

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: P746035

Luminaire Tested: LD4D30D010-EU4DR3020359050-4LBDP1LI

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P746035  
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: LD4D30D010-EU4DR3020359050-4LBDP1LI  
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2944.0 lumens  
Efficiency: N/A  
Efficacy: 101.5 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): 29  
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

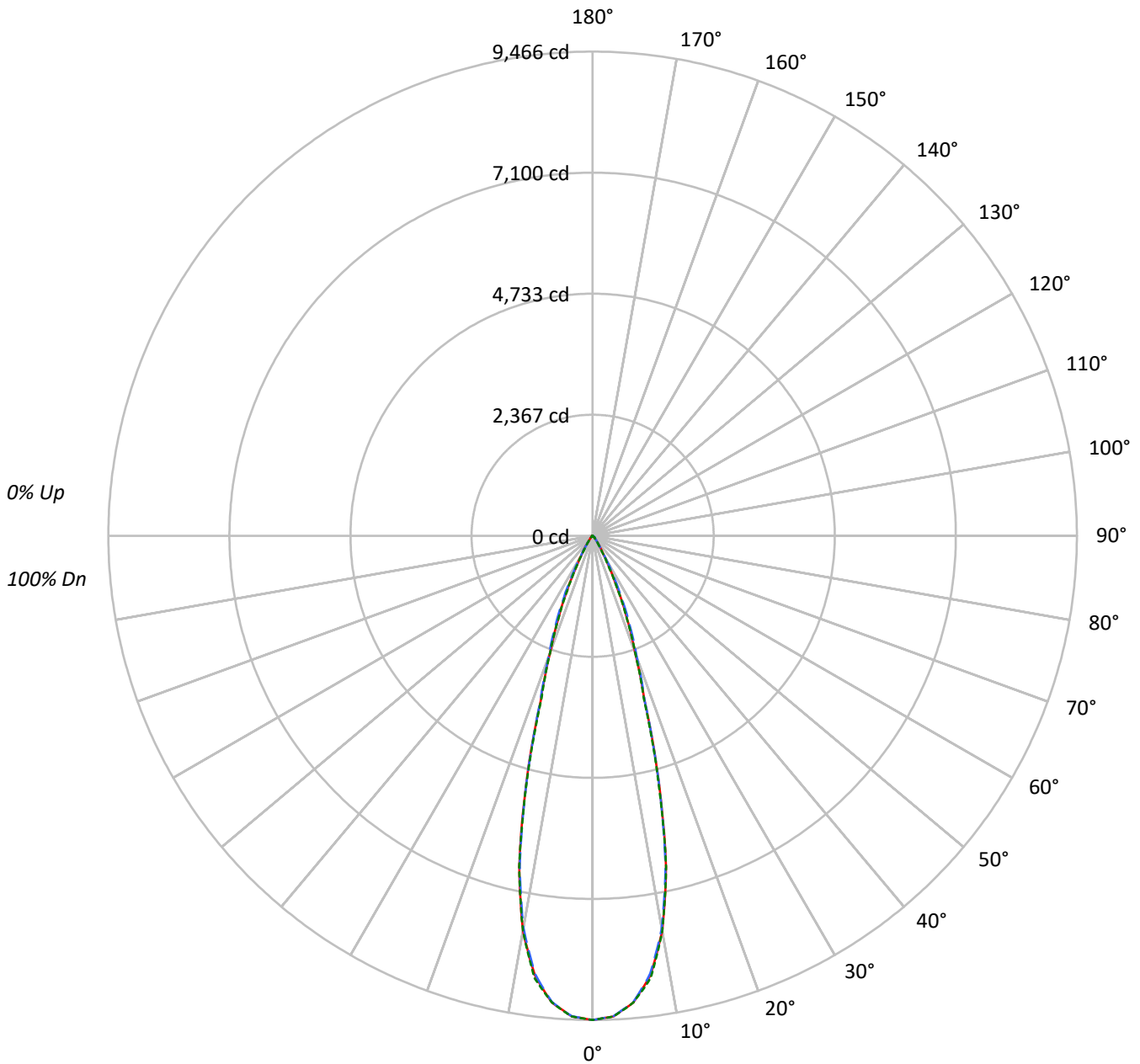


Downlight



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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	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°	724590	724590	724590
5°	703793	702971	703823
10°	609591	605293	609443
15°	397723	395592	393603
20°	197766	205187	197506
25°	99625	112344	97581
30°	39888	43459	34753
35°	18502	17717	14848
40°	7984	8873	7524
45°	5640	6993	5683
50°	1941	5085	2048
55°	1121	2108	1174
60°	781	919	781
65°	507	507	507
70°	313	201	313
75°	0	148	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 6993 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	832.4	28.3
10°-20°	1340.6	45.5
20°-30°	579.3	19.7
30°-40°	132.0	4.5
40°-50°	45.3	1.5
50°-60°	11.1	0.4
60°-70°	2.9	0.1
70°-80°	0.3	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°	2752.4	93.5
0°-40°	2884.4	98.0
0°-60°	2940.8	99.9
0°-90°	2944.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2944.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9466	9466	9466	9466	9466	
5°	9160	9151	9149	9168	9160	833
15°	5019	4959	4992	4976	4967	1344
25°	1180	1224	1330	1193	1155	565
35°	198	202	190	188	159	134
45°	52	65	65	65	52	37
55°	8	9	16	9	9	8
65°	3	3	3	3	3	3
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°	9466.4	9466.4	9466.4	9466.4	9466.4
2.5°	9403.7	9397.1	9400.9	9405.5	9407.4
5°	9159.7	9150.8	9149.0	9168.0	9160.1
7.5°	8667.5	8654.9	8635.9	8679.1	8719.5
10°	7843.0	7829.0	7787.7	7808.1	7841.1
12.5°	6625.7	6580.7	6579.7	6644.8	6636.0
15°	5019.0	4958.6	4992.1	4975.8	4967.0
17.5°	3375.1	3351.9	3396.5	3383.0	3324.9
20°	2427.9	2434.0	2519.0	2476.3	2424.7
22.5°	1771.7	1793.6	1894.4	1784.2	1743.8
25°	1179.6	1224.2	1330.2	1193.1	1155.4
27.5°	725.5	745.9	853.3	716.2	695.7
30°	451.3	441.1	491.7	422.0	393.2
32.5°	296.0	283.0	299.3	268.7	245.4
35°	198.0	202.2	189.6	188.2	158.9
37.5°	123.6	142.2	125.5	133.8	102.3
40°	79.9	103.2	88.8	98.1	75.3
42.5°	65.5	79.5	73.0	77.6	66.9
45°	52.1	64.6	64.6	64.6	52.5
47.5°	28.8	43.2	55.3	44.2	30.7
50°	16.3	21.8	42.7	22.7	17.2
52.5°	11.2	12.5	29.3	13.0	11.6
55°	8.4	8.8	15.8	9.3	8.8
57.5°	6.5	7.0	8.4	7.0	6.5
60°	5.1	5.1	6.0	5.6	5.1
62.5°	3.7	3.7	4.2	3.7	3.7
65°	2.8	2.8	2.8	2.8	2.8
67.5°	1.4	1.8	1.8	1.8	1.8
70°	1.4	0.9	0.9	0.9	1.4
72.5°	0.9	0.5	0.5	0.5	0.5
75°	0.0	0.0	0.5	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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