

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: P743928

Luminaire Tested: LD4D20D010-EU4DR1515309050-4LBDP1H

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P743928  
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-EU4DR1515309050-4LBDP1H  
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1996.6 lumens  
Efficiency: N/A  
Efficacy: 86.4 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



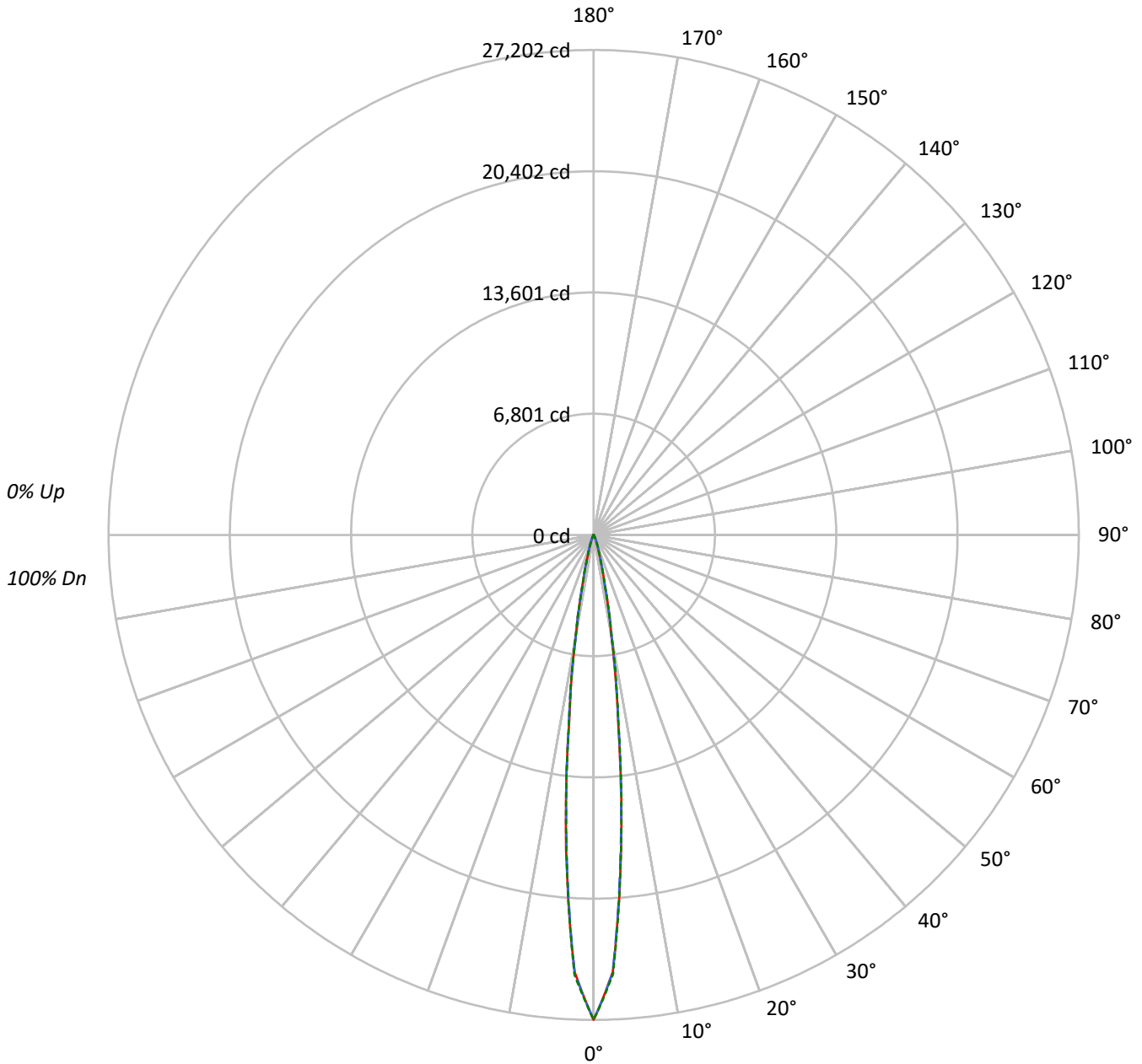
Downlight



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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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98																			
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	98	98	96																			
3	110	106	103	101	108	105	102	100	103	100	99	100	99	97	98	97	96	94																			
4	108	103	100	98	106	102	99	97	100	98	96	99	97	95	97	95	94	93																			
5	106	101	98	95	104	100	97	95	98	96	94	97	95	93	96	94	92	92																			
6	104	99	95	93	102	98	95	93	97	94	92	96	93	92	95	93	91	90																			
7	102	97	94	91	101	96	93	91	95	93	91	94	92	90	93	91	90	89																			
8	100	95	92	90	99	95	92	90	94	91	89	93	91	89	92	90	89	88																			
9	99	93	90	88	98	93	90	88	92	90	88	92	89	88	91	89	87	87																			
10	97	92	89	87	96	92	89	87	91	89	87	91	88	87	90	88	86	86																			

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

	0°	45°	90°
0°	3060801	3060801	3060801
5°	1798669	1775376	1789421
10°	536817	540578	548854
15°	133525	136131	131927
20°	39954	46263	40797
25°	14084	17941	14264
30°	5174	6814	5257
35°	2593	2927	2505
40°	1633	1797	1633
45°	1211	1288	1211
50°	960	960	960
55°	800	800	800
60°	646	646	646
65°	492	492	492
70°	424	424	424
75°	265	265	348
80°	181	181	181
85°	100	100	100

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 1288 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1294.9	64.9
