

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: P755330

Luminaire Tested: LD4D90BD010-EU4DR3070959024-4LBDP1LI

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P755330  
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: LD4D90BD010-EU4DR3070959024-4LBDP1LI  
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7551.8 lumens  
Efficiency: N/A  
Efficacy: 76.4 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): 98.9  
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

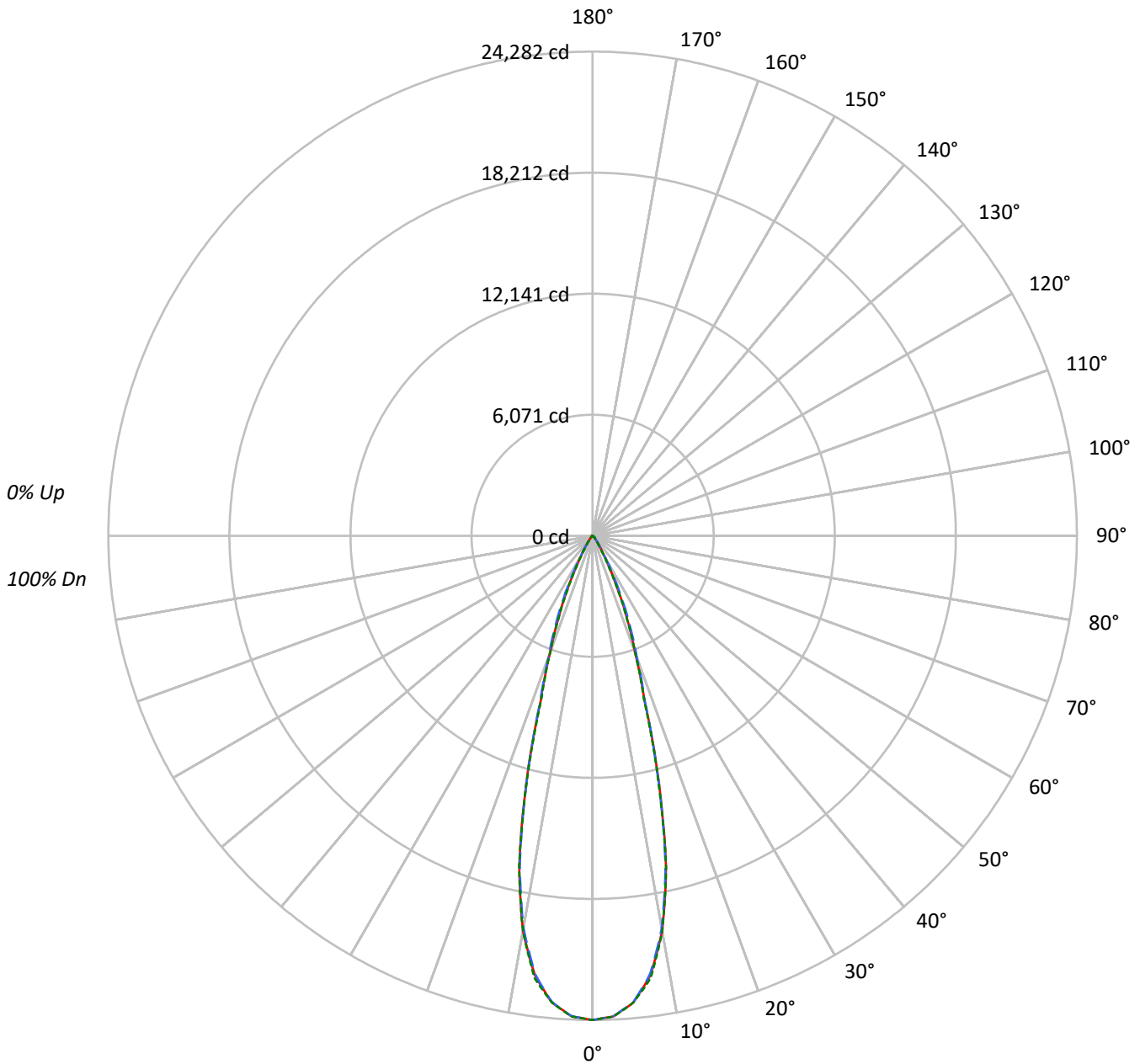


Downlight

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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°	1858665	1858665	1858665
5°	1805310	1803197	1805403
10°	1563671	1552642	1563298
15°	1020221	1014737	1009634
20°	507307	526343	506631
25°	255548	288165	250312
30°	102314	111480	89145
35°	47459	45450	38096
40°	20494	22752	19295
45°	14451	17937	14581
50°	4966	13063	5251
55°	2869	5405	3029
60°	2005	2373	2005
65°	1304	1304	1304
70°	806	537	806
75°	0	355	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 17937 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2135.3	28.3
10°-20°	3438.9	45.5
20°-30°	1486.0	19.7
30°-40°	338.7	4.5
40°-50°	116.3	1.5
50°-60°	28.4	0.4
60°-70°	7.4	0.1
70°-80°	0.8	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°	7060.2	93.5
0°-40°	7398.9	98.0
0°-60°	7543.6	99.9
0°-90°	7551.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7551.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	24282	24282	24282	24282	24282	
5°	23496	23473	23468	23517	23497	2137
15°	12874	12720	12805	12764	12741	3447
25°	3026	3140	3412	3060	2964	1448
35°	508	519	486	483	408	344
45°	134	166	166	166	135	95
55°	22	23	40	24	23	21
65°	7	7	7	7	7	7
75°	0	0	1	0	0	1
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°	24282.5	24282.5	24282.5	24282.5	24282.5
2.5°	24121.6	24104.9	24114.4	24126.3	24131.1
5°	23495.7	23473.0	23468.2	23517.1	23496.9
7.5°	22233.1	22200.9	22152.1	22262.9	22366.7
10°	20118.2	20082.4	19976.3	20028.8	20113.4
12.5°	16995.9	16880.2	16877.8	17044.7	17022.1
15°	12874.5	12719.5	12805.3	12763.6	12740.9
17.5°	8657.7	8598.1	8712.5	8677.9	8528.9
20°	6228.0	6243.5	6461.7	6352.0	6219.7
22.5°	4544.6	4600.7	4859.4	4576.8	4473.1
25°	3025.8	3140.2	3412.0	3060.3	2963.8
27.5°	1861.0	1913.5	2188.9	1837.2	1784.7
30°	1157.6	1131.4	1261.3	1082.5	1008.6
32.5°	759.4	726.0	767.8	689.1	629.5
35°	507.9	518.6	486.4	482.8	407.7
37.5°	317.1	364.8	321.9	343.4	262.3
40°	205.1	264.7	227.7	251.6	193.1
42.5°	168.1	203.9	187.2	199.1	171.7
45°	133.5	165.7	165.7	165.7	134.7
47.5°	73.9	110.9	141.9	113.3	78.7
50°	41.7	56.0	109.7	58.4	44.1
52.5°	28.6	32.2	75.1	33.4	29.8
55°	21.5	22.7	40.5	23.8	22.7
57.5°	16.7	17.9	21.5	17.9	16.7
60°	13.1	13.1	15.5	14.3	13.1
62.5°	9.5	9.5	10.7	9.5	9.5
65°	7.2	7.2	7.2	7.2	7.2
67.5°	3.6	4.8	4.8	4.8	4.8
70°	3.6	2.4	2.4	2.4	3.6
72.5°	2.4	1.2	1.2	1.2	1.2
75°	0.0	0.0	1.2	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)