

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: P739878

Luminaire Tested: LD4D05D010-EU4DR150210IC9035-4LBDP1H

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P739878  
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: LD4D05D010-EU4DR150210IC9035-4LBDP1H  
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 677.5 lumens  
Efficiency: N/A  
Efficacy: 90.3 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): 7.5  
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



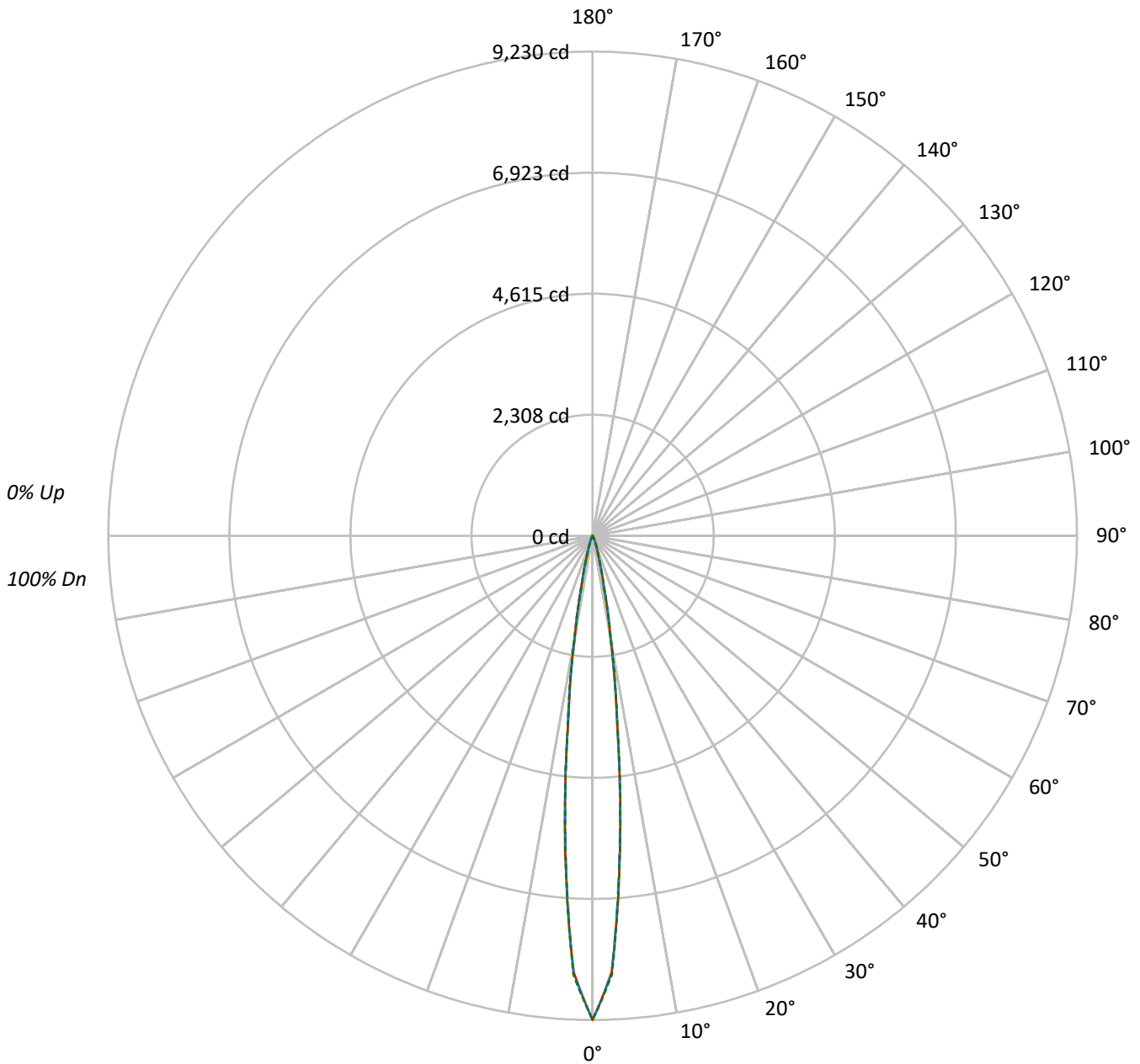
Downlight



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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	87	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°	1038582	1038582	1038582
5°	610322	602415	607182
10°	182155	183424	186233
15°	45305	46190	44766
20°	13558	15702	13844
25°	4775	6084	4838
30°	1752	2314	1782
35°	879	995	850
40°	554	611	554
45°	413	441	413
50°	327	327	327
55°	271	271	271
60°	218	218	218
65°	164	164	164
70°	146	146	146
75°	91	91	121
80°	63	63	63
85°	33	33	33

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 441 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	439.4	64.9
10°-20°	180.7	26.7
20°-30°	35.9	5.3
30°-40°	9.0	1.3
40°-50°	4.7	0.7
50°-60°	3.5	0.5
60°-70°	2.4	0.4
70°-80°	1.4	0.2
80°-90°	0.4	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°	656.0	96.8
0°-40°	665.0	98.2
0°-60°	673.2	99.4
0°-90°	677.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	677.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9230	9230	9230	9230	9230	
