

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: P741920

Luminaire Tested: LD4D10D010-EU4DR150210IC9040-4LBDP1LI

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P741920  
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: LD4D10D010-EU4DR150210IC9040-4LBDP1LI  
Description: 4 INCH ROUND DEEP 45° CUTOFF 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: 1149.7 lumens  
Efficiency: N/A  
Efficacy: 98.3 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): 11.7  
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



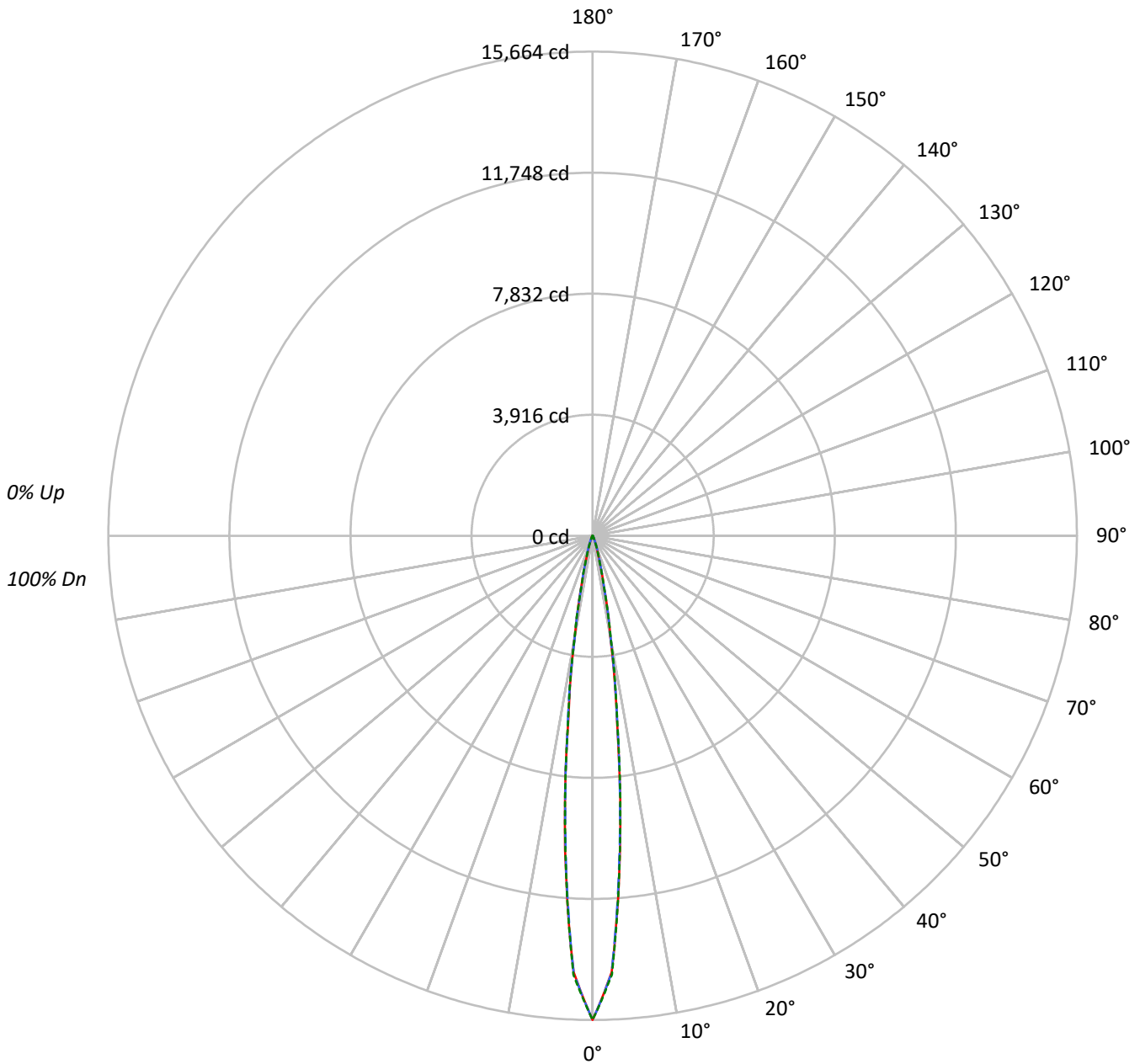
Downlight



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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°	1762569	1762569	1762569
5°	1035771	1022356	1030446
10°	309128	311293	316061
15°	76894	78388	75974
20°	23009	26642	23491
25°	8109	10330	8211
30°	2980	3924	3033
35°	1496	1685	1445
40°	944	1037	944
45°	693	742	693
50°	556	556	556
55°	459	459	459
60°	372	372	372
65°	285	285	285
70°	241	241	241
75°	151	151	204
80°	102	102	102
85°	58	58	58

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 742 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	745.7	64.9
10°-20°	306.7	26.7
20°-30°	60.9	5.3
30°-40°	15.2	1.3
40°-50°	8.0	0.7
50°-60°	5.9	0.5
60°-70°	4.2	0.4
70°-80°	2.4	0.2
80°-90°	0.7	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°	1113.3	96.8
0°-40°	1128.5	98.2
0°-60°	1142.4	99.4
