

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: P741905

Luminaire Tested: LD4D10D010-EU4DR150210IC9035-4LBDP1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P741905  
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: LD4D10D010-EU4DR150210IC9035-4LBDP1B  
Description: 4 INCH ROUND DEEP 45° CUTOFF 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: 995.7 lumens  
Efficiency: N/A  
Efficacy: 85.1 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): 11.7  
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

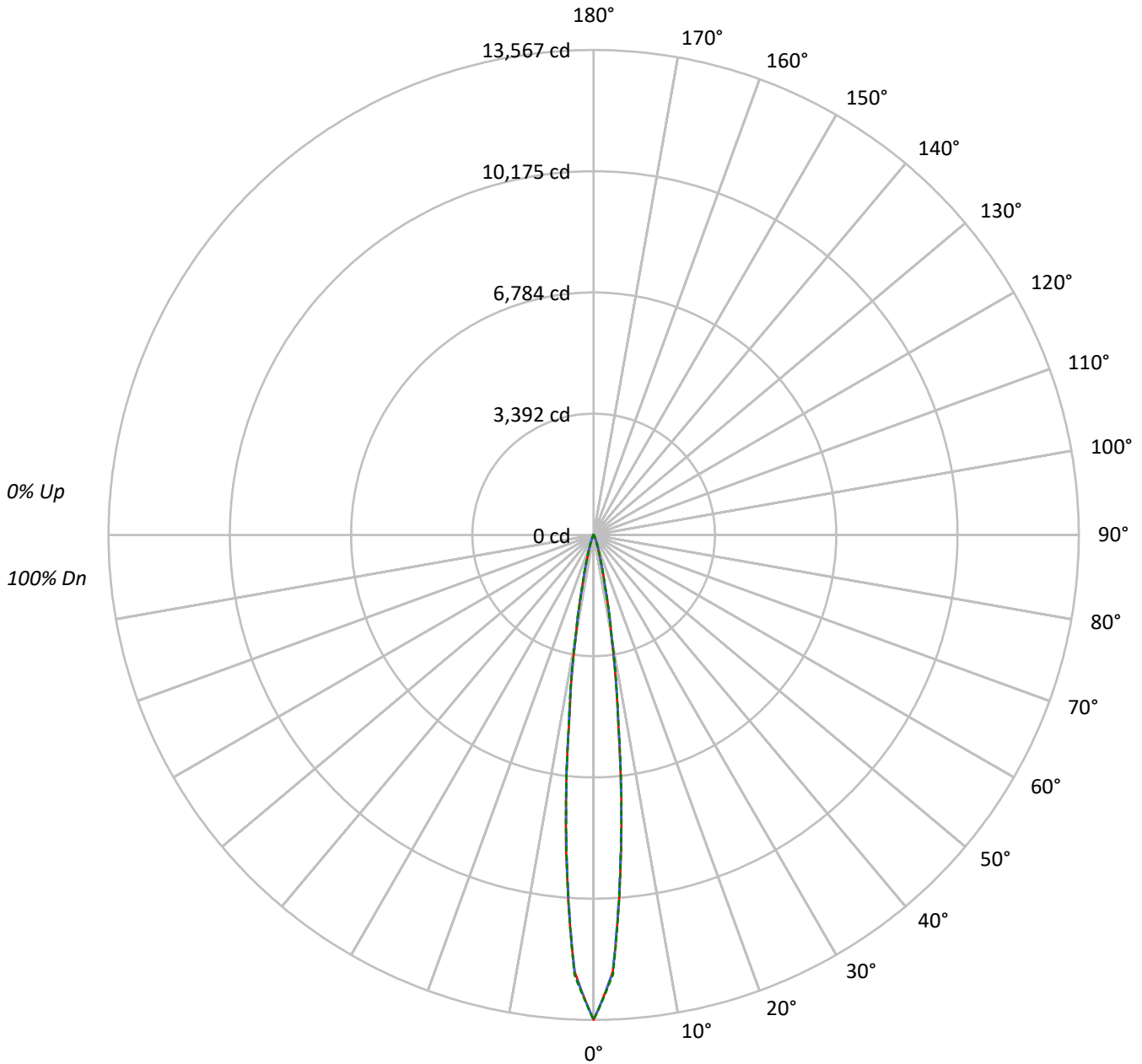


Downlight



TEST NUMBER: P741905  
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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	99	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°	1526513	1526513	1526513
5°	897048	885432	892434
10°	267727	269603	273727
15°	66593	67887	65794
20°	19924	23074	20349
25°	7027	8951	7112
30°	2583	3400	2621
35°	1293	1460	1249
40°	817	895	817
45°	602	644	602
50°	480	480	480
55°	397	397	397
60°	323	323	323
65°	243	243	243
70°	212	212	212
75°	128	128	174
80°	87	87	87
85°	50	50	50

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 644 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	645.8	64.9
10°-20°	265.6	26.7
20°-30°	52.8	5.3
30°-40°	13.2	1.3
40°-50°	6.9	0.7
50°-60°	5.1	0.5
60°-70°	3.6	0.4
70°-80°	2.1	0.2
80°-90°	0.6	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°	964.2	96.8
0°-40°	977.4	98.2
0°-60°	989.4	99.4
