

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: P744869

Luminaire Tested: LD4D25D010-EU4DR1515309050-4LBS1LI

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P744869  
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: LD4D25D010-EU4DR1515309050-4LBS1LI  
Description: 4 INCH ROUND SHALLOW 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: 2851.5 lumens  
Efficiency: N/A  
Efficacy: 113.6 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): 25.1  
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

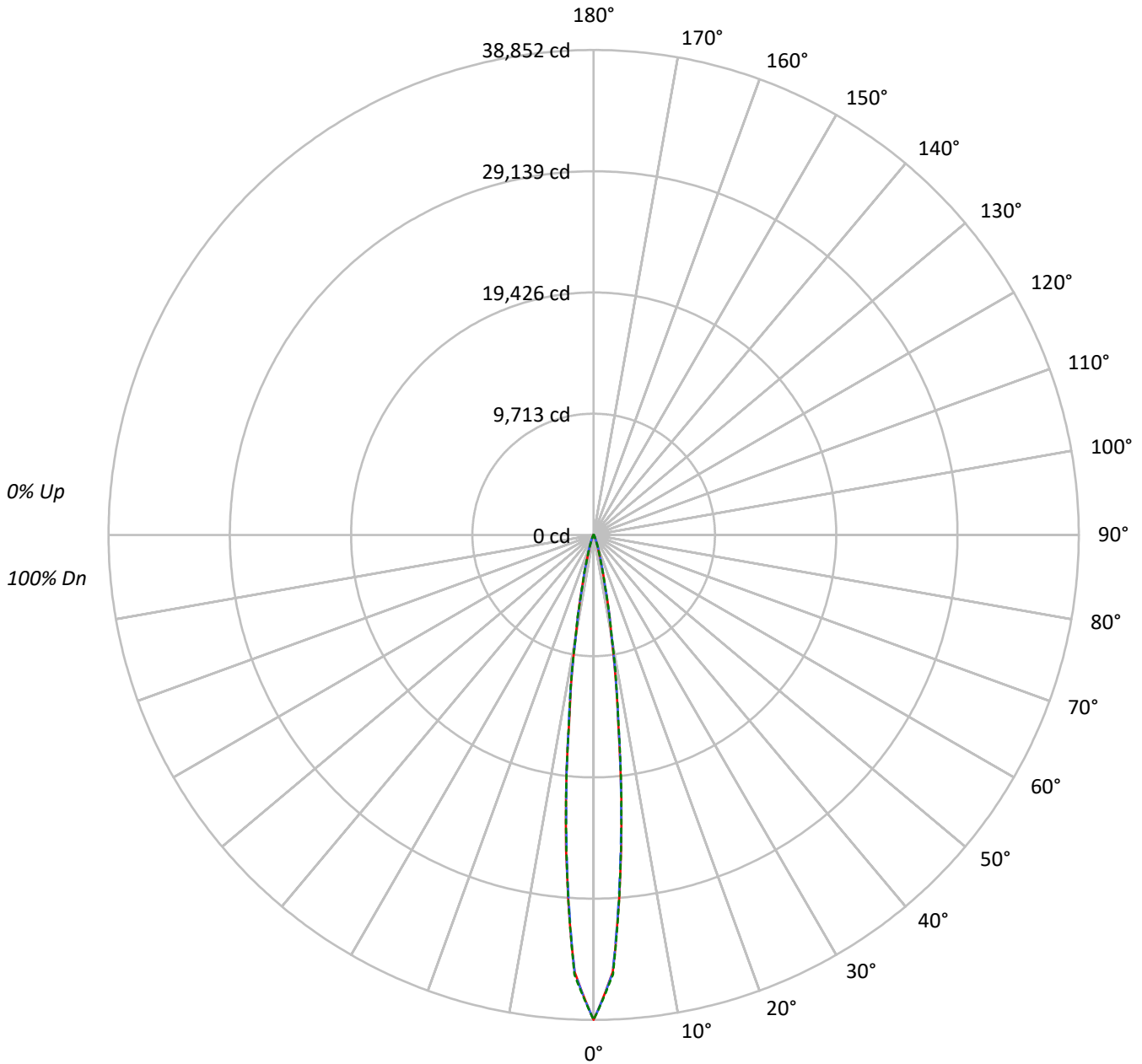


Downlight



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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°	4371569	4371569	4371569
5°	2568935	2535672	2555733
10°	766708	772083	783896
15°	190712	194429	188427
20°	57063	66080	58274
25°	20114	25622	20371
30°	7391	9727	7511
35°	3704	4183	3580
40°	2336	2571	2336
45°	1729	1841	1729
50°	1370	1370	1370
55°	1142	1142	1142
60°	927	927	927
65°	707	707	707
70°	600	600	600
75°	370	370	499
80°	260	260	260
85°	133	133	133

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 1841 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1849.4	64.9
10°-20°	760.7	26.7
20°-30°	151.1	5.3
30°-40°	37.7	1.3
40°-50°	19.8	0.7
50°-60°	14.7	0.5
60°-70°	10.4	0.4
70°-80°	5.9	0.2
80°-90°	1.8	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°	2761.2	96.8
0°-40°	2798.9	98.2
0°-60°	2833.4	99.4
0°-90°	2851.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2851.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	38852	38852	38852	38852	38852	
