

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: P754579

Luminaire Tested: LD4D85BD010-EU4DR3070959030-4LBS1H

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P754579  
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-EU4DR3070959030-4LBS1H  
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8328.2 lumens  
Efficiency: N/A  
Efficacy: 95.0 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

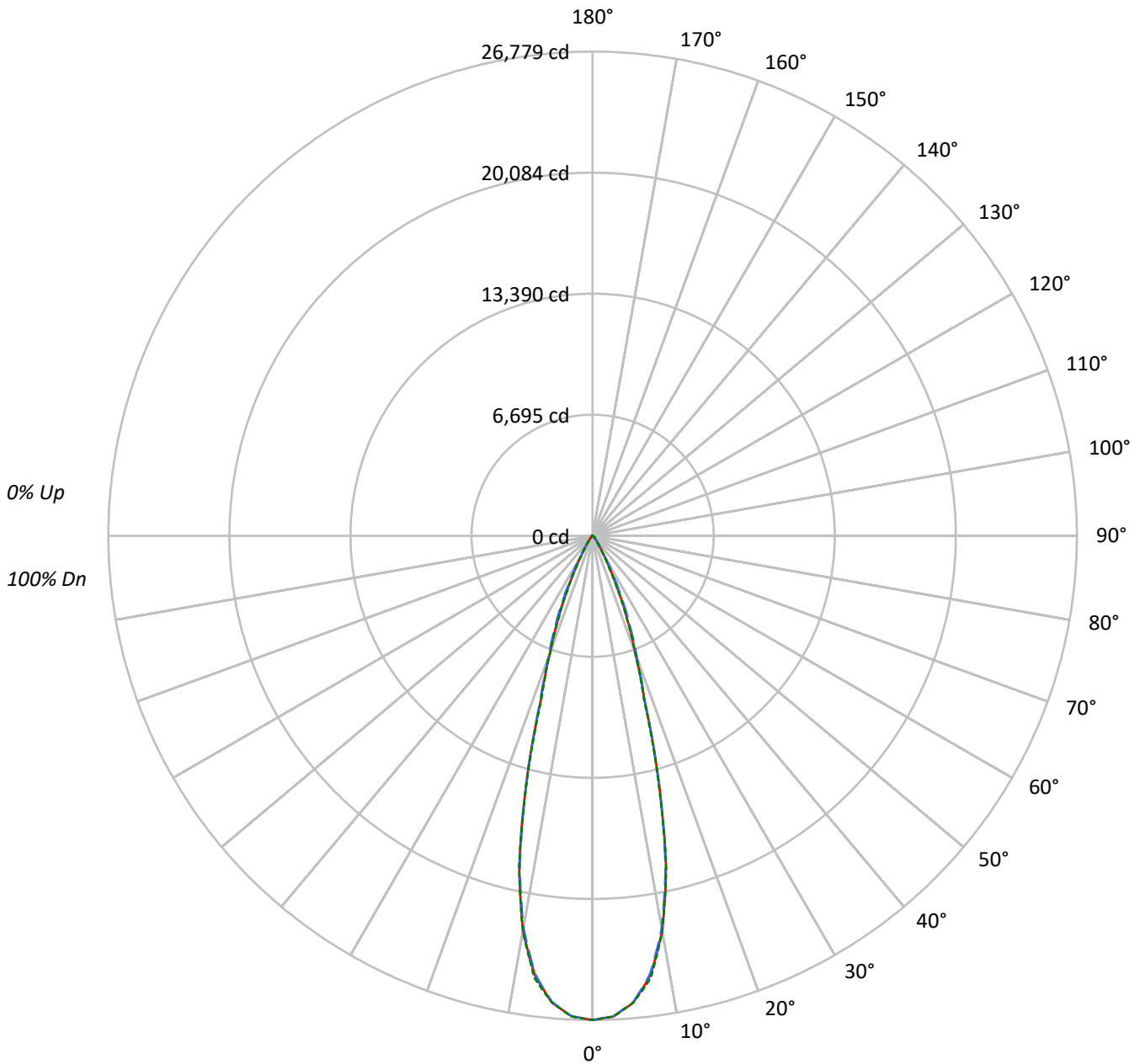


Downlight

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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	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°	2049771	2049771	2049771
5°	1990923	1988602	1991022
10°	1724444	1712280	1724032
15°	1125116	1119070	1113443
20°	559463	580454	558713
25°	281822	317801	276045
30°	112832	122943	98310
35°	52337	50122	42021
40°	22592	25090	21283
45°	15945	19788	16086
50°	5478	14409	5787
55°	3163	5965	3336
60°	2220	2618	2220
65°	1431	1431	1431
70°	873	582	873
75°	0	384	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 19788 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2354.8	28.3
10°-20°	3792.5	45.5
20°-30°	1638.8	19.7
30°-40°	373.5	4.5
40°-50°	128.3	1.5
50°-60°	31.3	0.4
60°-70°	8.1	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°	7786.1	93.5
0°-40°	8159.6	98.0
0°-60°	8319.2	99.9
0°-90°	8328.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8328.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	26779	26779	26779	26779	26779	
5°	25911	25886	25881	25935	25913	2357
15°	14198	14027	14122	14076	14051	3802
25°	3337	3463	3763	3375	3268	1597
35°	560	572	536	532	450	380
45°	147	183	183	183	149	105
55°	24	25	45	26	25	23
65°	8	8	8	8	8	8
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°	26779.2	26779.2	26779.2	26779.2	26779.2
2.5°	26601.7	26583.3	26593.8	26606.9	26612.2
5°	25911.4	25886.5	25881.2	25935.1	25912.7
7.5°	24519.1	24483.6	24429.7	24552.0	24666.3
10°	22186.7	22147.3	22030.2	22088.1	22181.4
12.5°	18743.3	18615.8	18613.2	18797.2	18772.2
15°	14198.2	14027.3	14121.9	14075.9	14050.9
17.5°	9547.8	9482.1	9608.3	9570.2	9405.8
20°	6868.3	6885.4	7126.0	7005.1	6859.1
22.5°	5011.9	5073.7	5359.0	5047.4	4933.0
25°	3336.9	3463.1	3762.9	3375.0	3268.5
27.5°	2052.4	2110.2	2413.9	2026.1	1968.2
30°	1276.6	1247.7	1391.0	1193.8	1112.3
32.5°	837.5	800.7	846.7	759.9	694.2
35°	560.1	571.9	536.4	532.5	449.7
37.5°	349.7	402.3	355.0	378.7	289.2
40°	226.1	291.9	251.1	277.4	213.0
42.5°	185.4	224.8	206.4	219.6	189.3
45°	147.3	182.8	182.8	182.8	148.6
47.5°	81.5	122.3	156.5	124.9	86.8
50°	46.0	61.8	121.0	64.4	48.6
52.5°	31.6	35.5	82.8	36.8	32.9
55°	23.7	25.0	44.7	26.3	25.0
57.5°	18.4	19.7	23.7	19.7	18.4
60°	14.5	14.5	17.1	15.8	14.5
62.5°	10.5	10.5	11.8	10.5	10.5
65°	7.9	7.9	7.9	7.9	7.9
67.5°	3.9	5.3	5.3	5.3	5.3
70°	3.9	2.6	2.6	2.6	3.9
72.5°	2.6	1.3	1.3	1.3	1.3
75°	0.0	0.0	1.3	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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