

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: P740102

Luminaire Tested: LD4D05D010-EU4DR300210IC9030-4LBS1B

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P740102  
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-EU4DR300210IC9030-4LBS1B  
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 612.4 lumens  
Efficiency: N/A  
Efficacy: 81.7 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

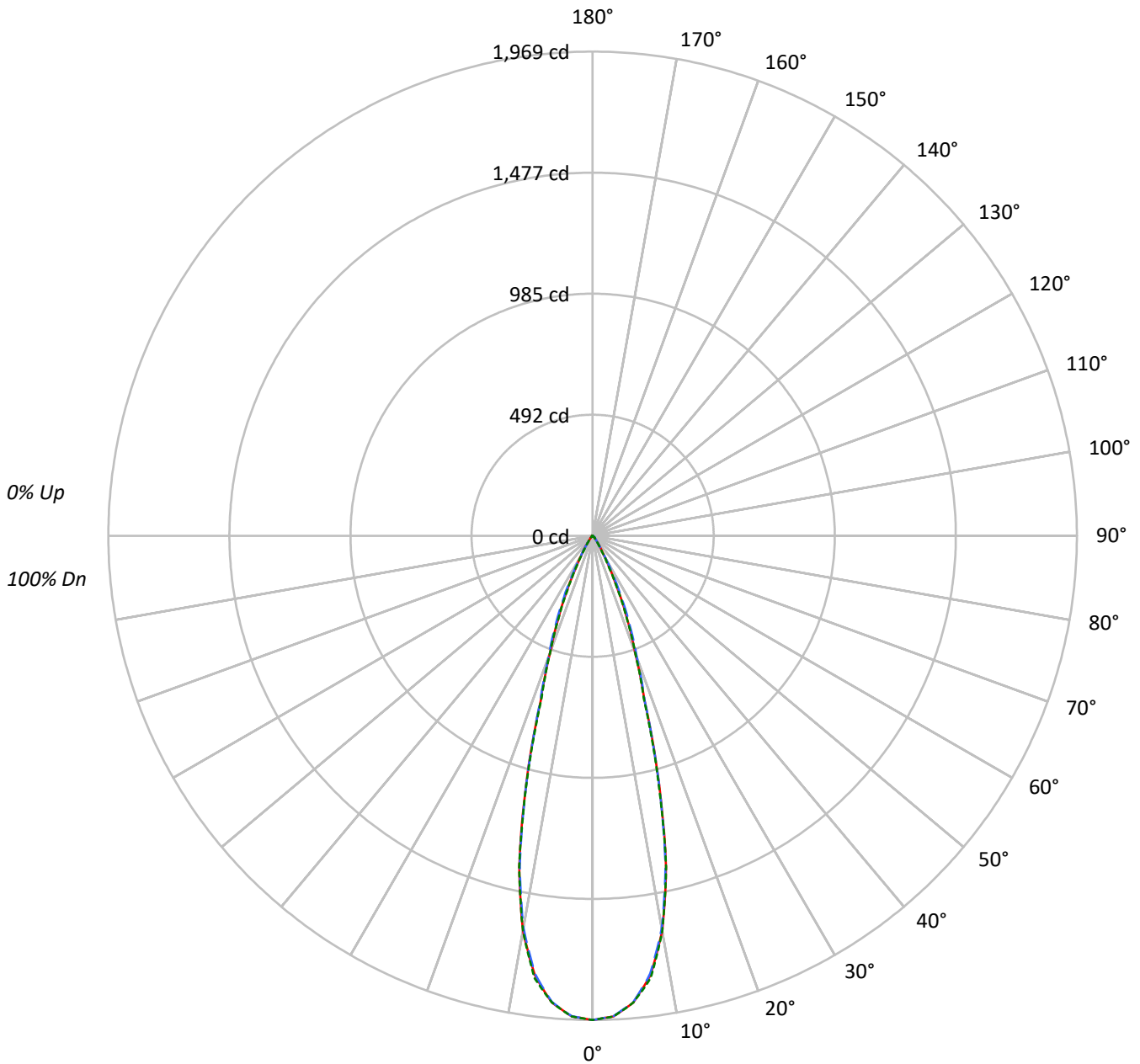


Downlight



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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°	150722	150722	150722
5°	146395	146226	146403
10°	126799	125905	126768
15°	82730	82287	81874
20°	41143	42683	41086
25°	20717	23369	20303
30°	8290	9042	7230
35°	3850	3682	3093
40°	1659	1839	1559
45°	1169	1461	1180
50°	405	1060	429
55°	227	440	240
60°	168	199	168
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: 1461 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	173.2	28.3
10°-20°	278.9	45.5
20°-30°	120.5	19.7
30°-40°	27.5	4.5
40°-50°	9.4	1.5
50°-60°	2.3	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°	572.5	93.5
0°-40°	600.0	98.0
0°-60°	611.7	99.9
0°-90°	612.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	612.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1969	1969	1969	1969	1969	
5°	1905	1904	1903	1907	1905	173
15°	1044	1031	1038	1035	1033	280
25°	245	255	277	248	240	117
35°	41	42	39	39	33	28
45°	11	14	14	14	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	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1969.1	1969.1	1969.1	1969.1	1969.1
2.5°	1956.1	1954.7	1955.5	1956.5	1956.8
5°	1905.3	1903.5	1903.1	1907.0	1905.4
7.5°	1802.9	1800.3	1796.3	1805.3	1813.7
10°	1631.4	1628.5	1619.9	1624.1	1631.0
12.5°	1378.2	1368.8	1368.7	1382.2	1380.4
15°	1044.0	1031.4	1038.4	1035.0	1033.2
17.5°	702.0	697.2	706.5	703.7	691.6
20°	505.1	506.3	524.0	515.1	504.4
22.5°	368.5	373.0	394.1	371.2	362.7
25°	245.3	254.6	276.7	248.1	240.4
27.5°	150.9	155.2	177.5	149.0	144.7
30°	93.8	91.7	102.3	87.8	81.8
32.5°	61.6	58.9	62.3	55.9	51.0
35°	41.2	42.1	39.4	39.1	33.1
37.5°	25.7	29.6	26.1	27.8	21.3
40°	16.6	21.5	18.4	20.4	15.6
42.5°	13.6	16.6	15.2	16.2	13.9
45°	10.8	13.5	13.5	13.5	10.9
47.5°	6.0	9.0	11.5	9.2	6.4
50°	3.4	4.5	8.9	4.8	3.6
52.5°	2.3	2.6	6.1	2.7	2.4
55°	1.7	1.8	3.3	1.9	1.8
57.5°	1.4	1.4	1.7	1.4	1.4
60°	1.1	1.1	1.3	1.1	1.1
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)