

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: P743895

Luminaire Tested: LD4D20D010-EU4DR1515309030-4LBS1MW

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P743895  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-21)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D20D010-EU4DR1515309030-4LBS1MW  
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1862.2 lumens  
Efficiency: N/A  
Efficacy: 80.6 lumens/watt  
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.23  
Luminous Opening: Vertical Cylinder (Dia: 0.35' x H: 0.35')  
CIE Type: Direct

Input Watts (W): 23.1  
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

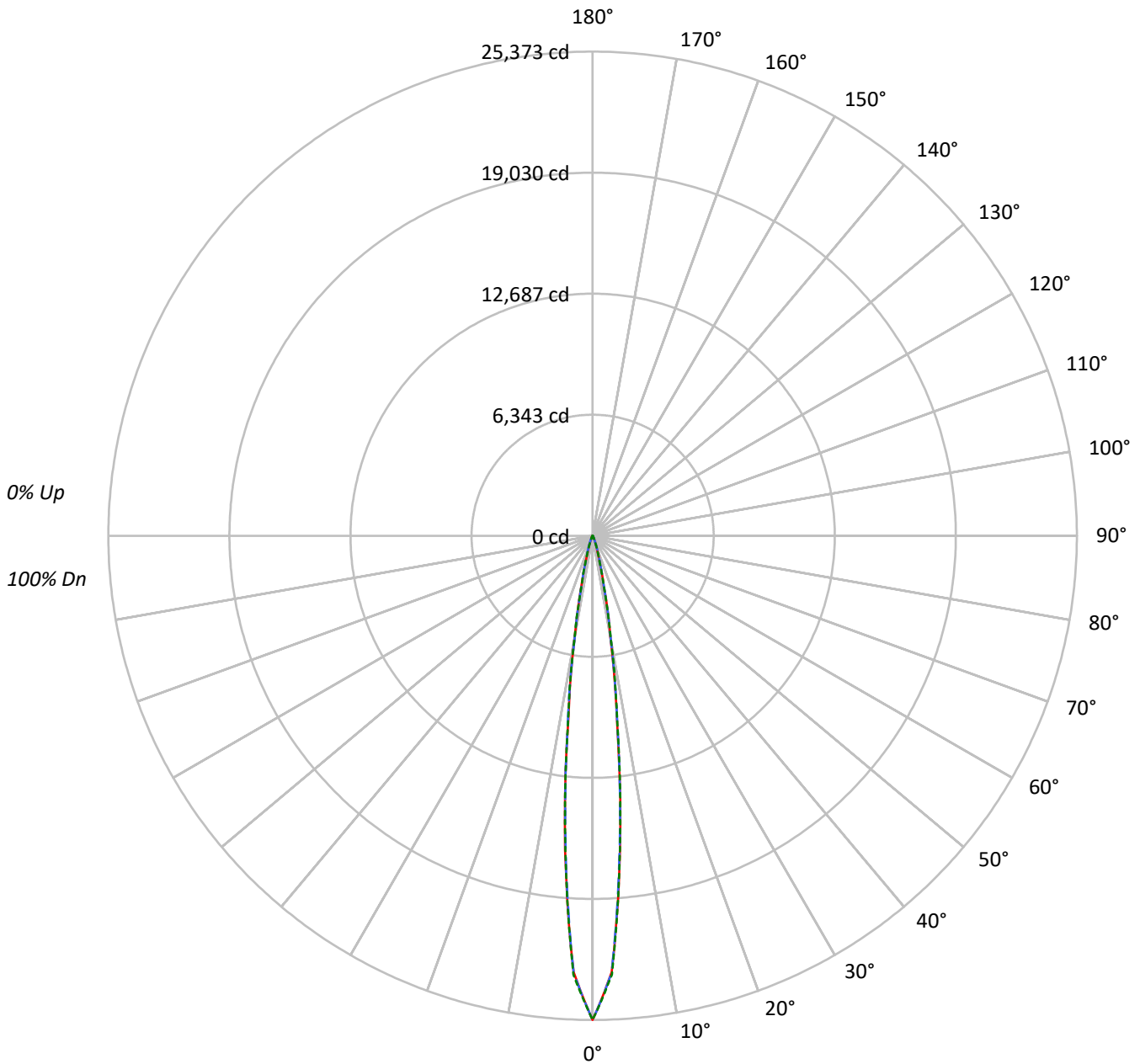


Downlight



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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	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98						98													
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	98	98	96						96													
3	110	106	103	101	108	105	102	100	103	100	99	100	99	97	98	97	96	94						94													
4	108	103	100	98	106	102	99	97	100	98	96	99	97	95	97	95	94	93						93													
5	106	101	98	95	104	100	97	95	98	96	94	97	95	93	96	94	92	92						92													
6	104	99	95	93	102	98	95	93	97	94	92	96	93	92	95	93	91	90						90													
7	102	97	94	91	101	96	93	91	95	93	91	94	92	90	93	91	90	89						89													
8	100	95	92	90	99	95	92	90	94	91	89	93	91	89	92	90	89	88						88													
9	99	93	90	88	98	93	90	88	92	90	88	92	89	88	91	89	88	87						87													
10	97	92	89	87	96	92	89	87	91	89	87	91	88	87	90	88	86	86						86													

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

	0°	45°	90°
0°	2855014	2855014	2855014
5°	1677741	1656023	1669123
10°	500726	504234	511951
15°	124553	126976	123059
20°	37262	43153	38056
25°	13134	16733	13305
30°	4822	6357	4905
35°	2418	2730	2338
40°	1527	1676	1527
45°	1127	1204	1127
50°	897	897	897
55°	745	745	745
60°	604	604	604
65°	457	457	457
