

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: P742943

Luminaire Tested: LD4D15D010-EU4DR1515309050-4LBDP1LI

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P742943  
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-EU4DR1515309050-4LBDP1LI  
Description: 4 INCH ROUND DEEP 45° CUTOFF 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: 1526.7 lumens  
Efficiency: N/A  
Efficacy: 96.6 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): 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

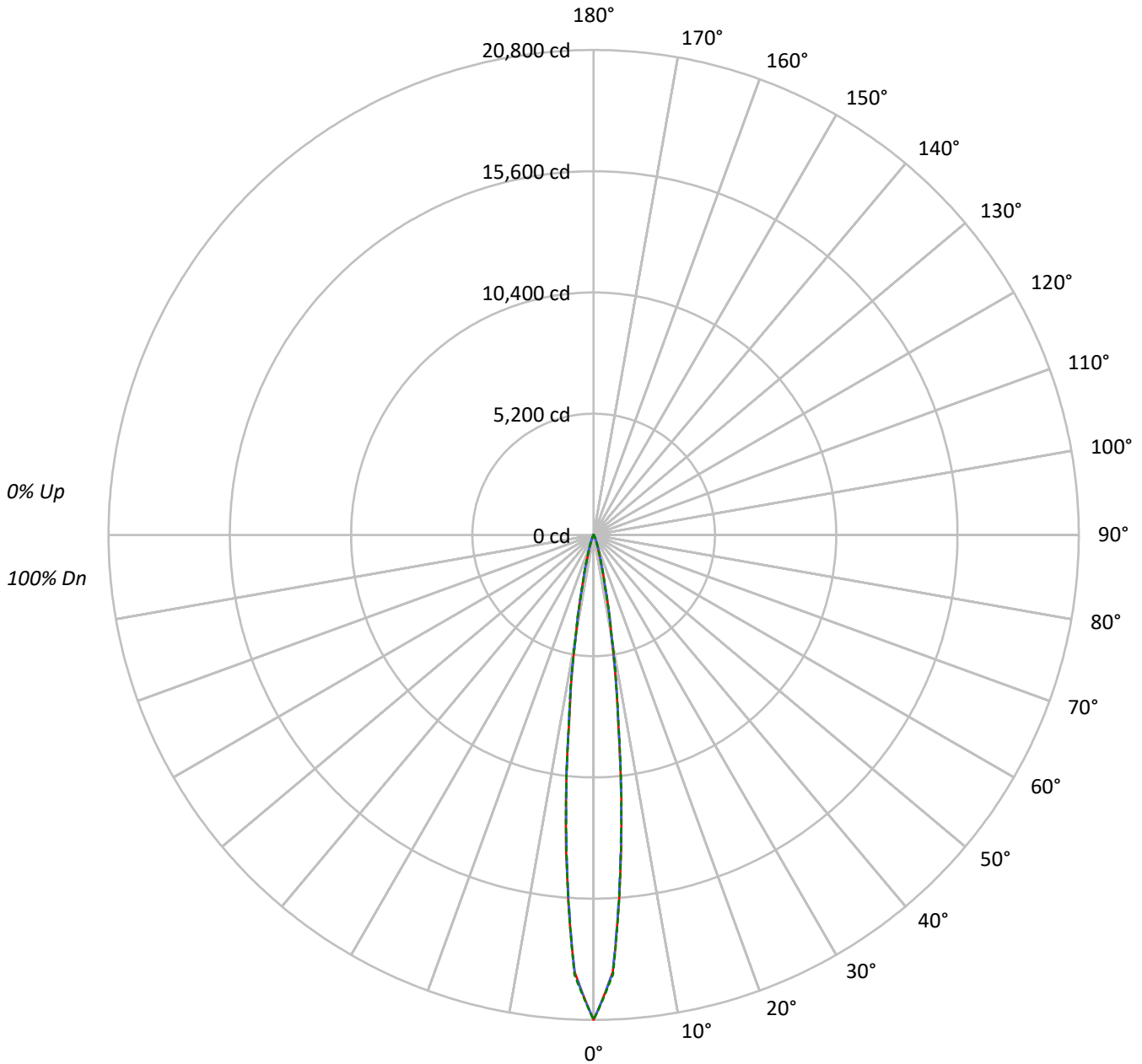


Downlight



TEST NUMBER: P742943  
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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	50	30	10	0													
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						100													
1	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98						98													
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	98	98	96						96													
3	110	106	103	101	108	105	102	100	103	100	99	100	99	97	98	97	96	94						94													
4	108	103	100	98	106	102	99	97	100	98	96	99	97	95	97	95	94	93						93													
5	106	101	98	95	104	100	97	95	98	96	94	97	95	93	96	94	92	92						92													
6	104	99	95	93	102	98	95	93	97	94	92	96	93	92	95	93	91	90						90													
7	102	97	94	91	101	96	93	91	95	93	91	94	92	90	93	91	90	89						89													
8	100	95	92	90	99	95	92	90	94	91	89	93	91	89	92	90	89	88						88													
9	99	93	90	88	98	93	90	88	92	90	88	92	89	88	91	89	88	87						87													
10	97	92	89	87	96	92	89	87	91	89	87	91	88	87	90	88	86	86						86													

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

	0°	45°	90°
0°	2340471	2340471	2340471
5°	1375374	1357569	1368301
10°	410488	413362	419688
15°	102100	104089	100884
20°	30553	35380	31199
25°	10766	13718	10906
30°	3954	5212	4021
35°	1983	2237	1917
40°	1250	1378	1250
45°	924	987	924
50°	737	737	737
55°	613	613	613
60°	491	491	491
65°	378	378	378
