

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: P743879

Luminaire Tested: LD4D20D010-EU4DR1515309027-4LBS1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P743879  
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-EU4DR1515309027-4LBS1B  
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1781.9 lumens  
Efficiency: N/A  
Efficacy: 77.1 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

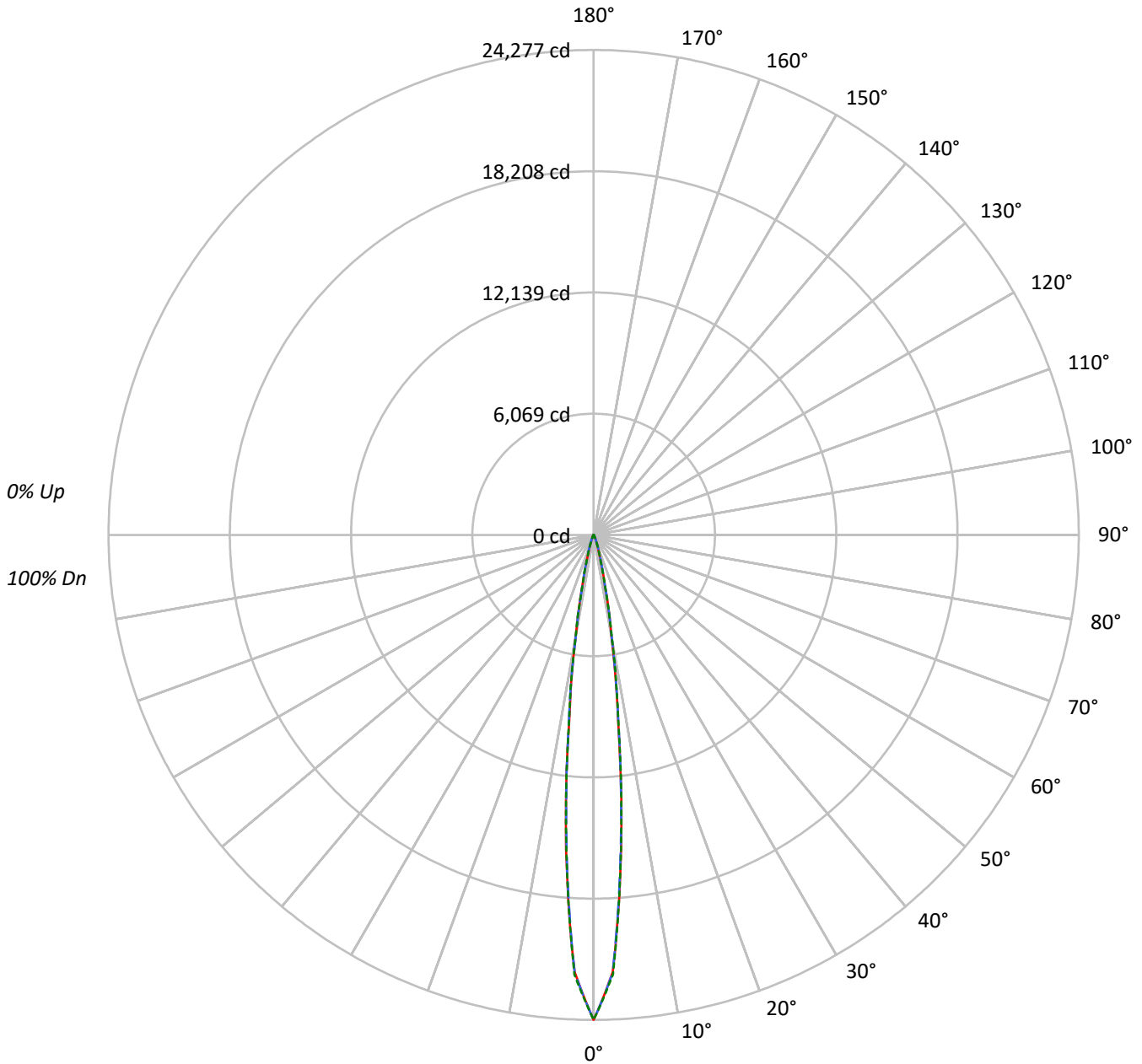


Downlight



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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°	2731681	2731681	2731681
5°	1605269	1584476	1597017
10°	479097	482456	489837
15°	119168	121495	117743
20°	35658	41288	36411
25°	12573	16009	12729
30°	4620	6080	4695
35°	2317	2614	2237
40°	1463	1605	1463
45°	1078	1148	1078
50°	855	855	855
55°	717	717	717
60°	576	576	576
65°	442	442	442
70°	373	373	373
75°	234	234	310
80°	166	166	166
85°	83	83	83

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 1148 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1155.6	64.9
10°-20°	475.4	26.7
20°-30°	94.4	5.3
30°-40°	23.6	1.3
40°-50°	12.4	0.7
50°-60°	9.2	0.5
60°-70°	6.5	0.4
70°-80°	3.7	0.2
80°-90°	1.1	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°	1725.4	96.8
0°-40°	1749.0	98.2
0°-60°	1770.5	99.4
0°-90°	1781.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1781.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	24277	24277	24277	24277	24277	
5°	15795	15633	15591	15699	15714	1153
15°	1372	1398	1399	1374	1356	470
