

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: P743917

Luminaire Tested: LD4D20D010-EU4DR1515309040-4LBDP1MW

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P743917  
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-EU4DR1515309040-4LBDP1MW  
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1956.9 lumens  
Efficiency: N/A  
Efficacy: 84.7 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 (Ain): 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



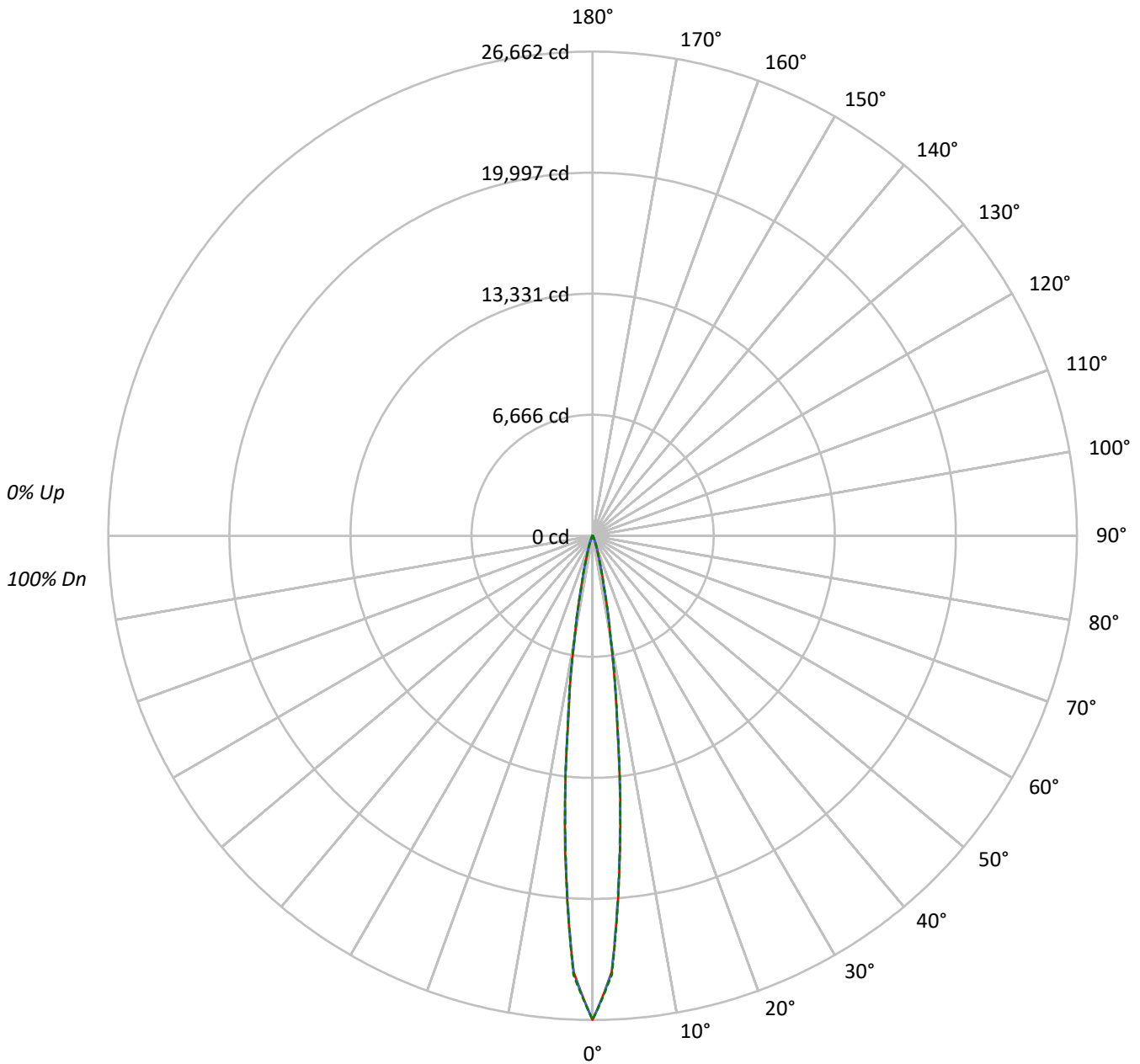
Downlight



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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°	2999962	2999962	2999962
5°	1762916	1740090	1753851
10°	526152	529838	537946
15°	130876	133421	129304
20°	39160	45346	39987
25°	13804	17582	13983
30°	5069	6679	5152
35°	2542	2868	2462
40°	1605	1761	1605
45°	1183	1267	1183
50°	939	939	939
55°	787	787	787
60°	632	632	632
65°	485	485	485
70°	410	410	410
75°	257	257	340
80°	181	181	181
85°	91	91	91

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 1267 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1269.1	64.9
10°-20°	522.0	26.7
20°-30°	103.7	5.3
30°-40°	25.9	1.3
40°-50°	13.6	0.7
50°-60°	10.1	0.5
60°-70°	7.1	0.4
70°-80°	4.1	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°	1894.9	96.8
0°-40°	1920.7	98.2
0°-60°	1944.4	99.4
0°-90°	1956.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1956.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	26662	26662	26662	26662	26662	
5°	17347	17168	17122	17240	17257	1267
15°	1507	1535	1536	1509	1489	517
25°	177	201	226	200	180	93
35°	35	37	40	37	34	24
45°	17	17	18	17	17	13
55°	11	11	11	11	11	10
65°	7	7	7	7	7	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°	26661.6	26661.6	26661.6	26661.6	26661.6
2.5°	24049.8	24070.1	24078.0	24101.7	24189.8
5°	17346.6	17168.3	17122.0	17240.5	17257.4
7.5°	10275.5	10311.6	10443.6	10473.0	10366.9
10°	5638.9	5685.1	5678.4	5719.0	5765.3
12.5°	2883.8	2847.6	2836.4	2882.6	2818.3
15°	1506.8	1535.0	1536.1	1509.0	1488.7
17.5°	810.4	843.1	897.3	853.3	785.6
20°	478.6	507.9	554.2	518.1	488.7
22.5°	295.7	319.4	352.1	323.9	300.2
25°	177.2	200.9	225.7	199.8	179.5
27.5°	105.0	125.3	141.1	124.2	103.8
30°	67.7	79.0	89.2	77.9	68.8
32.5°	47.4	51.9	56.4	51.9	47.4
35°	35.0	37.2	39.5	37.2	33.9
37.5°	27.1	29.3	30.5	28.2	26.0
40°	22.6	23.7	24.8	23.7	22.6
42.5°	19.2	20.3	20.3	20.3	19.2
45°	16.9	16.9	18.1	16.9	16.9
47.5°	14.7	14.7	15.8	14.7	14.7
50°	13.5	13.5	13.5	13.5	13.5
52.5°	12.4	12.4	12.4	12.4	12.4
55°	11.3	11.3	11.3	11.3	11.3
57.5°	10.2	10.2	10.2	10.2	10.2
60°	9.0	9.0	9.0	9.0	9.0
62.5°	7.9	7.9	7.9	7.9	7.9
65°	6.8	6.8	6.8	6.8	6.8
67.5°	6.8	6.8	6.8	6.8	6.8
70°	5.6	5.6	5.6	5.6	5.6
72.5°	4.5	4.5	4.5	4.5	4.5
75°	3.4	3.4	3.4	3.4	4.5
77.5°	3.4	3.4	3.4	3.4	3.4
80°	2.3	2.3	2.3	2.3	2.3
82.5°	2.3	2.3	2.3	2.3	2.3
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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