

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: P754553

Luminaire Tested: LD4D85BD010-EU4DR3070959024-4LBS1H

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P754553  
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: LD4D85BD010-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: 7136.4 lumens  
Efficiency: N/A  
Efficacy: 81.4 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): 87.7  
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

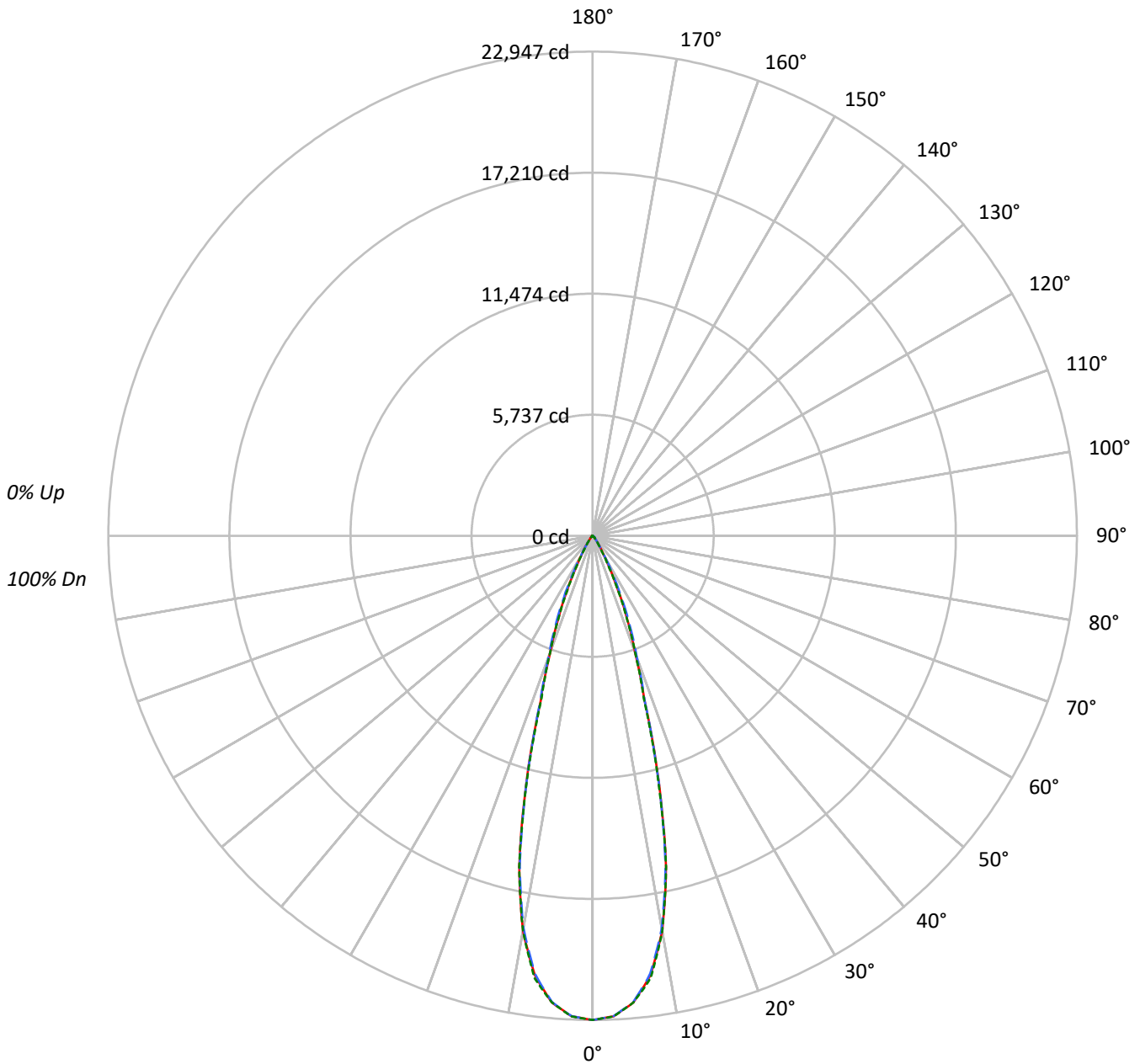


Downlight

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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°	1756426	1756426	1756426
5°	1706000	1704010	1706085
10°	1477654	1467239	1477304
15°	964101	958918	954100
20°	479400	497385	478756
25°	241486	272321	236545
30°	96684	105355	84239
35°	44843	42955	36003
40°	19365	21503	18235
45°	13661	16952	13780
50°	4692	12337	4966
55°	2709	5111	2856
60°	1898	2235	1898
65°	1232	1232	1232
70°	761	515	761
75°	0	325	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 16952 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2017.8	28.3
10°-20°	3249.7	45.5
20°-30°	1404.3	19.7
30°-40°	320.1	4.5
40°-50°	109.9	1.5
50°-60°	26.8	0.4
60°-70°	7.0	0.1
70°-80°	0.7	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°	6671.8	93.5
0°-40°	6991.9	98.0
0°-60°	7128.7	99.9
0°-90°	7136.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7136.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	22947	22947	22947	22947	22947	
5°	22203	22182	22177	22224	22204	2019
15°	12166	12020	12101	12062	12040	3258
25°	2859	2968	3224	2892	2801	1369
35°	480	490	460	456	385	326
45°	126	157	157	157	127	90
55°	20	21	38	22	21	20
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°	22946.8	22946.8	22946.8	22946.8	22946.8
2.5°	22794.7	22778.9	22787.9	22799.2	22803.7
5°	22203.2	22181.8	22177.3	22223.5	22204.3
7.5°	21010.1	20979.7	20933.5	21038.3	21136.3
10°	19011.5	18977.7	18877.5	18927.0	19007.0
12.5°	16060.9	15951.7	15949.4	16107.1	16085.7
15°	12166.3	12019.8	12100.9	12061.5	12040.1
17.5°	8181.4	8125.1	8233.3	8200.6	8059.8
20°	5885.4	5900.1	6106.2	6002.6	5877.5
22.5°	4294.6	4347.6	4592.1	4325.1	4227.0
25°	2859.3	2967.5	3224.4	2892.0	2800.8
27.5°	1758.6	1808.2	2068.5	1736.1	1686.5
30°	1093.9	1069.2	1192.0	1023.0	953.1
32.5°	717.7	686.1	725.5	651.2	594.8
35°	479.9	490.1	459.7	456.3	385.3
37.5°	299.7	344.7	304.2	324.5	247.9
40°	193.8	250.1	215.2	237.7	182.5
42.5°	158.9	192.7	176.9	188.1	162.2
45°	126.2	156.6	156.6	156.6	127.3
47.5°	69.8	104.8	134.1	107.0	74.4
50°	39.4	53.0	103.6	55.2	41.7
52.5°	27.0	30.4	71.0	31.5	28.2
55°	20.3	21.4	38.3	22.5	21.4
57.5°	15.8	16.9	20.3	16.9	15.8
60°	12.4	12.4	14.6	13.5	12.4
62.5°	9.0	9.0	10.1	9.0	9.0
65°	6.8	6.8	6.8	6.8	6.8
67.5°	3.4	4.5	4.5	4.5	4.5
70°	3.4	2.3	2.3	2.3	3.4
72.5°	2.3	1.1	1.1	1.1	1.1
75°	0.0	0.0	1.1	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)