70°	322	322	322
75°	197	197	265
80°	142	142	142
85°	75	75	75

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 987 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	990.1	64.9
10°-20°	407.3	26.7
20°-30°	80.9	5.3
30°-40°	20.2	1.3
40°-50°	10.6	0.7
50°-60°	7.9	0.5
60°-70°	5.6	0.4
70°-80°	3.1	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°	1478.3	96.8
0°-40°	1498.5	98.2
0°-60°	1517.0	99.4
0°-90°	1526.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1526.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	20800	20800	20800	20800	20800	
5°	13533	13394	13358	13450	13464	988
15°	1176	1198	1198	1177	1162	403
25°	138	157	176	156	140	73
35°	27	29	31	29	26	19
45°	13	13	14	13	13	10
55°	9	9	9	9	9	8
65°	5	5	5	5	5	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°	20800.5	20800.5	20800.5	20800.5	20800.5
2.5°	18762.9	18778.8	18784.9	18803.4	18872.1
5°	13533.3	13394.2	13358.1	13450.5	13463.7
7.5°	8016.6	8044.8	8147.8	8170.7	8087.9
10°	4399.3	4435.4	4430.1	4461.8	4497.9
12.5°	2249.8	2221.6	2212.8	2248.9	2198.8
15°	1175.5	1197.6	1198.4	1177.3	1161.5
17.5°	632.2	657.8	700.0	665.7	612.9
20°	373.4	396.3	432.4	404.2	381.3
22.5°	230.7	249.2	274.7	252.7	234.2
25°	138.2	156.7	176.1	155.9	140.0
27.5°	81.9	97.7	110.1	96.9	81.0
30°	52.8	61.6	69.6	60.8	53.7
32.5°	37.0	40.5	44.0	40.5	37.0
35°	27.3	29.1	30.8	29.1	26.4
37.5°	21.1	22.9	23.8	22.0	20.3
40°	17.6	18.5	19.4	18.5	17.6
42.5°	15.0	15.9	15.9	15.9	15.0
45°	13.2	13.2	14.1	13.2	13.2
47.5°	11.4	11.4	12.3	11.4	11.4
50°	10.6	10.6	10.6	10.6	10.6
52.5°	9.7	9.7	9.7	9.7	9.7
55°	8.8	8.8	8.8	8.8	8.8
57.5°	7.9	7.9	7.9	7.9	7.9
60°	7.0	7.0	7.0	7.0	7.0
62.5°	6.2	6.2	6.2	6.2	6.2
65°	5.3	5.3	5.3	5.3	5.3
67.5°	5.3	5.3	5.3	5.3	5.3
70°	4.4	4.4	4.4	4.4	4.4
72.5°	3.5	3.5	3.5	3.5	3.5
75°	2.6	2.6	2.6	2.6	3.5
77.5°	2.6	2.6	2.6	2.6	2.6
80°	1.8	1.8	1.8	1.8	1.8
82.5°	1.8	1.8	1.8	1.8	1.8
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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(END OF REPORT)