

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: P742920

Luminaire Tested: LD4D15D010-EU4DR1515309035-4LBS1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P742920  
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: LD4D15D010-EU4DR1515309035-4LBS1B  
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1414.4 lumens  
Efficiency: N/A  
Efficacy: 89.5 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): 15.8  
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

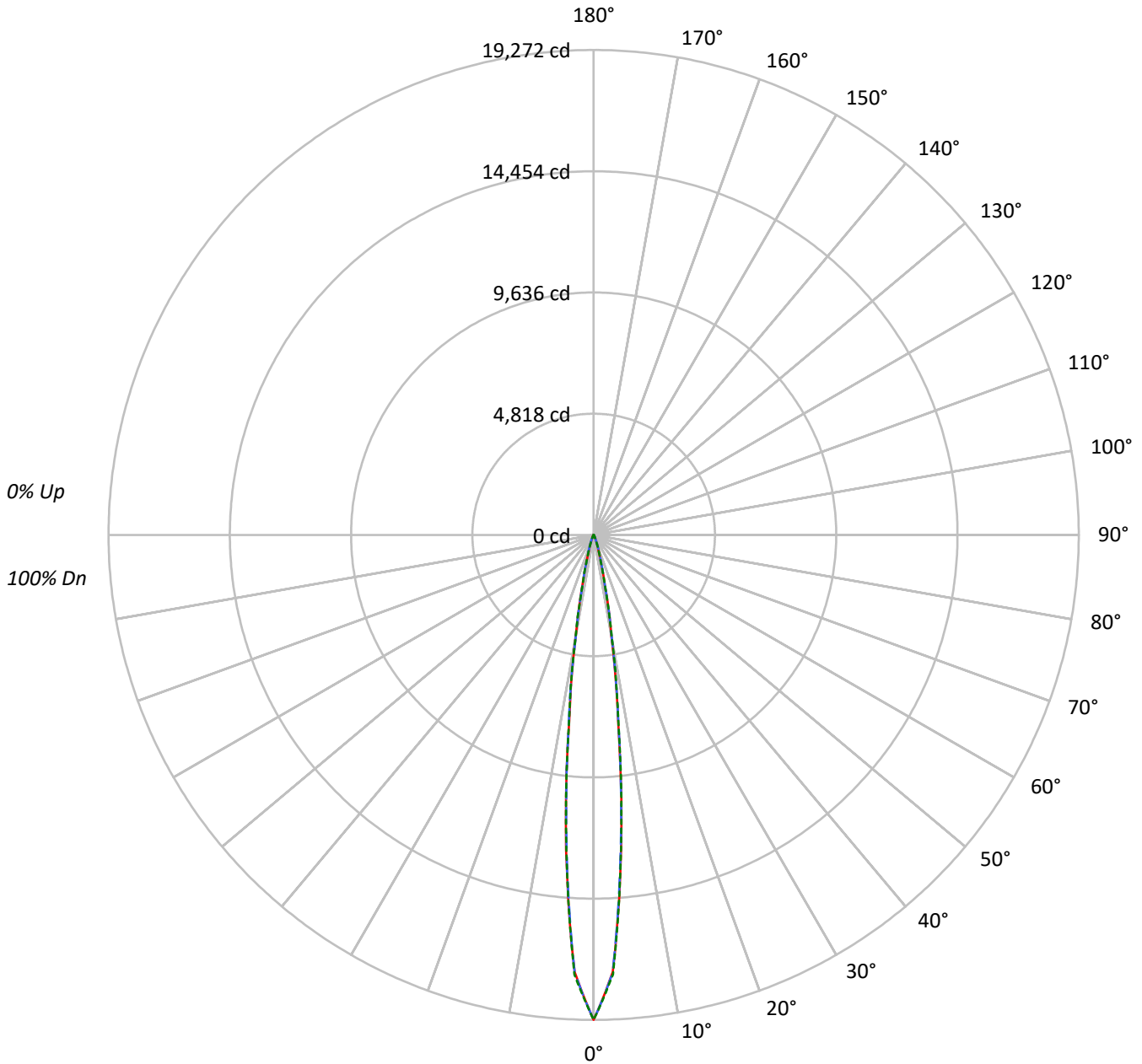


Downlight



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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°	2168484	2168484	2168484
5°	1274305	1257800	1267749
10°	380322	382981	388841
15°	94604	96446	93467
20°	28303	32778	28908
25°	9979	12713	10104
30°	3669	4830	3729
35°	1837	2077	1779
40°	1158	1271	1158
45°	854	917	854
50°	681	681	681
55°	571	571	571
60°	456	456	456
65°	350	350	350
70°	300	300	300
75°	181	181	249
80°	126	126	126
85°	66	66	66

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 917 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	917.4	64.9
10°-20°	377.3	26.7
20°-30°	75.0	5.3
30°-40°	18.7	1.3
40°-50°	9.8	0.7
50°-60°	7.3	0.5
60°-70°	5.1	0.4
70°-80°	2.9	0.2
80°-90°	0.9	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°	1369.7	96.8
0°-40°	1388.4	98.2
0°-60°	1405.5	99.4
0°-90°	1414.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1414.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	19272	19272	19272	19272	19272	
