

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: P743893

Luminaire Tested: LD4D20D010-EU4DR1515309030-4LBS1H

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P743893  
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-EU4DR1515309030-4LBS1H  
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1960.3 lumens  
Efficiency: N/A  
Efficacy: 84.9 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

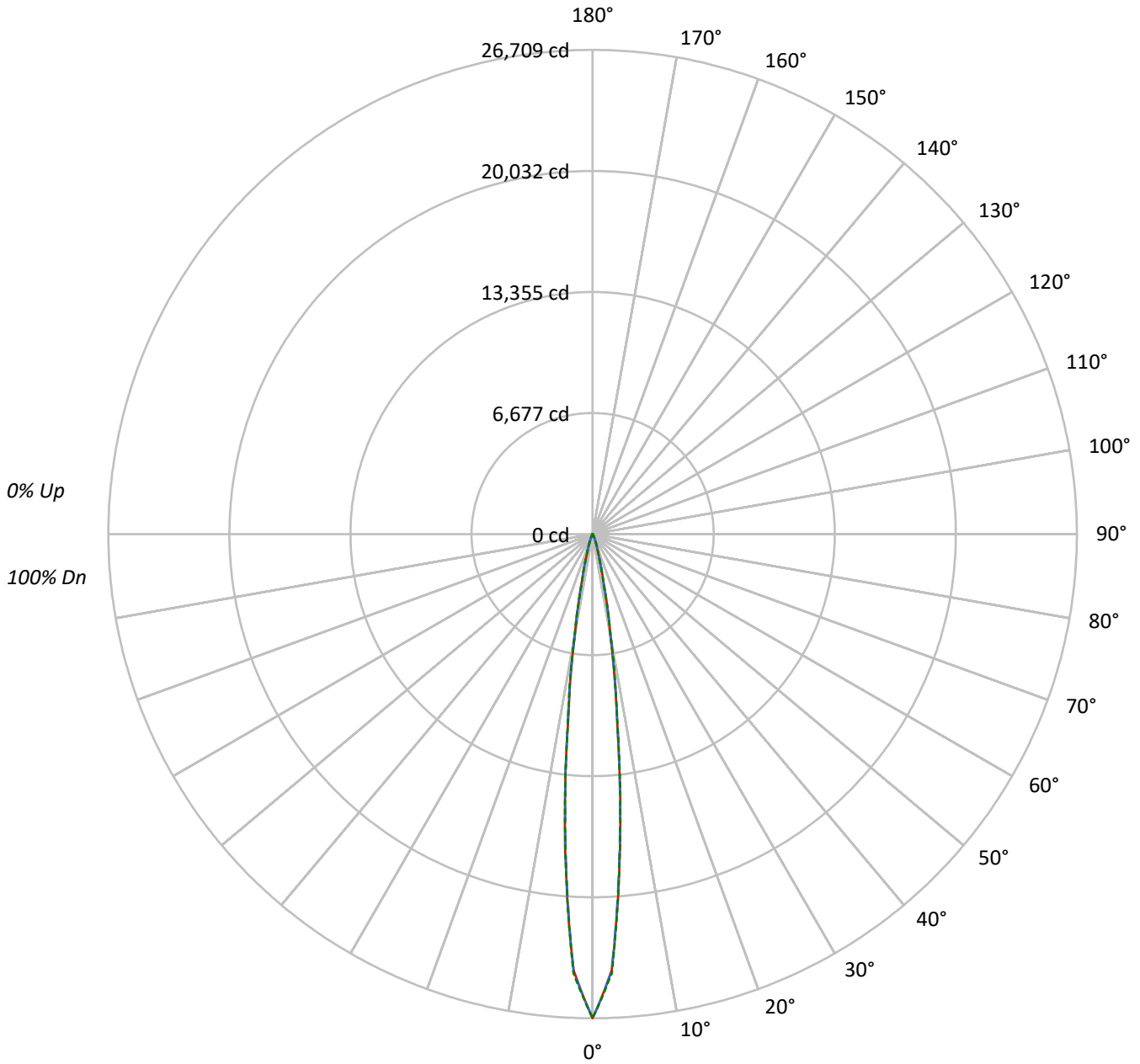


Downlight



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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	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	88	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°	3005295	3005295	3005295
5°	1766056	1743190	1756971
10°	527085	530780	538898
15°	131110	133664	129538
20°	39226	45428	40060
25°	13827	17613	14007
30°	5077	6687	5167
35°	2549	2876	2462
40°	1605	1768	1605
45°	1190	1267	1190
50°	946	946	946
55°	787	787	787
60°	632	632	632
65°	485	485	485
70°	417	417	417
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°	1271.4	64.9
10°-20°	523.0	26.7
20°-30°	103.9	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°	1898.2	96.8
0°-40°	1924.2	98.2
0°-60°	1947.9	99.4
0°-90°	1960.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1960.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	26709	26709	26709	26709	26709	
5°	17378	17199	17152	17271	17288	1269
15°	1510	1538	1539	1512	1491	518
25°	178	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°	26709.0	26709.0	26709.0	26709.0	26709.0
2.5°	24092.6	24112.9	24120.9	24144.6	24232.8
5°	17377.5	17198.8	17152.5	17271.2	17288.1
7.5°	10293.7	10329.9	10462.2	10491.6	10385.3
10°	5648.9	5695.2	5688.5	5729.2	5775.5
12.5°	2888.9	2852.7	2841.4	2887.8	2823.3
15°	1509.5	1537.7	1538.9	1511.7	1491.4
17.5°	811.8	844.6	898.9	854.8	787.0
20°	479.4	508.8	555.2	519.0	489.6
22.5°	296.2	320.0	352.8	324.5	300.8
25°	177.5	201.3	226.1	200.1	179.8
27.5°	105.2	125.5	141.3	124.4	104.0
30°	67.8	79.1	89.3	78.0	69.0
32.5°	47.5	52.0	56.5	52.0	47.5
35°	35.1	37.3	39.6	37.3	33.9
37.5°	27.1	29.4	30.5	28.3	26.0
40°	22.6	23.7	24.9	23.7	22.6
42.5°	19.2	20.4	20.4	20.4	19.2
45°	17.0	17.0	18.1	17.0	17.0
47.5°	14.7	14.7	15.8	14.7	14.7
50°	13.6	13.6	13.6	13.6	13.6
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°	5.7	5.7	5.7	5.7	5.7
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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(END OF REPORT)