.6
27.5°	136.7	163.1	183.7	161.6	135.2
30°	88.2	102.9	116.1	101.4	89.6
32.5°	61.7	67.6	73.5	67.6	61.7
35°	45.6	48.5	51.4	48.5	44.1
37.5°	35.3	38.2	39.7	36.7	33.8
40°	29.4	30.9	32.3	30.9	29.4
42.5°	25.0	26.4	26.4	26.4	25.0
45°	22.0	22.0	23.5	22.0	22.0
47.5°	19.1	19.1	20.6	19.1	19.1
50°	17.6	17.6	17.6	17.6	17.6
52.5°	16.2	16.2	16.2	16.2	16.2
55°	14.7	14.7	14.7	14.7	14.7
57.5°	13.2	13.2	13.2	13.2	13.2
60°	11.8	11.8	11.8	11.8	11.8
62.5°	10.3	10.3	10.3	10.3	10.3
65°	8.8	8.8	8.8	8.8	8.8
67.5°	8.8	8.8	8.8	8.8	8.8
70°	7.3	7.3	7.3	7.3	7.3
72.5°	5.9	5.9	5.9	5.9	5.9
75°	4.4	4.4	4.4	4.4	5.9
77.5°	4.4	4.4	4.4	4.4	4.4
80°	2.9	2.9	2.9	2.9	2.9
82.5°	2.9	2.9	2.9	2.9	2.9
85°	1.5	1.5	1.5	1.5	1.5
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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