

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: P739846

Luminaire Tested: LD4D05D010-EU4DR150210IC9024-4LBSQW1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P739846  
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-EU4DR150210IC9024-4LBSQW1B  
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 483.9 lumens  
Efficiency: N/A  
Efficacy: 64.5 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): 7.5  
Input Voltage (V): NR  
Input Current (Ain): 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

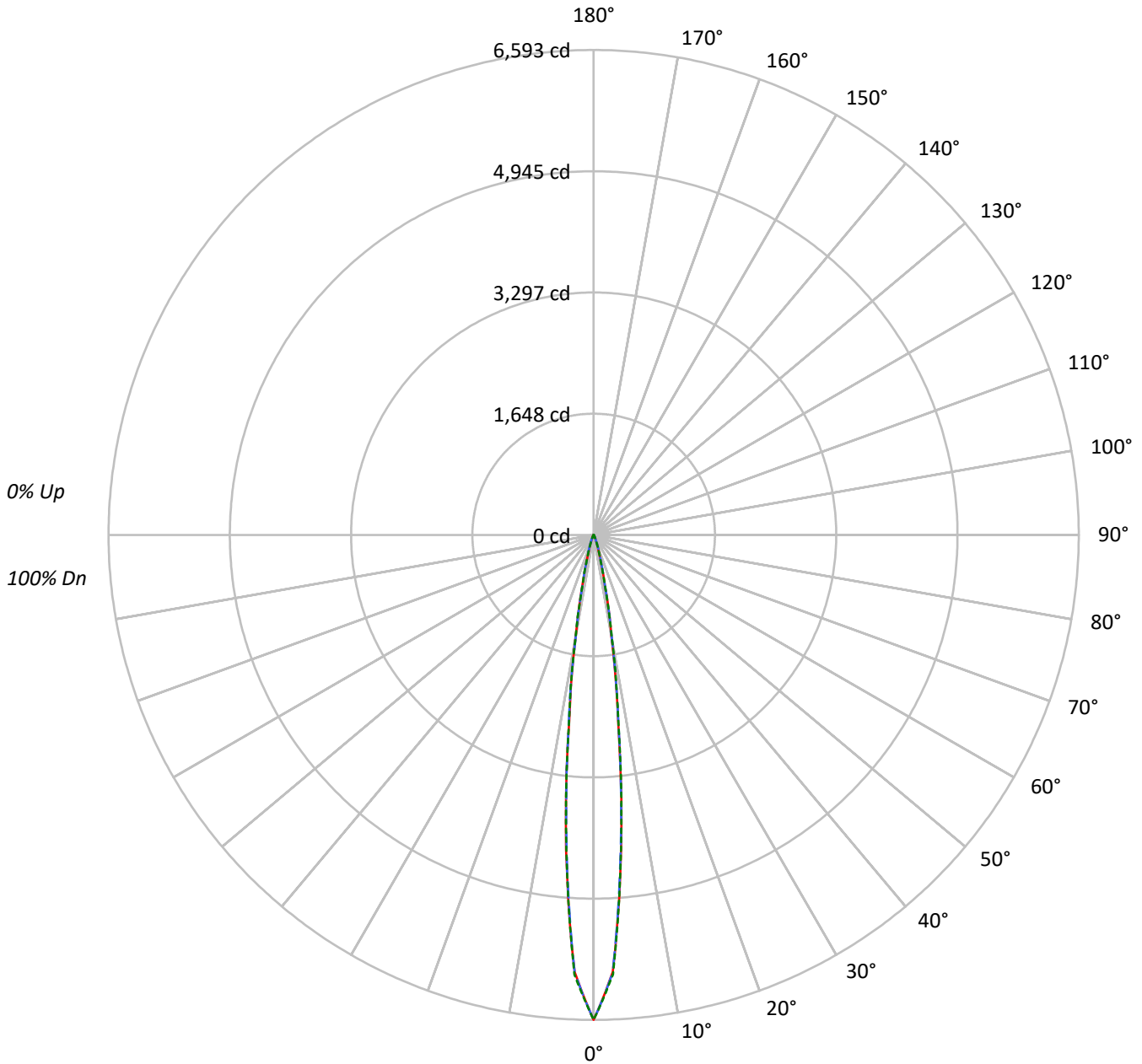


Downlight



TEST NUMBER: P739846  
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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°	741855	741855	741855
5°	435947	430297	433701
10°	130108	131023	133029
15°	32363	32997	31972
20°	9680	11210	9892
25°	3412	4347	3459
30°	1251	1647	1273
35°	632	712	610
40°	398	433	398
45°	294	315	294
50°	229	229	229
55°	195	195	195
60°	154	154	154
65°	121	121	121
70°	102	102	102
75°	60	60	83
80°	47	47	47
85°	25	25	25

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 315 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	313.8	64.9
10°-20°	129.1	26.7
20°-30°	25.6	5.3
30°-40°	6.4	1.3
40°-50°	3.4	0.7
50°-60°	2.5	0.5
60°-70°	1.8	0.4
70°-80°	1.0	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°	468.6	96.8
0°-40°	475.0	98.2
0°-60°	480.8	99.4
0°-90°	483.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	483.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6593	6593	6593	6593	6593	
5°	4290	4246	4234	4263	4268	313
15°	373	380	380	373	368	128
25°	44	50	56	49	44	23
35°	9	9	10	9	8	6
45°	4	4	4	4	4	3
55°	3	3	3	3	3	2
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	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6593.1	6593.1	6593.1	6593.1	6593.1
2.5°	5947.2	5952.2	5954.2	5960.0	5981.8
5°	4289.6	4245.5	4234.0	4263.4	4267.5
7.5°	2541.0	2549.9	2582.6	2589.8	2563.6
10°	1394.4	1405.9	1404.2	1414.2	1425.7
12.5°	713.1	704.2	701.4	712.8	696.9
15°	372.6	379.6	379.9	373.2	368.1
17.5°	200.4	208.5	221.9	211.0	194.3
20°	118.3	125.6	137.0	128.1	120.9
22.5°	73.1	79.0	87.1	80.1	74.2
25°	43.8	49.7	55.8	49.4	44.4
27.5°	26.0	31.0	34.9	30.7	25.7
30°	16.7	19.5	22.0	19.3	17.0
32.5°	11.7	12.8	14.0	12.8	11.7
35°	8.7	9.2	9.8	9.2	8.4
37.5°	6.7	7.3	7.5	7.0	6.4
40°	5.6	5.9	6.1	5.9	5.6
42.5°	4.7	5.0	5.0	5.0	4.7
45°	4.2	4.2	4.5	4.2	4.2
47.5°	3.6	3.6	3.9	3.6	3.6
50°	3.3	3.3	3.3	3.3	3.3
52.5°	3.1	3.1	3.1	3.1	3.1
55°	2.8	2.8	2.8	2.8	2.8
57.5°	2.5	2.5	2.5	2.5	2.5
60°	2.2	2.2	2.2	2.2	2.2
62.5°	2.0	2.0	2.0	2.0	2.0
65°	1.7	1.7	1.7	1.7	1.7
67.5°	1.7	1.7	1.7	1.7	1.7
70°	1.4	1.4	1.4	1.4	1.4
72.5°	1.1	1.1	1.1	1.1	1.1
75°	0.8	0.8	0.8	0.8	1.1
77.5°	0.8	0.8	0.8	0.8	0.8
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

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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)