

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: P745754

Luminaire Tested: LD4D30D010-EU4DR1515309027-4LBS1MW

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P745754  
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-EU4DR1515309027-4LBS1MW  
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2619.5 lumens  
Efficiency: N/A  
Efficacy: 90.3 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



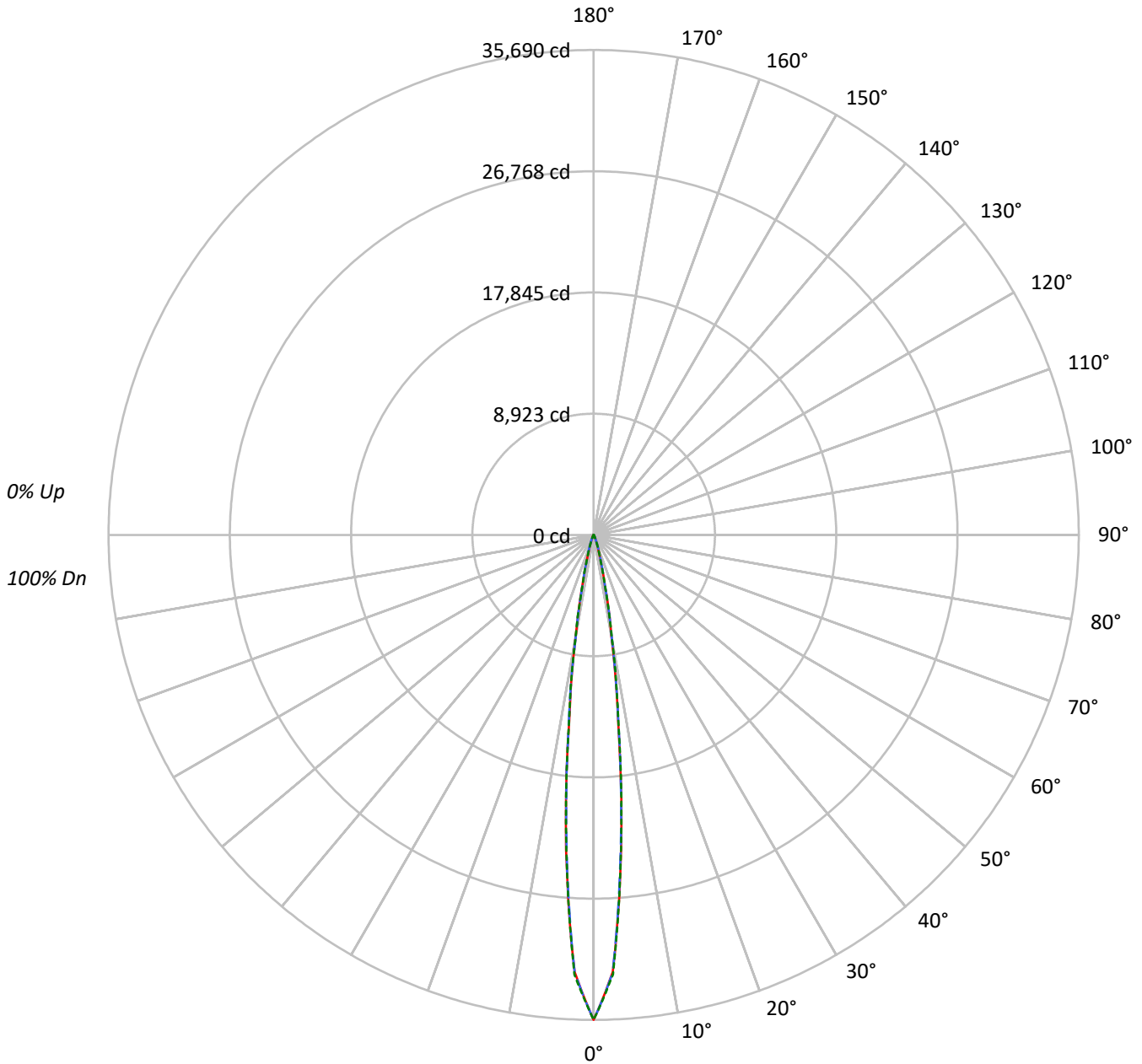
Downlight



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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°	4015893	4015893	4015893
5°	2359925	2329375	2347800
10°	704332	709259	720120
15°	175199	178604	173097
20°	52416	60704	53528
25°	18478	23542	18712
30°	6792	8941	6904
35°	3399	3842	3290
40°	2145	2358	2145
45°	1589	1694	1589
50°	1259	1259	1259
55°	1051	1051	1051
60°	850	850	850
65°	649	649	649
70°	556	556	556
75°	340	340	454
80°	236	236	236
85°	125	125	125

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 1694 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1698.9	64.9
10°-20°	698.8	26.7
20°-30°	138.8	5.3
30°-40°	34.6	1.3
40°-50°	18.2	0.7
50°-60°	13.5	0.5
60°-70°	9.6	0.4
70°-80°	5.4	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°	2536.6	96.8
0°-40°	2571.2	98.2
0°-60°	2602.9	99.4
0°-90°	2619.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2619.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	35690	35690	35690	35690	35690	
5°	23221	22982	22920	23079	23102	1696
15°	2017	2055	2056	2020	1993	692
25°	237	269	302	267	240	125
35°	47	50	53	50	45	32
45°	23	23	24	23	23	18
55°	15	15	15	15	15	13
65°	9	9	9	9	9	10
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°	35690.5	35690.5	35690.5	35690.5	35690.5
2.5°	32194.3	32221.5	32232.0	32263.8	32381.6
5°	23221.0	22982.3	22920.4	23079.0	23101.7
7.5°	13755.2	13803.6	13980.4	14019.6	13877.6
10°	7548.5	7610.4	7601.3	7655.7	7717.7
12.5°	3860.3	3812.0	3796.9	3858.8	3772.7
15°	2017.1	2054.8	2056.3	2020.1	1992.9
17.5°	1084.8	1128.6	1201.2	1142.2	1051.6
20°	640.6	679.9	741.9	693.5	654.2
22.5°	395.9	427.6	471.4	433.6	401.9
25°	237.2	268.9	302.2	267.4	240.2
27.5°	140.5	167.7	188.9	166.2	139.0
30°	90.7	105.8	119.4	104.3	92.2
32.5°	63.5	69.5	75.5	69.5	63.5
35°	46.8	49.9	52.9	49.9	45.3
37.5°	36.3	39.3	40.8	37.8	34.8
40°	30.2	31.7	33.2	31.7	30.2
42.5°	25.7	27.2	27.2	27.2	25.7
45°	22.7	22.7	24.2	22.7	22.7
47.5°	19.6	19.6	21.2	19.6	19.6
50°	18.1	18.1	18.1	18.1	18.1
52.5°	16.6	16.6	16.6	16.6	16.6
55°	15.1	15.1	15.1	15.1	15.1
57.5°	13.6	13.6	13.6	13.6	13.6
60°	12.1	12.1	12.1	12.1	12.1
62.5°	10.6	10.6	10.6	10.6	10.6
65°	9.1	9.1	9.1	9.1	9.1
67.5°	9.1	9.1	9.1	9.1	9.1
70°	7.6	7.6	7.6	7.6	7.6
72.5°	6.0	6.0	6.0	6.0	6.0
75°	4.5	4.5	4.5	4.5	6.0
77.5°	4.5	4.5	4.5	4.5	4.5
80°	3.0	3.0	3.0	3.0	3.0
82.5°	3.0	3.0	3.0	3.0	3.0
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

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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)