0°-90°	995.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	995.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	13567	13567	13567	13567	13567	
5°	8827	8736	8712	8773	8781	645
15°	767	781	782	768	758	263
25°	90	102	115	102	91	47
35°	18	19	20	19	17	12
45°	9	9	9	9	9	7
55°	6	6	6	6	6	5
65°	3	3	3	3	3	4
75°	2	2	2	2	2	2
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°	13566.6	13566.6	13566.6	13566.6	13566.6
2.5°	12237.6	12247.9	12251.9	12264.0	12308.8
5°	8826.7	8736.0	8712.4	8772.7	8781.3
7.5°	5228.6	5247.0	5314.2	5329.1	5275.1
10°	2869.3	2892.8	2889.4	2910.1	2933.6
12.5°	1467.4	1449.0	1443.3	1466.8	1434.1
15°	766.7	781.1	781.6	767.9	757.5
17.5°	412.4	429.0	456.6	434.2	399.7
20°	243.5	258.4	282.0	263.6	248.7
22.5°	150.5	162.5	179.2	164.8	152.8
25°	90.2	102.2	114.9	101.7	91.3
27.5°	53.4	63.7	71.8	63.2	52.8
30°	34.5	40.2	45.4	39.6	35.0
32.5°	24.1	26.4	28.7	26.4	24.1
35°	17.8	19.0	20.1	19.0	17.2
37.5°	13.8	14.9	15.5	14.4	13.2
40°	11.5	12.1	12.6	12.1	11.5
42.5°	9.8	10.3	10.3	10.3	9.8
45°	8.6	8.6	9.2	8.6	8.6
47.5°	7.5	7.5	8.0	7.5	7.5
50°	6.9	6.9	6.9	6.9	6.9
52.5°	6.3	6.3	6.3	6.3	6.3
55°	5.7	5.7	5.7	5.7	5.7
57.5°	5.2	5.2	5.2	5.2	5.2
60°	4.6	4.6	4.6	4.6	4.6
62.5°	4.0	4.0	4.0	4.0	4.0
65°	3.4	3.4	3.4	3.4	3.4
67.5°	3.4	3.4	3.4	3.4	3.4
70°	2.9	2.9	2.9	2.9	2.9
72.5°	2.3	2.3	2.3	2.3	2.3
75°	1.7	1.7	1.7	1.7	2.3
77.5°	1.7	1.7	1.7	1.7	1.7
80°	1.1	1.1	1.1	1.1	1.1
82.5°	1.1	1.1	1.1	1.1	1.1
85°	0.6	0.6	0.6	0.6	0.6
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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