

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: P755333

Luminaire Tested: LD4D90BD010-EU4DR3070959024-4LBS1H

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P755333  
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-EU4DR3070959024-4LBS1H  
Description: 4 INCH ROUND SHALLOW SEMI-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: 7570.7 lumens  
Efficiency: N/A  
Efficacy: 76.5 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): 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

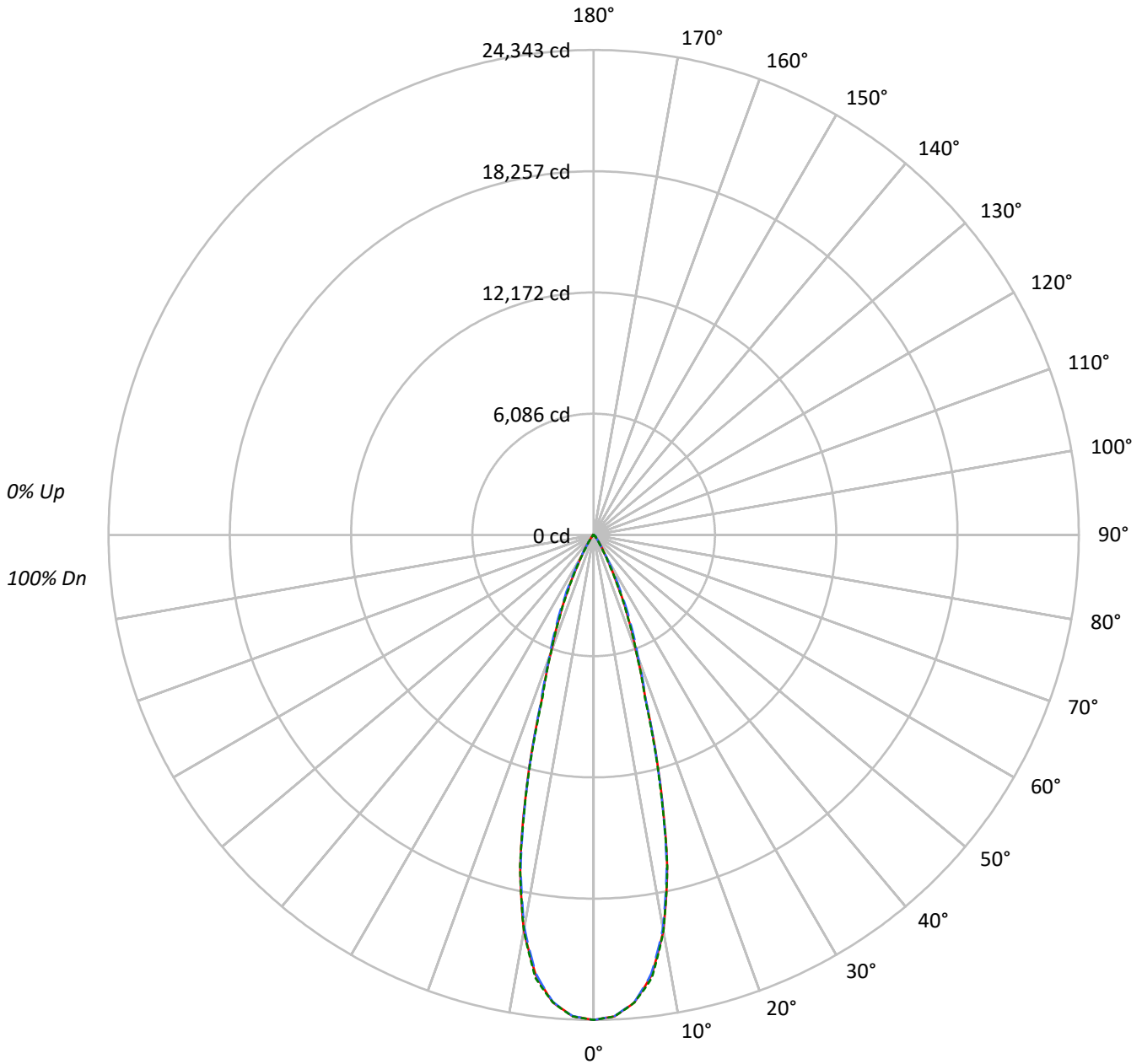


Downlight

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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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96																			
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92																			
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89																			
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85																			
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82																			
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79																			
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77																			
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74																			
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72																			
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69																			

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

	0°	45°	90°
0°	1863327	1863327	1863327
5°	1809836	1807723	1809921
10°	1567588	1556536	1567215
15°	1022773	1017281	1012170
20°	508577	527662	507893
25°	256190	288891	250937
30°	102570	111762	89366
35°	47571	45562	38199
40°	20544	22812	19345
45°	14495	17980	14624
50°	4978	13099	5263
55°	2869	5418	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: 17980 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2140.6	28.3
10°-20°	3447.5	45.5
20°-30°	1489.8	19.7
30°-40°	339.5	4.5
40°-50°	116.6	1.5
50°-60°	28.5	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°	7077.9	93.5
0°-40°	7417.4	98.0
0°-60°	7562.5	99.9
0°-90°	7570.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7570.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	24343	24343	24343	24343	24343	
5°	23555	23532	23527	23576	23556	2142
15°	12907	12751	12837	12796	12773	3456
25°	3033	3148	3421	3068	2971	1452
35°	509	520	488	484	409	345
45°	134	166	166	166	135	95
55°	22	23	41	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°	24343.4	24343.4	24343.4	24343.4	24343.4
2.5°	24182.0	24165.3	24174.9	24186.8	24191.6
5°	23554.6	23531.8	23527.1	23576.1	23555.7
7.5°	22288.9	22256.6	22207.6	22318.7	22422.7
10°	20168.6	20132.8	20026.4	20079.0	20163.8
12.5°	17038.4	16922.5	16920.1	17087.4	17064.7
15°	12906.7	12751.3	12837.4	12795.6	12772.9
17.5°	8679.4	8619.6	8734.4	8699.7	8550.3
20°	6243.6	6259.1	6477.9	6367.9	6235.2
22.5°	4556.0	4612.2	4871.5	4588.3	4484.3
25°	3033.4	3148.1	3420.6	3068.0	2971.2
27.5°	1865.7	1918.3	2194.3	1841.8	1789.2
30°	1160.5	1134.2	1264.5	1085.2	1011.1
32.5°	761.3	727.9	769.7	690.8	631.1
35°	509.1	519.9	487.6	484.0	408.8
37.5°	317.9	365.7	322.7	344.2	262.9
40°	205.6	265.3	228.3	252.2	193.6
42.5°	168.5	204.4	187.6	199.6	172.1
45°	133.9	166.1	166.1	166.1	135.1
47.5°	74.1	111.2	142.2	113.5	78.9
50°	41.8	56.2	110.0	58.6	44.2
52.5°	28.7	32.3	75.3	33.5	29.9
55°	21.5	22.7	40.6	23.9	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°	9.6	9.6	10.8	9.6	9.6
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

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Scaled Data Report







— 0°-180°    - - 45°-225°    - - - - 90°-270°

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(END OF REPORT)