

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: P743923

Luminaire Tested: LD4D20D010-EU4DR1515309040-4LBSQW1MW

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P743923  
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-EU4DR1515309040-4LBSQW1MW  
Description: 4 INCH SQAURE 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: 1835.2 lumens  
Efficiency: N/A  
Efficacy: 79.4 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



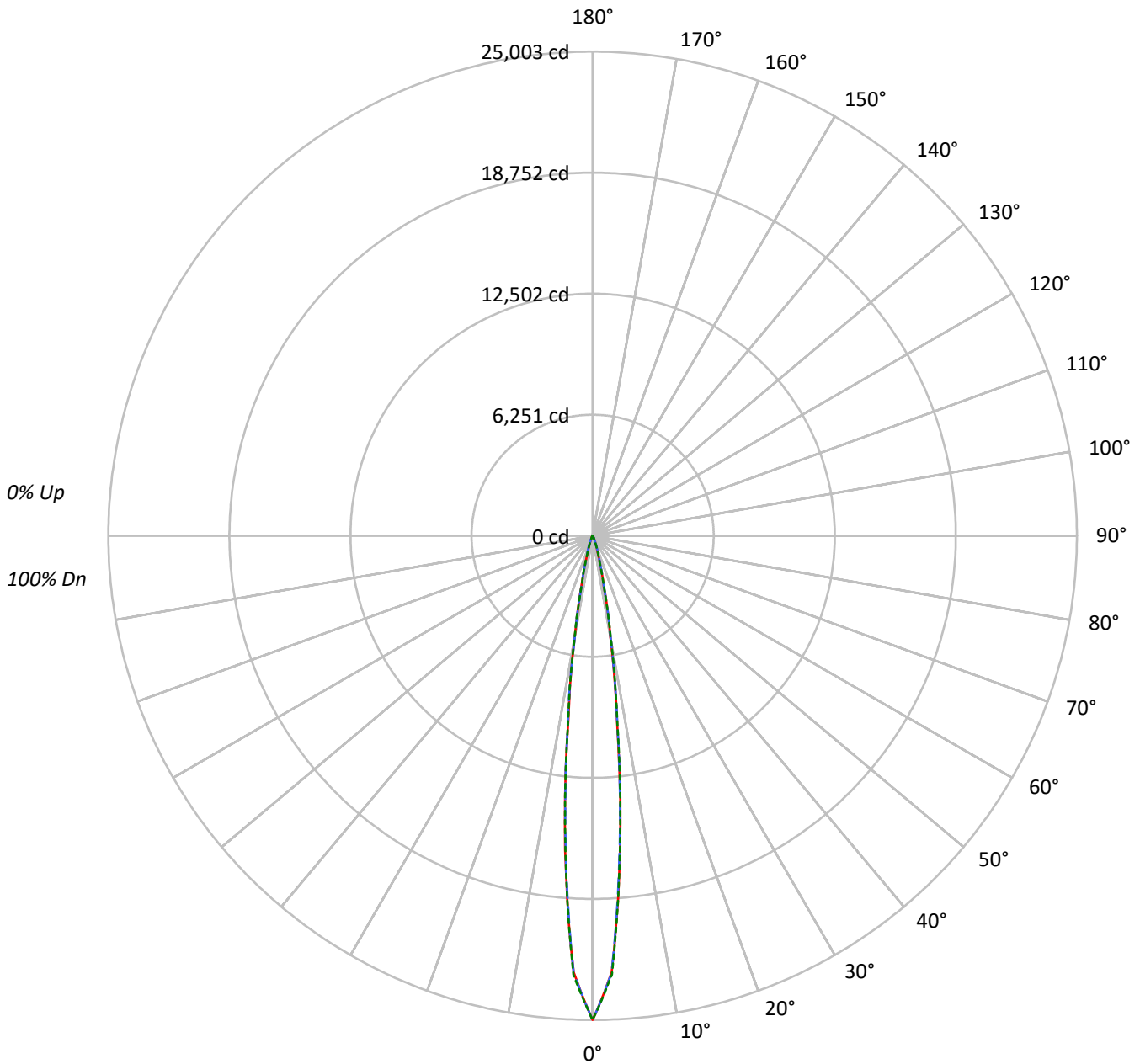
Downlight



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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	87	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°	2813370	2813370	2813370
5°	1653269	1631865	1644772
10°	493420	496882	504486
15°	122737	125126	121261
20°	36722	42523	37499
25°	12947	16492	13111
30°	4755	6260	4837
35°	2382	2687	2309
40°	1506	1655	1506
45°	1113	1183	1113
50°	883	883	883
55°	738	738	738
60°	597	597	597
65°	457	457	457
70°	388	388	388
75°	242	242	317
80°	166	166	166
85°	91	91	91

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 1183 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1190.2	64.9
10°-20°	489.6	26.7
20°-30°	97.2	5.3
30°-40°	24.3	1.3
40°-50°	12.8	0.7
50°-60°	9.5	0.5
60°-70°	6.7	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°	1777.0	96.8
0°-40°	1801.3	98.2
0°-60°	1823.5	99.4
0°-90°	1835.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1835.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	25003	25003	25003	25003	25003	
5°	16268	16100	16057	16168	16184	1188
15°	1413	1440	1441	1415	1396	484
25°	166	188	212	187	168	87
35°	33	35	37	35	32	22
45°	16	16	17	16	16	12
55°	11	11	11	11	11	9
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°	25003.3	25003.3	25003.3	25003.3	25003.3
2.5°	22554.0	22573.1	22580.5	22602.7	22685.3
5°	16267.7	16100.5	16057.1	16168.2	16184.1
7.5°	9636.4	9670.2	9794.1	9821.6	9722.1
10°	5288.1	5331.5	5325.2	5363.3	5406.7
12.5°	2704.4	2670.5	2660.0	2703.3	2643.0
15°	1413.1	1439.5	1440.6	1415.2	1396.1
17.5°	760.0	790.7	841.5	800.2	736.7
20°	448.8	476.3	519.7	485.8	458.3
22.5°	277.3	299.5	330.2	303.8	281.6
25°	166.2	188.4	211.7	187.4	168.3
27.5°	98.4	117.5	132.3	116.4	97.4
30°	63.5	74.1	83.6	73.0	64.6
32.5°	44.5	48.7	52.9	48.7	44.5
35°	32.8	34.9	37.0	34.9	31.8
37.5°	25.4	27.5	28.6	26.5	24.3
40°	21.2	22.2	23.3	22.2	21.2
42.5°	18.0	19.1	19.1	19.1	18.0
45°	15.9	15.9	16.9	15.9	15.9
47.5°	13.8	13.8	14.8	13.8	13.8
50°	12.7	12.7	12.7	12.7	12.7
52.5°	11.6	11.6	11.6	11.6	11.6
55°	10.6	10.6	10.6	10.6	10.6
57.5°	9.5	9.5	9.5	9.5	9.5
60°	8.5	8.5	8.5	8.5	8.5
62.5°	7.4	7.4	7.4	7.4	7.4
65°	6.4	6.4	6.4	6.4	6.4
67.5°	6.4	6.4	6.4	6.4	6.4
70°	5.3	5.3	5.3	5.3	5.3
72.5°	4.2	4.2	4.2	4.2	4.2
75°	3.2	3.2	3.2	3.2	4.2
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

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Scaled Data Report



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Scaled Data Report







— 0°-180°    - - 45°-225°    - - - - 90°-270°

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(END OF REPORT)