

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: P743863

Luminaire Tested: LD4D20D010-EU4DR1515309024-4LBDP1H

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P743863  
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-EU4DR1515309024-4LBDP1H  
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1624.7 lumens  
Efficiency: N/A  
Efficacy: 70.3 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

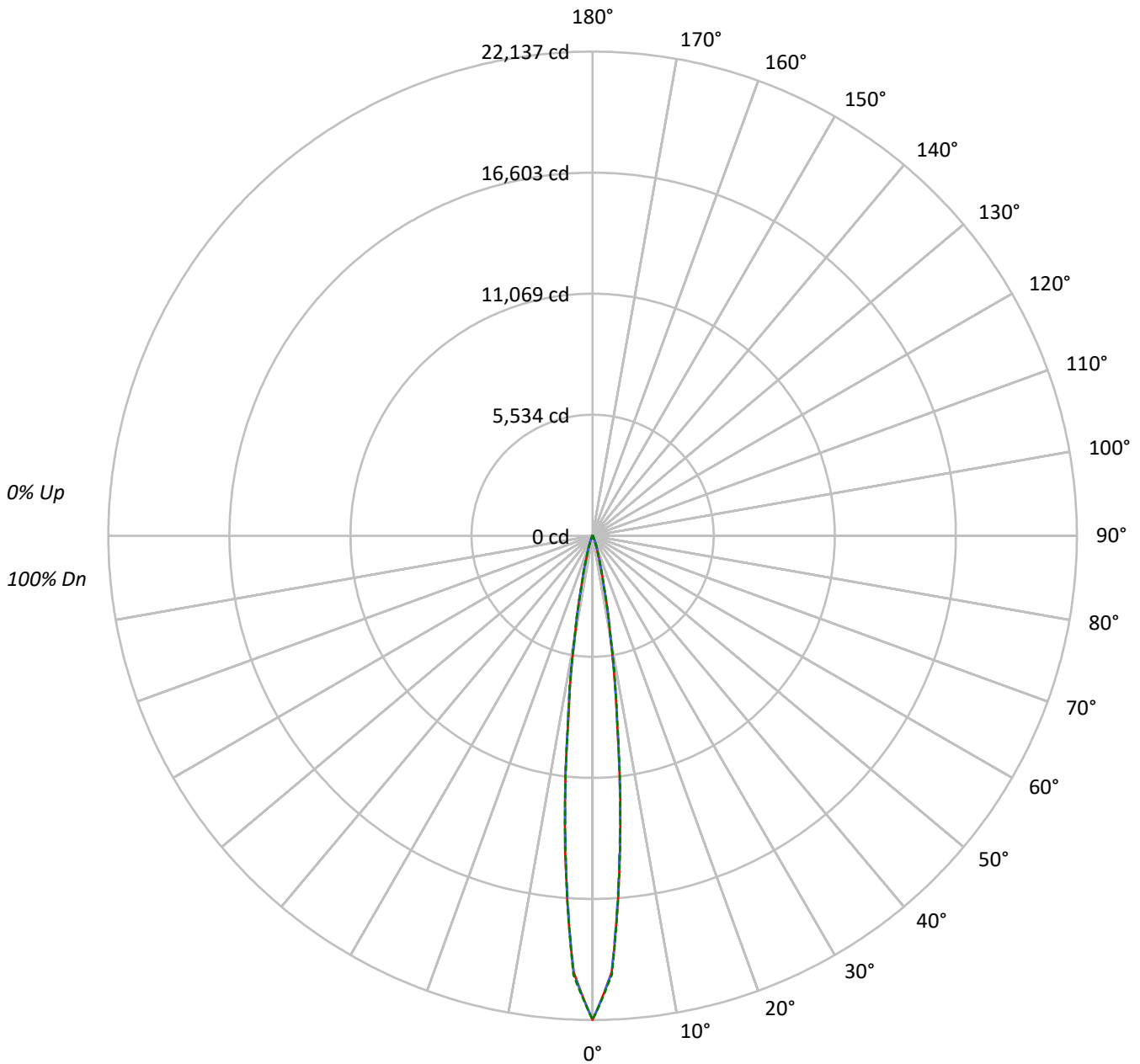


Downlight



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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°	2490820	2490820	2490820
5°	1463720	1444767	1456200
10°	436857	439917	446645
15°	108667	110777	107364
20°	32508	37647	33204
25°	11459	14599	11607
30°	4208	5541	4283
35°	2113	2382	2041
40°	1328	1463	1328
45°	987	1050	987
50°	779	779	779
55°	654	654	654
60°	527	527	527
65°	400	400	400
70°	344	344	344
75°	212	212	280
80°	150	150	150
85°	75	75	75

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 1050 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1053.8	64.9
10°-20°	433.4	26.7
20°-30°	86.1	5.3
30°-40°	21.5	1.3
40°-50°	11.3	0.7
50°-60°	8.4	0.5
60°-70°	5.9	0.4
70°-80°	3.4	0.2
80°-90°	1.0	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°	1573.3	96.8
0°-40°	1594.8	98.2
0°-60°	1614.4	99.4
0°-90°	1624.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1624.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	22137	22137	22137	22137	22137	
5°	14403	14255	14216	14314	14329	1052
15°	1251	1274	1275	1253	1236	429
25°	147	167	187	166	149	77
35°	29	31	33	31	28	20
45°	14	14	15	14	14	11
55°	9	9	9	9	9	8
65°	6	6	6	6	6	6
75°	3	3	3	3	4	3
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°	22136.7	22136.7	22136.7	22136.7	22136.7
2.5°	19968.2	19985.1	19991.6	20011.3	20084.4
5°	14402.6	14254.6	14216.1	14314.5	14328.6
7.5°	8531.6	8561.5	8671.2	8695.6	8607.5
10°	4681.9	4720.3	4714.7	4748.4	4786.8
12.5°	2394.3	2364.4	2355.0	2393.4	2340.0
15°	1251.1	1274.5	1275.4	1252.9	1236.1
17.5°	672.9	700.0	745.0	708.5	652.2
20°	397.3	421.7	460.1	430.1	405.8
22.5°	245.5	265.2	292.4	269.0	249.3
25°	147.1	166.8	187.4	165.9	149.0
27.5°	87.2	104.0	117.1	103.1	86.2
30°	56.2	65.6	74.0	64.7	57.2
32.5°	39.4	43.1	46.9	43.1	39.4
35°	29.1	30.9	32.8	30.9	28.1
37.5°	22.5	24.4	25.3	23.4	21.6
40°	18.7	19.7	20.6	19.7	18.7
42.5°	15.9	16.9	16.9	16.9	15.9
45°	14.1	14.1	15.0	14.1	14.1
47.5°	12.2	12.2	13.1	12.2	12.2
50°	11.2	11.2	11.2	11.2	11.2
52.5°	10.3	10.3	10.3	10.3	10.3
55°	9.4	9.4	9.4	9.4	9.4
57.5°	8.4	8.4	8.4	8.4	8.4
60°	7.5	7.5	7.5	7.5	7.5
62.5°	6.6	6.6	6.6	6.6	6.6
65°	5.6	5.6	5.6	5.6	5.6
67.5°	5.6	5.6	5.6	5.6	5.6
70°	4.7	4.7	4.7	4.7	4.7
72.5°	3.7	3.7	3.7	3.7	3.7
75°	2.8	2.8	2.8	2.8	3.7
77.5°	2.8	2.8	2.8	2.8	2.8
80°	1.9	1.9	1.9	1.9	1.9
82.5°	1.9	1.9	1.9	1.9	1.9
85°	0.9	0.9	0.9	0.9	0.9
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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