

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: P739839

Luminaire Tested: LD4D05D010-EU4DR150210IC9024-4LBDP1H

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P739839  
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-EU4DR150210IC9024-4LBDP1H  
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 559.9 lumens  
Efficiency: N/A  
Efficacy: 74.6 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): 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



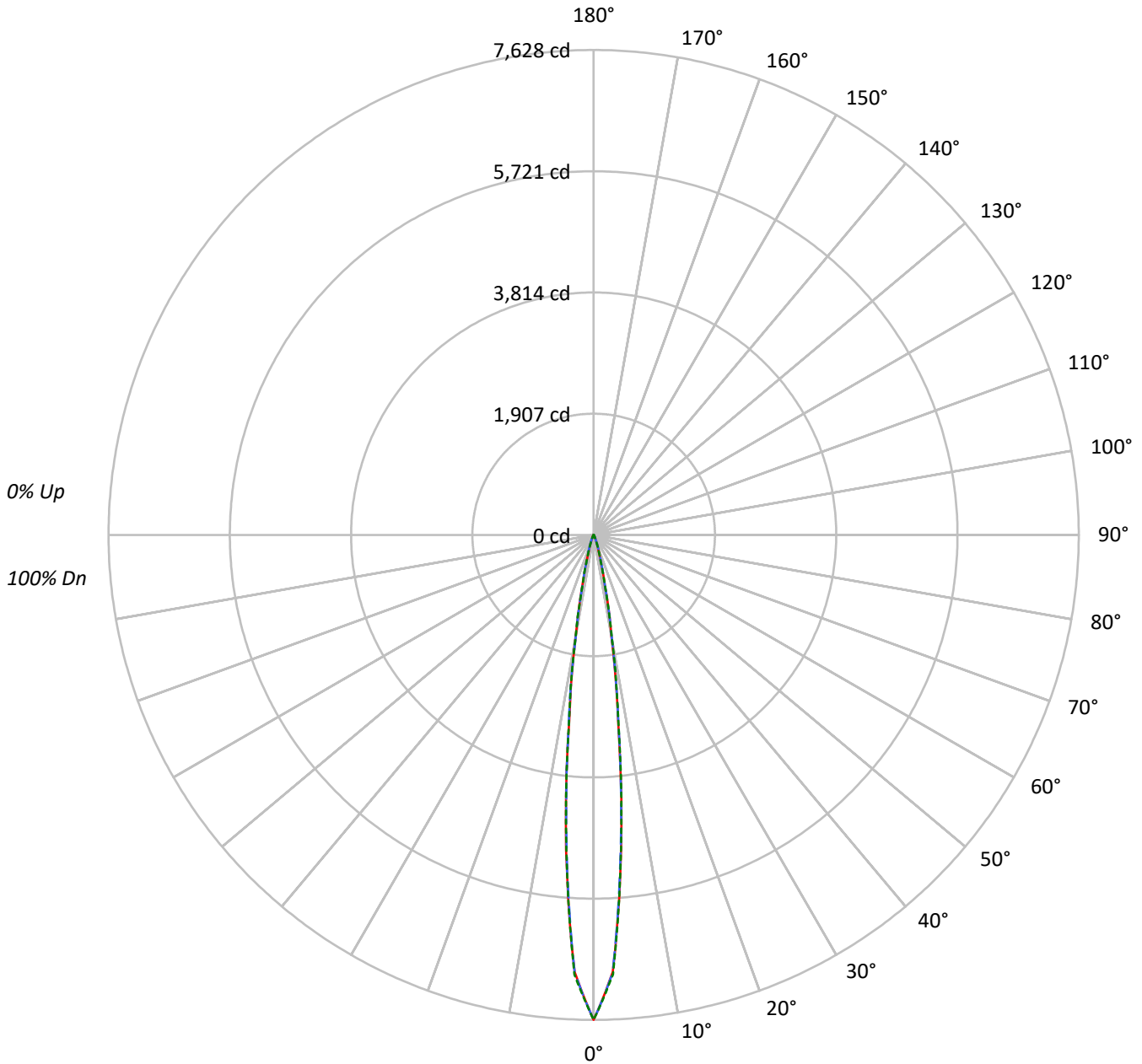
Downlight



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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	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°	858302	858302	858302
5°	504374	497850	501783
10°	150533	151588	153911
15°	37444	38174	36992
20°	11202	12977	11439
25°	3950	5032	3996
30°	1453	1909	1475
35°	726	821	704
40°	462	504	462
45°	336	364	336
50°	271	271	271
55°	223	223	223
60°	183	183	183
65°	136	136	136
70°	117	117	117
75°	76	76	98
80°	47	47	47
85°	25	25	25

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 364 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	363.1	64.9
10°-20°	149.4	26.7
20°-30°	29.7	5.3
30°-40°	7.4	1.3
40°-50°	3.9	0.7
50°-60°	2.9	0.5
60°-70°	2.0	0.4
70°-80°	1.2	0.2
80°-90°	0.3	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°	542.1	96.8
0°-40°	549.5	98.2
0°-60°	556.3	99.4
0°-90°	559.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	559.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7628	7628	7628	7628	7628	
5°	4963	4912	4899	4933	4937	362
15°	431	439	440	432	426	148
25°	51	58	65	57	51	27
35°	10	11	11	11	10	7
45°	5	5	5	5	5	4
55°	3	3	3	3	3	3
65°	2	2	2	2	2	2
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7628.0	7628.0	7628.0	7628.0	7628.0
2.5°	6880.8	6886.6	6888.8	6895.6	6920.8
5°	4962.9	4911.9	4898.7	4932.6	4937.4
7.5°	2939.9	2950.2	2988.0	2996.4	2966.0
10°	1613.3	1626.5	1624.6	1636.2	1649.5
12.5°	825.1	814.7	811.5	824.7	806.3
15°	431.1	439.2	439.5	431.7	425.9
17.5°	231.9	241.2	256.7	244.1	224.8
20°	136.9	145.3	158.6	148.2	139.8
22.5°	84.6	91.4	100.8	92.7	85.9
25°	50.7	57.5	64.6	57.2	51.3
27.5°	30.0	35.8	40.4	35.5	29.7
30°	19.4	22.6	25.5	22.3	19.7
32.5°	13.6	14.9	16.1	14.9	13.6
35°	10.0	10.7	11.3	10.7	9.7
37.5°	7.8	8.4	8.7	8.1	7.4
40°	6.5	6.8	7.1	6.8	6.5
42.5°	5.5	5.8	5.8	5.8	5.5
45°	4.8	4.8	5.2	4.8	4.8
47.5°	4.2	4.2	4.5	4.2	4.2
50°	3.9	3.9	3.9	3.9	3.9
52.5°	3.6	3.6	3.6	3.6	3.6
55°	3.2	3.2	3.2	3.2	3.2
57.5°	2.9	2.9	2.9	2.9	2.9
60°	2.6	2.6	2.6	2.6	2.6
62.5°	2.3	2.3	2.3	2.3	2.3
65°	1.9	1.9	1.9	1.9	1.9
67.5°	1.9	1.9	1.9	1.9	1.9
70°	1.6	1.6	1.6	1.6	1.6
72.5°	1.3	1.3	1.3	1.3	1.3
75°	1.0	1.0	1.0	1.0	1.3
77.5°	1.0	1.0	1.0	1.0	1.0
80°	0.6	0.6	0.6	0.6	0.6
82.5°	0.6	0.6	0.6	0.6	0.6
85°	0.3	0.3	0.3	0.3	0.3
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)