

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: P743933

Luminaire Tested: LD4D20D010-EU4DR1515309050-4LBS1LI

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P743933  
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-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: 2206.7 lumens  
Efficiency: N/A  
Efficacy: 95.5 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): 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

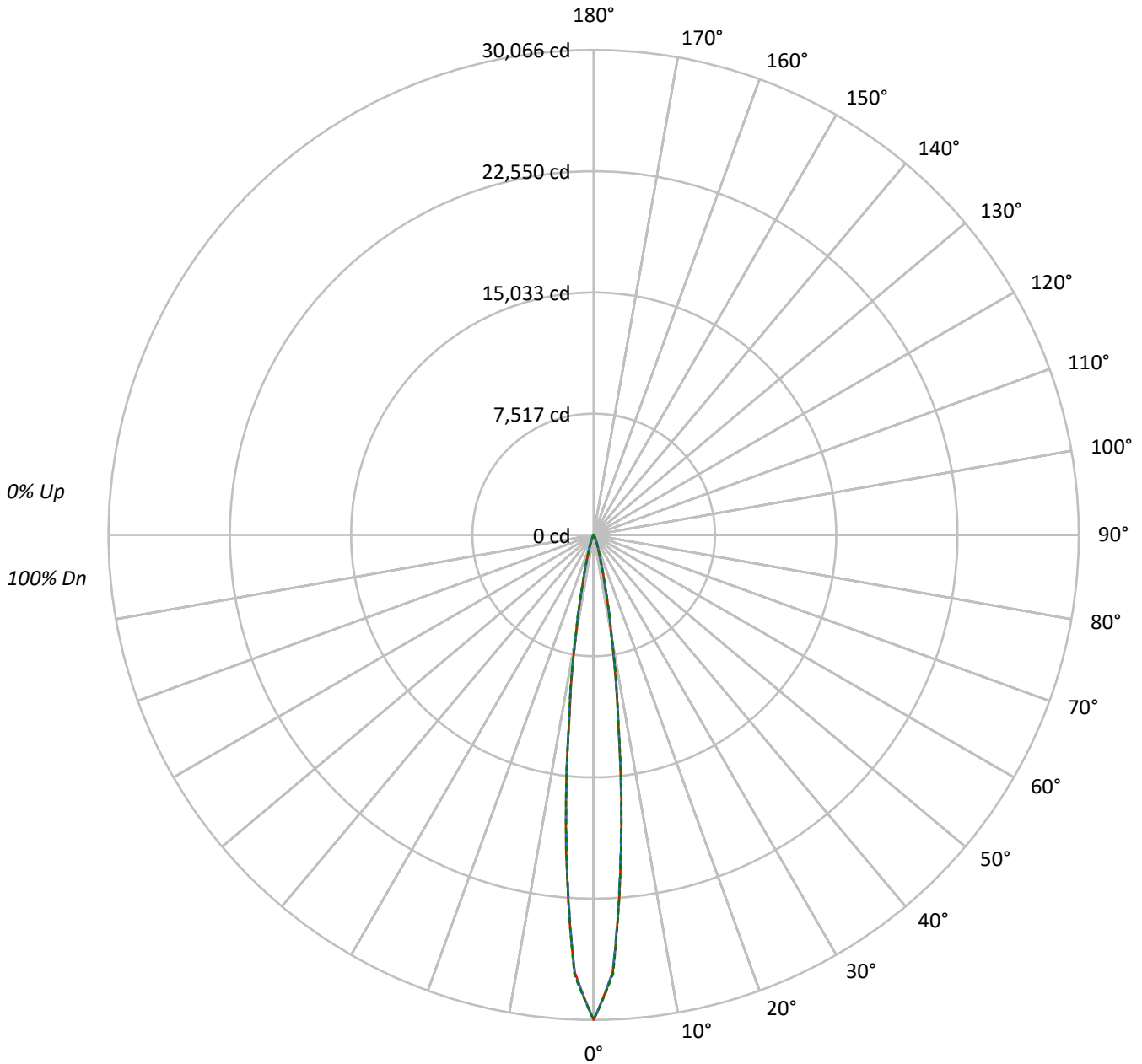


Downlight



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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	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°	3382991	3382991	3382991
5°	1988004	1962261	1977780
10°	593324	597486	606630
15°	147587	150462	145815
20°	44160	51131	45093
25°	15565	19834	15767
30°	5721	7526	5811
35°	2868	3232	2774
40°	1811	1988	1811
45°	1337	1428	1337
50°	1064	1064	1064
55°	884	884	884
60°	716	716	716
65°	542	542	542
70°	468	468	468
75°	287	287	385
80°	197	197	197
85°	108	108	108

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 1428 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1431.2	64.9
10°-20°	588.7	26.7
20°-30°	116.9	5.3
30°-40°	29.2	1.3
40°-50°	15.3	0.7
50°-60°	11.4	0.5
60°-70°	8.0	0.4
70°-80°	4.6	0.2
80°-90°	1.4	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°	2136.8	96.8
0°-40°	2166.0	98.2
0°-60°	2192.7	99.4
0°-90°	2206.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2206.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	30066	30066	30066	30066	30066	
5°	19561	19360	19308	19442	19461	1428
15°	1699	1731	1732	1702	1679	583
25°	200	227	255	225	202	105
35°	40	42	44	42	38	27
45°	19	19	20	19	19	15
55°	13	13	13	13	13	11
65°	8	8	8	8	8	8
75°	4	4	4	4	5	5
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°	30065.7	30065.7	30065.7	30065.7	30065.7
2.5°	27120.4	27143.4	27152.3	27179.0	27278.3
5°	19561.4	19360.3	19308.1	19441.7	19460.8
7.5°	11587.4	11628.1	11777.1	11810.1	11690.5
10°	6358.8	6411.0	6403.4	6449.2	6501.4
12.5°	3252.0	3211.2	3198.5	3250.7	3178.1
15°	1699.2	1731.0	1732.3	1701.7	1678.8
17.5°	913.9	950.8	1011.9	962.2	885.9
20°	539.7	572.8	624.9	584.2	551.1
22.5°	333.5	360.2	397.1	365.3	338.6
25°	199.8	226.6	254.6	225.3	202.4
27.5°	118.4	141.3	159.1	140.0	117.1
30°	76.4	89.1	100.5	87.8	77.6
32.5°	53.5	58.5	63.6	58.5	53.5
35°	39.5	42.0	44.5	42.0	38.2
37.5°	30.5	33.1	34.4	31.8	29.3
40°	25.5	26.7	28.0	26.7	25.5
42.5°	21.6	22.9	22.9	22.9	21.6
45°	19.1	19.1	20.4	19.1	19.1
47.5°	16.5	16.5	17.8	16.5	16.5
50°	15.3	15.3	15.3	15.3	15.3
52.5°	14.0	14.0	14.0	14.0	14.0
55°	12.7	12.7	12.7	12.7	12.7
57.5°	11.5	11.5	11.5	11.5	11.5
60°	10.2	10.2	10.2	10.2	10.2
62.5°	8.9	8.9	8.9	8.9	8.9
65°	7.6	7.6	7.6	7.6	7.6
67.5°	7.6	7.6	7.6	7.6	7.6
70°	6.4	6.4	6.4	6.4	6.4
72.5°	5.1	5.1	5.1	5.1	5.1
75°	3.8	3.8	3.8	3.8	5.1
77.5°	3.8	3.8	3.8	3.8	3.8
80°	2.5	2.5	2.5	2.5	2.5
82.5°	2.5	2.5	2.5	2.5	2.5
85°	1.3	1.3	1.3	1.3	1.3
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)