

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: P743920

Luminaire Tested: LD4D20D010-EU4DR1515309040-4LBS1LI

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P743920  
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: LD4D20D010-EU4DR1515309040-4LBS1LI  
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2233.0 lumens  
Efficiency: N/A  
Efficacy: 96.7 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): 23.1  
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

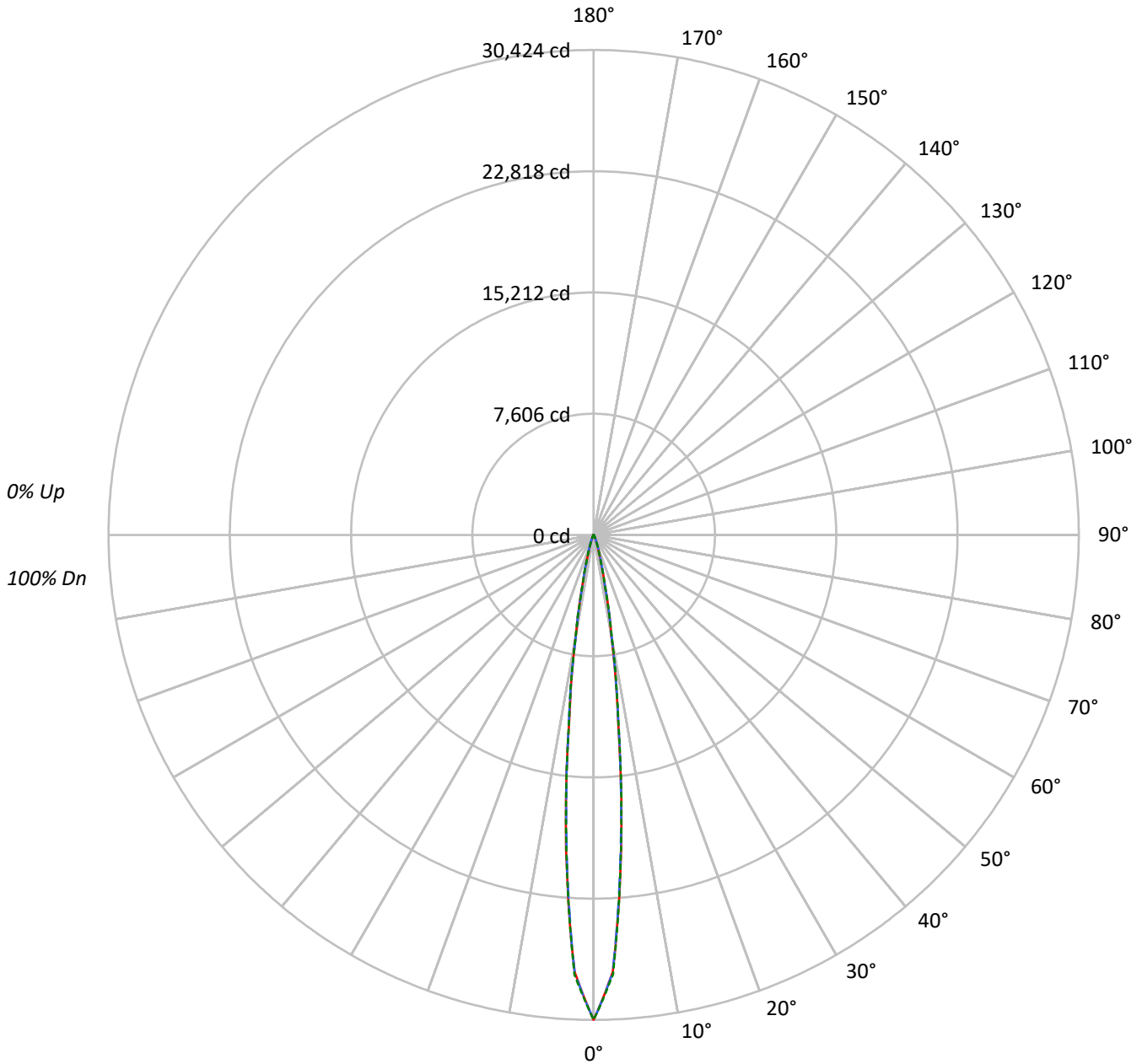


Downlight



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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°	3423352	3423352	3423352
5°	2011724	1985676	2001388
10°	600406	604615	613871
15°	149342	152251	147552
20°	44683	51745	45633
25°	15752	20067	15954
30°	5788	7615	5886
35°	2898	3275	2803
40°	1832	2010	1832
45°	1351	1442	1351
50°	1078	1078	1078
55°	898	898	898
60°	723	723	723
65°	550	550	550
70°	468	468	468
75°	295	295	393
80°	205	205	205
85°	108	108	108

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 1442 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1448.3	64.9
10°-20°	595.7	26.7
20°-30°	118.3	5.3
30°-40°	29.5	1.3
40°-50°	15.5	0.7
50°-60°	11.5	0.5
60°-70°	8.1	0.4
70°-80°	4.7	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°	2162.3	96.8
0°-40°	2191.8	98.2
0°-60°	2218.9	99.4
0°-90°	2233.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2233.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	30424	30424	30424	30424	30424	
5°	19795	19591	19538	19674	19693	1446
15°	1719	1752	1753	1722	1699	590
25°	202	229	258	228	205	106
35°	40	42	45	42	39	27
45°	19	19	21	19	19	15
55°	13	13	13	13	13	12
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°	30424.4	30424.4	30424.4	30424.4	30424.4
2.5°	27444.1	27467.2	27476.3	27503.3	27603.8
5°	19794.8	19591.3	19538.5	19673.7	19693.1
7.5°	11725.7	11766.9	11917.6	11951.1	11830.0
10°	6434.7	6487.5	6479.8	6526.1	6579.0
12.5°	3290.8	3249.5	3236.7	3289.5	3216.1
15°	1719.4	1751.6	1752.9	1722.0	1698.8
17.5°	924.8	962.1	1023.9	973.7	896.4
20°	546.1	579.6	632.4	591.2	557.7
22.5°	337.4	364.5	401.8	369.6	342.6
25°	202.2	229.3	257.6	228.0	204.8
27.5°	119.8	143.0	161.0	141.7	118.5
30°	77.3	90.2	101.7	88.9	78.6
32.5°	54.1	59.2	64.4	59.2	54.1
35°	39.9	42.5	45.1	42.5	38.6
37.5°	30.9	33.5	34.8	32.2	29.6
40°	25.8	27.0	28.3	27.0	25.8
42.5°	21.9	23.2	23.2	23.2	21.9
45°	19.3	19.3	20.6	19.3	19.3
47.5°	16.7	16.7	18.0	16.7	16.7
50°	15.5	15.5	15.5	15.5	15.5
52.5°	14.2	14.2	14.2	14.2	14.2
55°	12.9	12.9	12.9	12.9	12.9
57.5°	11.6	11.6	11.6	11.6	11.6
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°	5.2	5.2	5.2	5.2	5.2
75°	3.9	3.9	3.9	3.9	5.2
77.5°	3.9	3.9	3.9	3.9	3.9
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)