5°	12539	12410	12376	12462	12474	916
15°	1089	1110	1110	1091	1076	373
25°	128	145	163	144	130	67
35°	25	27	29	27	24	17
45°	12	12	13	12	12	10
55°	8	8	8	8	8	7
65°	5	5	5	5	5	5
75°	2	2	2	2	3	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°	19272.0	19272.0	19272.0	19272.0	19272.0
2.5°	17384.1	17398.8	17404.5	17421.6	17485.2
5°	12538.8	12409.9	12376.4	12462.1	12474.3
7.5°	7427.5	7453.6	7549.0	7570.2	7493.6
10°	4076.0	4109.4	4104.5	4133.9	4167.3
12.5°	2084.5	2058.4	2050.2	2083.7	2037.2
15°	1089.2	1109.6	1110.4	1090.8	1076.1
17.5°	585.8	609.4	648.6	616.8	567.8
20°	345.9	367.1	400.6	374.5	353.3
22.5°	213.8	230.9	254.5	234.1	217.0
25°	128.1	145.2	163.2	144.4	129.7
27.5°	75.9	90.6	102.0	89.7	75.1
30°	49.0	57.1	64.5	56.3	49.8
32.5°	34.3	37.5	40.8	37.5	34.3
35°	25.3	26.9	28.6	26.9	24.5
37.5°	19.6	21.2	22.0	20.4	18.8
40°	16.3	17.1	17.9	17.1	16.3
42.5°	13.9	14.7	14.7	14.7	13.9
45°	12.2	12.2	13.1	12.2	12.2
47.5°	10.6	10.6	11.4	10.6	10.6
50°	9.8	9.8	9.8	9.8	9.8
52.5°	9.0	9.0	9.0	9.0	9.0
55°	8.2	8.2	8.2	8.2	8.2
57.5°	7.3	7.3	7.3	7.3	7.3
60°	6.5	6.5	6.5	6.5	6.5
62.5°	5.7	5.7	5.7	5.7	5.7
65°	4.9	4.9	4.9	4.9	4.9
67.5°	4.9	4.9	4.9	4.9	4.9
70°	4.1	4.1	4.1	4.1	4.1
72.5°	3.3	3.3	3.3	3.3	3.3
75°	2.4	2.4	2.4	2.4	3.3
77.5°	2.4	2.4	2.4	2.4	2.4
80°	1.6	1.6	1.6	1.6	1.6
82.5°	1.6	1.6	1.6	1.6	1.6
85°	0.8	0.8	0.8	0.8	0.8
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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