25°	161	183	206	182	163	85
35°	32	34	36	34	31	22
45°	15	15	16	15	15	12
55°	10	10	10	10	10	9
65°	6	6	6	6	6	6
75°	3	3	3	3	4	4
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°	24277.3	24277.3	24277.3	24277.3	24277.3
2.5°	21899.1	21917.6	21924.8	21946.4	22026.5
5°	15795.4	15633.0	15590.8	15698.7	15714.2
7.5°	9356.6	9389.4	9509.7	9536.4	9439.8
10°	5134.6	5176.7	5170.6	5207.6	5249.7
12.5°	2625.9	2593.0	2582.7	2624.9	2566.3
15°	1372.0	1397.7	1398.8	1374.1	1355.6
17.5°	737.9	767.7	817.1	777.0	715.3
20°	435.8	462.5	504.6	471.7	445.0
22.5°	269.3	290.9	320.7	295.0	273.4
25°	161.4	182.9	205.5	181.9	163.4
27.5°	95.6	114.1	128.5	113.1	94.6
30°	61.7	71.9	81.2	70.9	62.7
32.5°	43.2	47.3	51.4	47.3	43.2
35°	31.9	33.9	36.0	33.9	30.8
37.5°	24.7	26.7	27.7	25.7	23.6
40°	20.6	21.6	22.6	21.6	20.6
42.5°	17.5	18.5	18.5	18.5	17.5
45°	15.4	15.4	16.4	15.4	15.4
47.5°	13.4	13.4	14.4	13.4	13.4
50°	12.3	12.3	12.3	12.3	12.3
52.5°	11.3	11.3	11.3	11.3	11.3
55°	10.3	10.3	10.3	10.3	10.3
57.5°	9.2	9.2	9.2	9.2	9.2
60°	8.2	8.2	8.2	8.2	8.2
62.5°	7.2	7.2	7.2	7.2	7.2
65°	6.2	6.2	6.2	6.2	6.2
67.5°	6.2	6.2	6.2	6.2	6.2
70°	5.1	5.1	5.1	5.1	5.1
72.5°	4.1	4.1	4.1	4.1	4.1
75°	3.1	3.1	3.1	3.1	4.1
77.5°	3.1	3.1	3.1	3.1	3.1
80°	2.1	2.1	2.1	2.1	2.1
82.5°	2.1	2.1	2.1	2.1	2.1
85°	1.0	1.0	1.0	1.0	1.0
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



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Scaled Data Report







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

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(END OF REPORT)