5°	6005	5944	5928	5969	5974	439
15°	522	531	532	522	515	179
25°	61	70	78	69	62	32
35°	12	13	14	13	12	8
45°	6	6	6	6	6	5
55°	4	4	4	4	4	3
65°	2	2	2	2	2	2
75°	1	1	1	1	2	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	9230.2	9230.2	9230.2	9230.2	9230.2
2.5°	8326.0	8333.0	8335.8	8344.0	8374.4
5°	6005.4	5943.6	5927.6	5968.6	5974.5
7.5°	3557.3	3569.8	3615.6	3625.7	3589.0
10°	1952.2	1968.2	1965.8	1979.9	1995.9
12.5°	998.4	985.8	981.9	998.0	975.7
15°	521.6	531.4	531.8	522.4	515.4
17.5°	280.6	291.9	310.6	295.4	272.0
20°	165.7	175.8	191.9	179.4	169.2
22.5°	102.4	110.6	121.9	112.1	103.9
25°	61.3	69.6	78.1	69.2	62.1
27.5°	36.3	43.4	48.8	43.0	35.9
30°	23.4	27.4	30.9	27.0	23.8
32.5°	16.4	18.0	19.5	18.0	16.4
35°	12.1	12.9	13.7	12.9	11.7
37.5°	9.4	10.2	10.6	9.8	9.0
40°	7.8	8.2	8.6	8.2	7.8
42.5°	6.6	7.0	7.0	7.0	6.6
45°	5.9	5.9	6.3	5.9	5.9
47.5°	5.1	5.1	5.5	5.1	5.1
50°	4.7	4.7	4.7	4.7	4.7
52.5°	4.3	4.3	4.3	4.3	4.3
55°	3.9	3.9	3.9	3.9	3.9
57.5°	3.5	3.5	3.5	3.5	3.5
60°	3.1	3.1	3.1	3.1	3.1
62.5°	2.7	2.7	2.7	2.7	2.7
65°	2.3	2.3	2.3	2.3	2.3
67.5°	2.3	2.3	2.3	2.3	2.3
70°	2.0	2.0	2.0	2.0	2.0
72.5°	1.6	1.6	1.6	1.6	1.6
75°	1.2	1.2	1.2	1.2	1.6
77.5°	1.2	1.2	1.2	1.2	1.2
80°	0.8	0.8	0.8	0.8	0.8
82.5°	0.8	0.8	0.8	0.8	0.8
85°	0.4	0.4	0.4	0.4	0.4
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

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Scaled Data Report



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Scaled Data Report







— 0°-180°    - - 45°-225°    - - - - 90°-270°

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(END OF REPORT)