

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: P743888

Luminaire Tested: LD4D20D010-EU4DR1515309030-4LBDP1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P743888  
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-EU4DR1515309030-4LBDP1B  
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1740.3 lumens  
Efficiency: N/A  
Efficacy: 75.3 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): 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



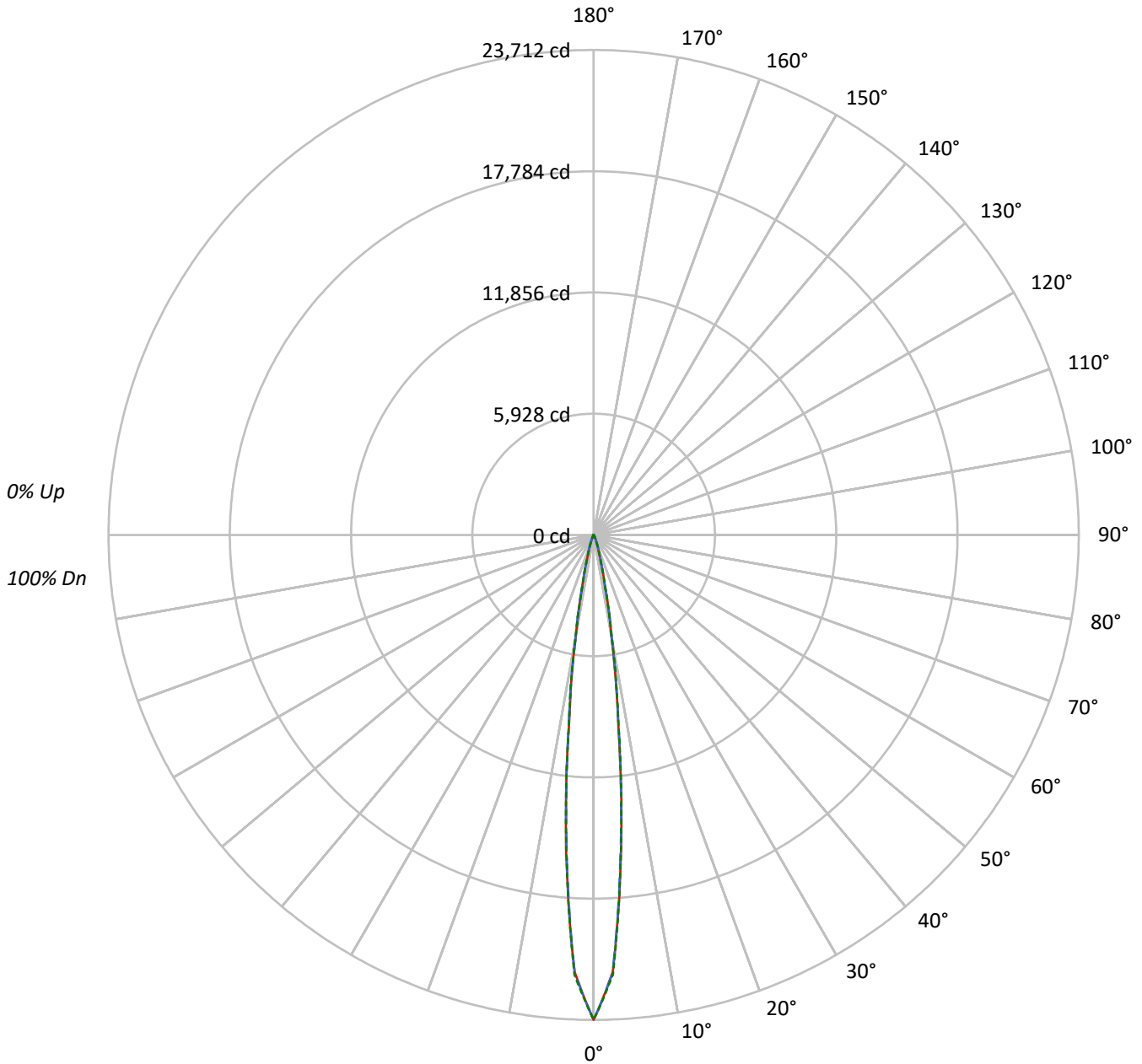
Downlight



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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°	2668073	2668073	2668073
5°	1567880	1547585	1559821
10°	467938	471222	478435
15°	116397	118664	114998
20°	34824	40330	35560
25°	12277	15642	12433
30°	4508	5938	4583
35°	2258	2549	2186
40°	1427	1569	1427
45°	1057	1127	1057
50°	834	834	834
55°	696	696	696
60°	562	562	562
65°	428	428	428
70°	366	366	366
75°	227	227	302
80°	158	158	158
85°	83	83	83

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 1127 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1128.7	64.9
10°-20°	464.3	26.7
20°-30°	92.2	5.3
30°-40°	23.0	1.3
40°-50°	12.1	0.7
50°-60°	8.9	0.5
60°-70°	6.3	0.4
70°-80°	3.6	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°	1685.2	96.8
0°-40°	1708.3	98.2
0°-60°	1729.3	99.4
0°-90°	1740.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1740.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	23712	23712	23712	23712	23712	
5°	15428	15269	15228	15333	15348	1127
15°	1340	1365	1366	1342	1324	459
25°	158	179	201	178	160	83
35°	31	33	35	33	30	21
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°	23712.0	23712.0	23712.0	23712.0	23712.0
2.5°	21389.2	21407.2	21414.3	21435.4	21513.6
5°	15427.5	15268.9	15227.8	15333.2	15348.2
7.5°	9138.7	9170.8	9288.3	9314.3	9220.0
10°	5015.0	5056.2	5050.2	5086.3	5127.5
12.5°	2564.7	2532.6	2522.6	2563.7	2506.5
15°	1340.1	1365.2	1366.2	1342.1	1324.0
17.5°	720.7	749.8	798.0	758.9	698.7
20°	425.6	451.7	492.9	460.7	434.6
22.5°	263.0	284.1	313.2	288.1	267.0
25°	157.6	178.7	200.8	177.7	159.6
27.5°	93.4	111.4	125.5	110.4	92.4
30°	60.2	70.3	79.3	69.3	61.2
32.5°	42.2	46.2	50.2	46.2	42.2
35°	31.1	33.1	35.1	33.1	30.1
37.5°	24.1	26.1	27.1	25.1	23.1
40°	20.1	21.1	22.1	21.1	20.1
42.5°	17.1	18.1	18.1	18.1	17.1
45°	15.1	15.1	16.1	15.1	15.1
47.5°	13.0	13.0	14.1	13.0	13.0
50°	12.0	12.0	12.0	12.0	12.0
52.5°	11.0	11.0	11.0	11.0	11.0
55°	10.0	10.0	10.0	10.0	10.0
57.5°	9.0	9.0	9.0	9.0	9.0
60°	8.0	8.0	8.0	8.0	8.0
62.5°	7.0	7.0	7.0	7.0	7.0
65°	6.0	6.0	6.0	6.0	6.0
67.5°	6.0	6.0	6.0	6.0	6.0
70°	5.0	5.0	5.0	5.0	5.0
72.5°	4.0	4.0	4.0	4.0	4.0
75°	3.0	3.0	3.0	3.0	4.0
77.5°	3.0	3.0	3.0	3.0	3.0
80°	2.0	2.0	2.0	2.0	2.0
82.5°	2.0	2.0	2.0	2.0	2.0
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

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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(END OF REPORT)