

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: P755374

Luminaire Tested: LD4D90BD010-EU4DR3070959035-4LBS1MW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P755374  
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-EU4DR3070959035-4LBS1MW  
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8486.6 lumens  
Efficiency: N/A  
Efficacy: 85.8 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

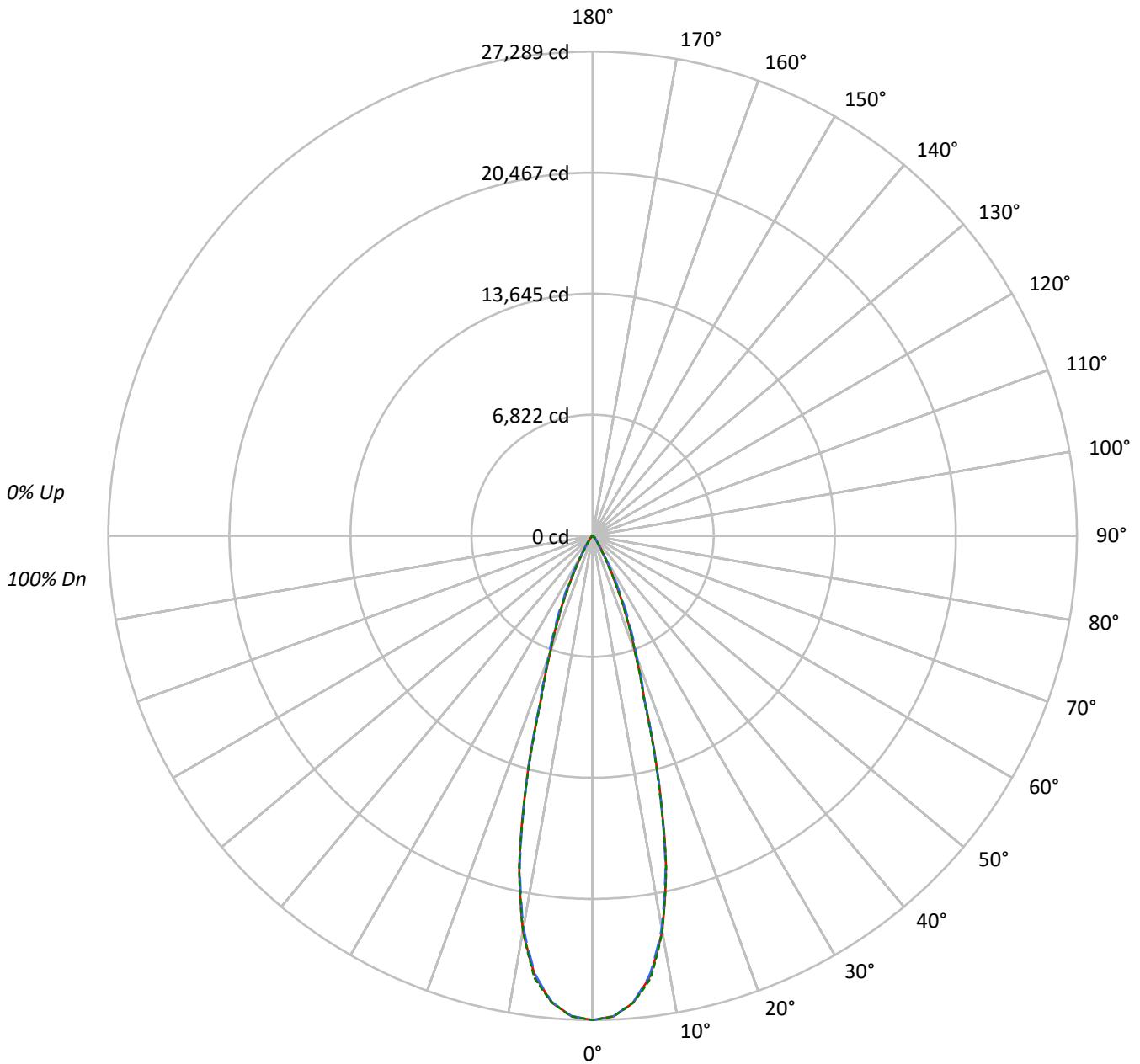


Downlight

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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°	2088770	2088770	2088770
5°	2028803	2026436	2028910
10°	1757251	1744862	1756839
15°	1146520	1140362	1134625
20°	570109	591499	569343
25°	287185	323848	281299
30°	114980	125285	100184
35°	53327	51076	42815
40°	23022	25570	21683
45°	16248	20156	16389
50°	5585	14683	5906
55°	3216	6085	3403
60°	2250	2664	2250
65°	1449	1449	1449
70°	895	604	895
75°	0	384	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 20156 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2399.6	28.3
10°-20°	3864.6	45.5
20°-30°	1670.0	19.7
30°-40°	380.6	4.5
40°-50°	130.7	1.5
50°-60°	31.9	0.4
60°-70°	8.3	0.1
70°-80°	0.9	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°	7934.2	93.5
0°-40°	8314.9	98.0
0°-60°	8477.5	99.9
0°-90°	8486.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8486.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	27289	27289	27289	27289	27289	
5°	26404	26379	26374	26428	26406	2402
15°	14468	14294	14391	14344	14318	3874
25°	3400	3529	3834	3439	3331	1628
35°	571	583	547	543	458	387
45°	150	186	186	186	151	107
55°	24	26	46	27	26	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°	27288.7	27288.7	27288.7	27288.7	27288.7
2.5°	27107.8	27089.1	27099.8	27113.2	27118.5
5°	26404.4	26379.0	26373.6	26428.5	26405.8
7.5°	24985.6	24949.4	24894.5	25019.1	25135.6
10°	22608.8	22568.6	22449.4	22508.3	22603.5
12.5°	19099.9	18970.0	18967.3	19154.9	19129.4
15°	14468.3	14294.1	14390.6	14343.7	14318.2
17.5°	9729.5	9662.5	9791.1	9752.3	9584.8
20°	6999.0	7016.4	7261.6	7138.4	6989.6
22.5°	5107.2	5170.2	5461.0	5143.4	5026.9
25°	3400.4	3529.0	3834.5	3439.2	3330.7
27.5°	2091.4	2150.3	2459.8	2064.6	2005.7
30°	1300.9	1271.5	1417.5	1216.5	1133.5
32.5°	853.4	815.9	862.8	774.4	707.4
35°	570.7	582.8	546.6	542.6	458.2
37.5°	356.4	410.0	361.7	385.9	294.8
40°	230.4	297.4	255.9	282.7	217.0
42.5°	188.9	229.1	210.3	223.7	192.9
45°	150.1	186.2	186.2	186.2	151.4
47.5°	83.1	124.6	159.4	127.3	88.4
50°	46.9	63.0	123.3	65.6	49.6
52.5°	32.2	36.2	84.4	37.5	33.5
55°	24.1	25.5	45.6	26.8	25.5
57.5°	18.8	20.1	24.1	20.1	18.8
60°	14.7	14.7	17.4	16.1	14.7
62.5°	10.7	10.7	12.1	10.7	10.7
65°	8.0	8.0	8.0	8.0	8.0
67.5°	4.0	5.4	5.4	5.4	5.4
70°	4.0	2.7	2.7	2.7	4.0
72.5°	2.7	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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