5°	25278	25018	24950	25123	25148	1846
15°	2196	2237	2238	2199	2169	753
25°	258	293	329	291	262	136
35°	51	54	58	54	49	35
45°	25	25	26	25	25	19
55°	16	16	16	16	16	15
65°	10	10	10	10	10	10
75°	5	5	5	5	7	6
85°	2	2	2	2	2	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	38851.5	38851.5	38851.5	38851.5	38851.5
2.5°	35045.6	35075.2	35086.7	35121.3	35249.6
5°	25277.6	25017.8	24950.3	25123.0	25147.7
7.5°	14973.5	15026.1	15218.6	15261.3	15106.7
10°	8217.0	8284.4	8274.6	8333.8	8401.2
12.5°	4202.2	4149.6	4133.2	4200.6	4106.9
15°	2195.7	2236.8	2238.5	2199.0	2169.4
17.5°	1180.9	1228.6	1307.5	1243.4	1144.7
20°	697.4	740.1	807.6	754.9	712.2
22.5°	430.9	465.5	513.2	472.0	437.5
25°	258.2	292.8	328.9	291.1	261.5
27.5°	153.0	182.6	205.6	180.9	151.3
30°	98.7	115.1	129.9	113.5	100.3
32.5°	69.1	75.7	82.2	75.7	69.1
35°	51.0	54.3	57.6	54.3	49.3
37.5°	39.5	42.8	44.4	41.1	37.8
40°	32.9	34.5	36.2	34.5	32.9
42.5°	28.0	29.6	29.6	29.6	28.0
45°	24.7	24.7	26.3	24.7	24.7
47.5°	21.4	21.4	23.0	21.4	21.4
50°	19.7	19.7	19.7	19.7	19.7
52.5°	18.1	18.1	18.1	18.1	18.1
55°	16.4	16.4	16.4	16.4	16.4
57.5°	14.8	14.8	14.8	14.8	14.8
60°	13.2	13.2	13.2	13.2	13.2
62.5°	11.5	11.5	11.5	11.5	11.5
65°	9.9	9.9	9.9	9.9	9.9
67.5°	9.9	9.9	9.9	9.9	9.9
70°	8.2	8.2	8.2	8.2	8.2
72.5°	6.6	6.6	6.6	6.6	6.6
75°	4.9	4.9	4.9	4.9	6.6
77.5°	4.9	4.9	4.9	4.9	4.9
80°	3.3	3.3	3.3	3.3	3.3
82.5°	3.3	3.3	3.3	3.3	3.3
85°	1.6	1.6	1.6	1.6	1.6
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)