

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: P740086

Luminaire Tested: LD4D05D010-EU4DR300210IC9027-4LBDP1H

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P740086  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/30/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D05D010-EU4DR300210IC9027-4LBDP1H  
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 600.9 lumens  
Efficiency: N/A  
Efficacy: 80.1 lumens/watt  
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49  
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')  
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



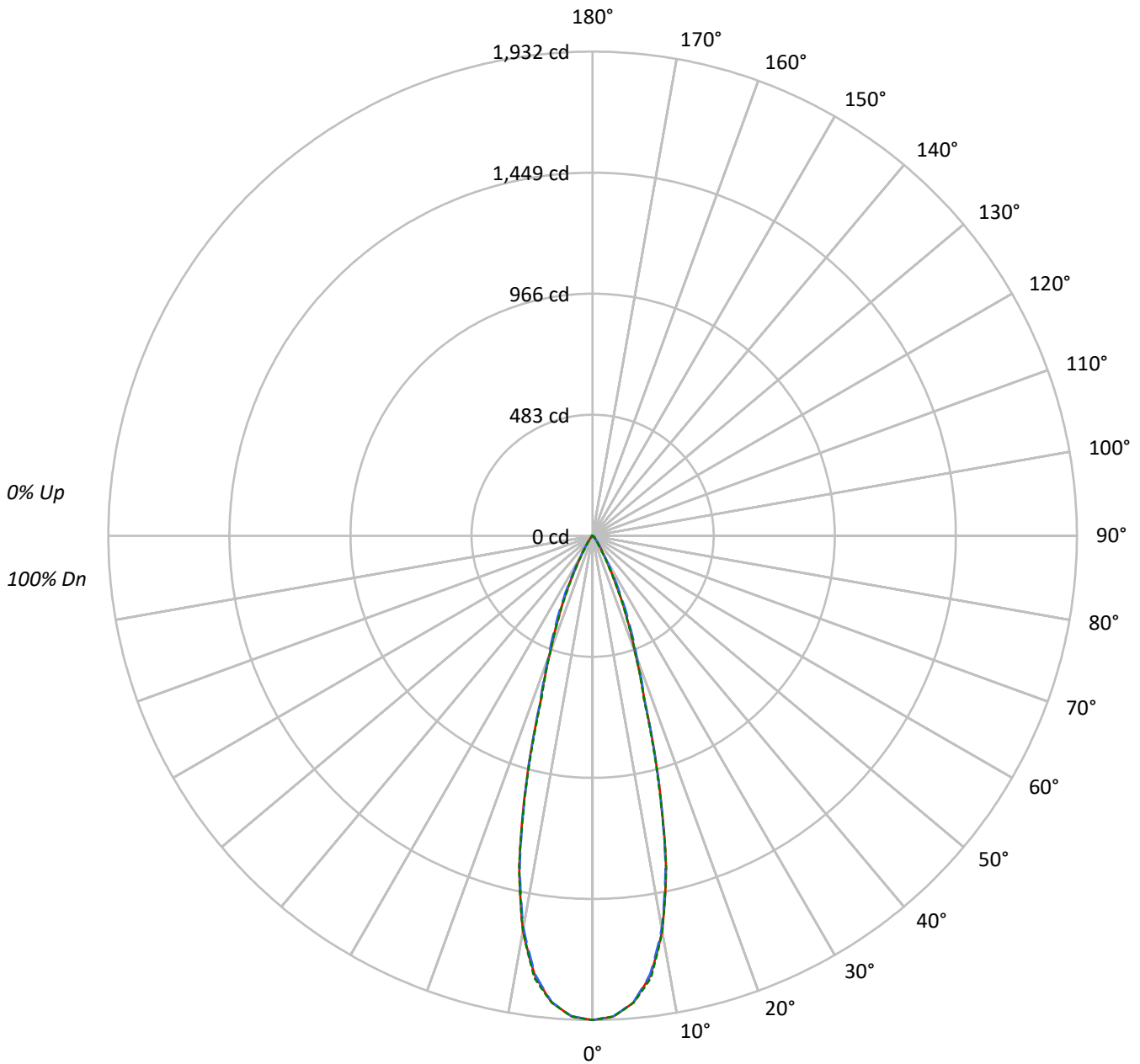
Downlight



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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	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96						96													
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92						92													
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89						89													
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85						85													
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82						82													
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79						79													
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77						77													
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74						74													
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72						72													
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69						69													

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	147905	147905	147905
5°	143660	143491	143668
10°	124429	123550	124398
15°	81185	80749	80337
20°	40369	41885	40312
25°	20337	22930	19915
30°	8140	8874	7097
35°	3775	3616	3028
40°	1629	1809	1539
45°	1147	1429	1158
50°	393	1036	417
55°	227	427	240
60°	153	199	153
65°	109	109	109
70°	67	45	67
75°	0	30	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 1429 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	169.9	28.3
10°-20°	273.6	45.5
20°-30°	118.3	19.7
30°-40°	26.9	4.5
40°-50°	9.3	1.5
50°-60°	2.2	0.4
60°-70°	0.6	0.1
70°-80°	0.1	0.0
80°-90°	0.0	0.0
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°	561.8	93.5
0°-40°	588.8	98.0
0°-60°	600.3	99.9
0°-90°	600.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	600.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1932	1932	1932	1932	1932	
5°	1870	1868	1868	1871	1870	170
15°	1024	1012	1019	1016	1014	274
25°	241	250	272	244	236	115
35°	40	41	39	38	32	27
45°	11	13	13	13	11	8
55°	2	2	3	2	2	2
65°	1	1	1	1	1	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1932.3	1932.3	1932.3	1932.3	1932.3
2.5°	1919.4	1918.1	1918.9	1919.8	1920.2
5°	1869.7	1867.9	1867.5	1871.4	1869.8
7.5°	1769.2	1766.6	1762.7	1771.6	1779.8
10°	1600.9	1598.1	1589.6	1593.8	1600.5
12.5°	1352.5	1343.2	1343.1	1356.3	1354.5
15°	1024.5	1012.1	1019.0	1015.7	1013.8
17.5°	688.9	684.2	693.3	690.5	678.7
20°	495.6	496.8	514.2	505.5	494.9
22.5°	361.6	366.1	386.7	364.2	355.9
25°	240.8	249.9	271.5	243.5	235.8
27.5°	148.1	152.3	174.2	146.2	142.0
30°	92.1	90.0	100.4	86.1	80.3
32.5°	60.4	57.8	61.1	54.8	50.1
35°	40.4	41.3	38.7	38.4	32.4
37.5°	25.2	29.0	25.6	27.3	20.9
40°	16.3	21.1	18.1	20.0	15.4
42.5°	13.3	16.2	14.9	15.9	13.6
45°	10.6	13.2	13.2	13.2	10.7
47.5°	5.9	8.8	11.3	9.0	6.2
50°	3.3	4.5	8.7	4.6	3.5
52.5°	2.3	2.6	6.0	2.6	2.3
55°	1.7	1.8	3.2	1.9	1.8
57.5°	1.3	1.4	1.7	1.4	1.3
60°	1.0	1.0	1.3	1.1	1.0
62.5°	0.7	0.7	0.9	0.7	0.7
65°	0.6	0.6	0.6	0.6	0.6
67.5°	0.3	0.4	0.4	0.4	0.4
70°	0.3	0.2	0.2	0.2	0.3
72.5°	0.2	0.1	0.1	0.1	0.1
75°	0.0	0.0	0.1	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
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)