10°-20°	532.6	26.7
20°-30°	105.8	5.3
30°-40°	26.4	1.3
40°-50°	13.9	0.7
50°-60°	10.3	0.5
60°-70°	7.3	0.4
70°-80°	4.2	0.2
80°-90°	1.3	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°	1933.3	96.8
0°-40°	1959.7	98.2
0°-60°	1983.9	99.4
0°-90°	1996.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1996.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	27202	27202	27202	27202	27202	
5°	17698	17516	17469	17590	17607	1292
15°	1537	1566	1567	1540	1519	527
25°	181	205	230	204	183	95
35°	36	38	40	38	34	24
45°	17	17	18	17	17	14
55°	12	12	12	12	12	10
65°	7	7	7	7	7	7
75°	4	4	4	4	5	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°	27202.3	27202.3	27202.3	27202.3	27202.3
2.5°	24537.5	24558.3	24566.3	24590.5	24680.3
5°	17698.4	17516.5	17469.2	17590.2	17607.4
7.5°	10483.8	10520.7	10655.4	10685.4	10577.1
10°	5753.2	5800.4	5793.5	5835.0	5882.2
12.5°	2942.2	2905.4	2893.9	2941.1	2875.5
15°	1537.3	1566.1	1567.3	1539.6	1518.9
17.5°	826.8	860.2	915.5	870.6	801.5
20°	488.3	518.2	565.4	528.6	498.6
22.5°	301.7	325.9	359.3	330.5	306.3
25°	180.8	205.0	230.3	203.8	183.1
27.5°	107.1	127.8	143.9	126.7	105.9
30°	69.1	80.6	91.0	79.5	70.2
32.5°	48.4	53.0	57.6	53.0	48.4
35°	35.7	38.0	40.3	38.0	34.5
37.5°	27.6	29.9	31.1	28.8	26.5
40°	23.0	24.2	25.3	24.2	23.0
42.5°	19.6	20.7	20.7	20.7	19.6
45°	17.3	17.3	18.4	17.3	17.3
47.5°	15.0	15.0	16.1	15.0	15.0
50°	13.8	13.8	13.8	13.8	13.8
52.5°	12.7	12.7	12.7	12.7	12.7
55°	11.5	11.5	11.5	11.5	11.5
57.5°	10.4	10.4	10.4	10.4	10.4
60°	9.2	9.2	9.2	9.2	9.2
62.5°	8.1	8.1	8.1	8.1	8.1
65°	6.9	6.9	6.9	6.9	6.9
67.5°	6.9	6.9	6.9	6.9	6.9
70°	5.8	5.8	5.8	5.8	5.8
72.5°	4.6	4.6	4.6	4.6	4.6
75°	3.5	3.5	3.5	3.5	4.6
77.5°	3.5	3.5	3.5	3.5	3.5
80°	2.3	2.3	2.3	2.3	2.3
82.5°	2.3	2.3	2.3	2.3	2.3
85°	1.2	1.2	1.2	1.2	1.2
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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