0°-90°	1149.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1149.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	15664	15664	15664	15664	15664	
5°	10192	10087	10060	10129	10139	744
15°	885	902	902	887	875	304
25°	104	118	133	117	105	55
35°	21	22	23	22	20	14
45°	10	10	11	10	10	8
55°	7	7	7	7	7	6
65°	4	4	4	4	4	4
75°	2	2	2	2	3	2
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°	15664.5	15664.5	15664.5	15664.5	15664.5
2.5°	14130.0	14142.0	14146.6	14160.5	14212.3
5°	10191.7	10086.9	10059.7	10129.4	10139.3
7.5°	6037.2	6058.4	6136.0	6153.2	6090.9
10°	3313.0	3340.2	3336.2	3360.1	3387.3
12.5°	1694.3	1673.1	1666.5	1693.6	1655.8
15°	885.3	901.9	902.5	886.6	874.7
17.5°	476.1	495.4	527.2	501.3	461.5
20°	281.2	298.4	325.6	304.4	287.1
22.5°	173.7	187.7	206.9	190.3	176.4
25°	104.1	118.0	132.6	117.4	105.4
27.5°	61.7	73.6	82.9	72.9	61.0
30°	39.8	46.4	52.4	45.8	40.5
32.5°	27.9	30.5	33.2	30.5	27.9
35°	20.6	21.9	23.2	21.9	19.9
37.5°	15.9	17.2	17.9	16.6	15.3
40°	13.3	13.9	14.6	13.9	13.3
42.5°	11.3	11.9	11.9	11.9	11.3
45°	9.9	9.9	10.6	9.9	9.9
47.5°	8.6	8.6	9.3	8.6	8.6
50°	8.0	8.0	8.0	8.0	8.0
52.5°	7.3	7.3	7.3	7.3	7.3
55°	6.6	6.6	6.6	6.6	6.6
57.5°	6.0	6.0	6.0	6.0	6.0
60°	5.3	5.3	5.3	5.3	5.3
62.5°	4.6	4.6	4.6	4.6	4.6
65°	4.0	4.0	4.0	4.0	4.0
67.5°	4.0	4.0	4.0	4.0	4.0
70°	3.3	3.3	3.3	3.3	3.3
72.5°	2.7	2.7	2.7	2.7	2.7
75°	2.0	2.0	2.0	2.0	2.7
77.5°	2.0	2.0	2.0	2.0	2.0
80°	1.3	1.3	1.3	1.3	1.3
82.5°	1.3	1.3	1.3	1.3	1.3
85°	0.7	0.7	0.7	0.7	0.7
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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