

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: P739909

Luminaire Tested: LD4D05D010-EU4DR150210IC9050-4LBS1LI

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P739909  
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: LD4D05D010-EU4DR150210IC9050-4LBS1LI  
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 760.4 lumens  
Efficiency: N/A  
Efficacy: 101.4 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): 7.5  
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

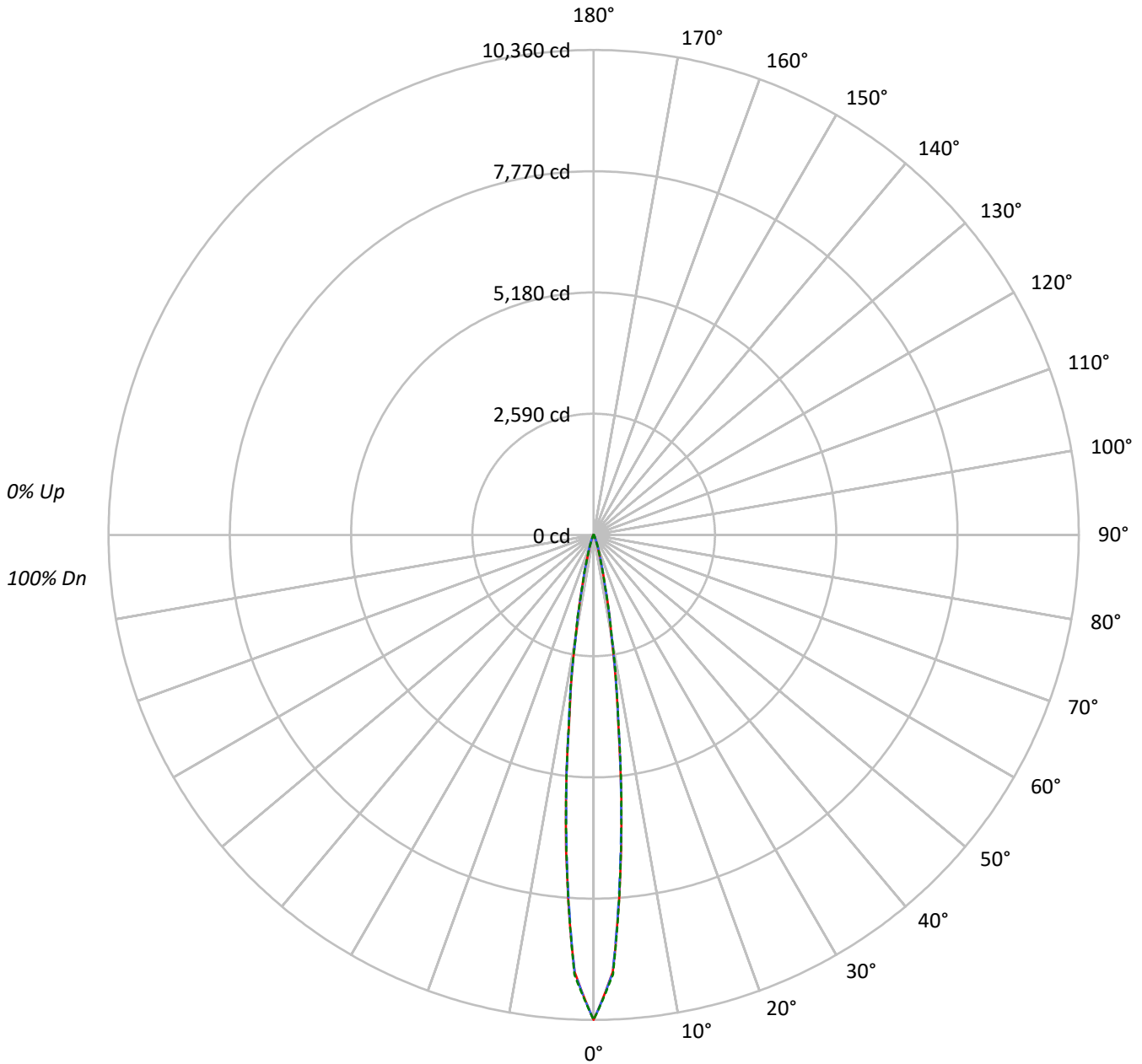


Downlight



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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°	1165729	1165729	1165729
5°	685040	676168	681513
10°	204456	205883	209037
15°	50855	51845	50247
20°	15219	17616	15538
25°	5367	6832	5430
30°	1969	2591	2007
35°	988	1118	959
40°	625	682	625
45°	462	490	462
50°	369	369	369
55°	306	306	306
60°	246	246	246
65°	186	186	186
70°	161	161	161
75°	98	98	136
80°	71	71	71
85°	33	33	33

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 490 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	493.2	64.9
10°-20°	202.9	26.7
20°-30°	40.3	5.3
30°-40°	10.1	1.3
40°-50°	5.3	0.7
50°-60°	3.9	0.5
60°-70°	2.8	0.4
70°-80°	1.6	0.2
80°-90°	0.5	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°	736.3	96.8
0°-40°	746.4	98.2
0°-60°	755.6	99.4
0°-90°	760.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	760.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	10360	10360	10360	10360	10360	
5°	6741	6671	6653	6699	6706	492
15°	586	596	597	586	578	201
25°	69	78	88	78	70	36
35°	14	14	15	14	13	9
45°	7	7	7	7	7	5
55°	4	4	4	4	4	4
65°	3	3	3	3	3	3
75°	1	1	1	1	2	2
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	10360.2	10360.2	10360.2	10360.2	10360.2
2.5°	9345.3	9353.2	9356.3	9365.5	9399.7
5°	6740.6	6671.3	6653.3	6699.4	6705.9
7.5°	3992.9	4006.9	4058.2	4069.6	4028.4
10°	2191.2	2209.1	2206.5	2222.3	2240.3
12.5°	1120.6	1106.5	1102.2	1120.1	1095.1
15°	585.5	596.5	596.9	586.4	578.5
17.5°	314.9	327.6	348.7	331.6	305.3
20°	186.0	197.4	215.3	201.3	189.9
22.5°	114.9	124.1	136.8	125.9	116.7
25°	68.9	78.1	87.7	77.6	69.7
27.5°	40.8	48.7	54.8	48.2	40.3
30°	26.3	30.7	34.6	30.3	26.8
32.5°	18.4	20.2	21.9	20.2	18.4
35°	13.6	14.5	15.4	14.5	13.2
37.5°	10.5	11.4	11.8	11.0	10.1
40°	8.8	9.2	9.6	9.2	8.8
42.5°	7.5	7.9	7.9	7.9	7.5
45°	6.6	6.6	7.0	6.6	6.6
47.5°	5.7	5.7	6.1	5.7	5.7
50°	5.3	5.3	5.3	5.3	5.3
52.5°	4.8	4.8	4.8	4.8	4.8
55°	4.4	4.4	4.4	4.4	4.4
57.5°	3.9	3.9	3.9	3.9	3.9
60°	3.5	3.5	3.5	3.5	3.5
62.5°	3.1	3.1	3.1	3.1	3.1
65°	2.6	2.6	2.6	2.6	2.6
67.5°	2.6	2.6	2.6	2.6	2.6
70°	2.2	2.2	2.2	2.2	2.2
72.5°	1.8	1.8	1.8	1.8	1.8
75°	1.3	1.3	1.3	1.3	1.8
77.5°	1.3	1.3	1.3	1.3	1.3
80°	0.9	0.9	0.9	0.9	0.9
82.5°	0.9	0.9	0.9	0.9	0.9
85°	0.4	0.4	0.4	0.4	0.4
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)