70°	395	395	395
75°	242	242	325
80°	166	166	166
85°	91	91	91

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 1204 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1207.8	64.9
10°-20°	496.8	26.7
20°-30°	98.7	5.3
30°-40°	24.6	1.3
40°-50°	12.9	0.7
50°-60°	9.6	0.5
60°-70°	6.8	0.4
70°-80°	3.8	0.2
80°-90°	1.2	0.1
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°	1803.3	96.8
0°-40°	1827.9	98.2
0°-60°	1850.5	99.4
0°-90°	1862.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1862.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	25373	25373	25373	25373	25373	
5°	16508	16339	16295	16408	16424	1206
15°	1434	1461	1462	1436	1417	492
25°	169	191	215	190	171	89
35°	33	35	38	35	32	23
45°	16	16	17	16	16	13
55°	11	11	11	11	11	10
65°	6	6	6	6	6	7
75°	3	3	3	3	4	4
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	25373.4	25373.4	25373.4	25373.4	25373.4
2.5°	22887.9	22907.2	22914.7	22937.3	23021.1
5°	16508.5	16338.8	16294.8	16407.5	16423.7
7.5°	9779.0	9813.4	9939.1	9967.0	9866.0
10°	5366.4	5410.5	5404.0	5442.7	5486.7
12.5°	2744.4	2710.1	2699.3	2743.4	2682.1
15°	1434.0	1460.8	1461.9	1436.1	1416.8
17.5°	771.2	802.4	853.9	812.1	747.6
20°	455.4	483.4	527.4	493.0	465.1
22.5°	281.4	304.0	335.1	308.3	285.7
25°	168.6	191.2	214.8	190.1	170.8
27.5°	99.9	119.2	134.3	118.2	98.8
30°	64.4	75.2	84.9	74.1	65.5
32.5°	45.1	49.4	53.7	49.4	45.1
35°	33.3	35.4	37.6	35.4	32.2
37.5°	25.8	27.9	29.0	26.9	24.7
40°	21.5	22.6	23.6	22.6	21.5
42.5°	18.3	19.3	19.3	19.3	18.3
45°	16.1	16.1	17.2	16.1	16.1
47.5°	14.0	14.0	15.0	14.0	14.0
50°	12.9	12.9	12.9	12.9	12.9
52.5°	11.8	11.8	11.8	11.8	11.8
55°	10.7	10.7	10.7	10.7	10.7
57.5°	9.7	9.7	9.7	9.7	9.7
60°	8.6	8.6	8.6	8.6	8.6
62.5°	7.5	7.5	7.5	7.5	7.5
65°	6.4	6.4	6.4	6.4	6.4
67.5°	6.4	6.4	6.4	6.4	6.4
70°	5.4	5.4	5.4	5.4	5.4
72.5°	4.3	4.3	4.3	4.3	4.3
75°	3.2	3.2	3.2	3.2	4.3
77.5°	3.2	3.2	3.2	3.2	3.2
80°	2.1	2.1	2.1	2.1	2.1
82.5°	2.1	2.1	2.1	2.1	2.1
85°	1.1	1.1	1.1	1.1	1.1
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)