

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: P739848

Luminaire Tested: LD4D05D010-EU4DR150210IC9027-4LBCSSQMB

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P739848  
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-EU4DR150210IC9027-4LBCSSQMB  
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 569.1 lumens  
Efficiency: N/A  
Efficacy: 75.9 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



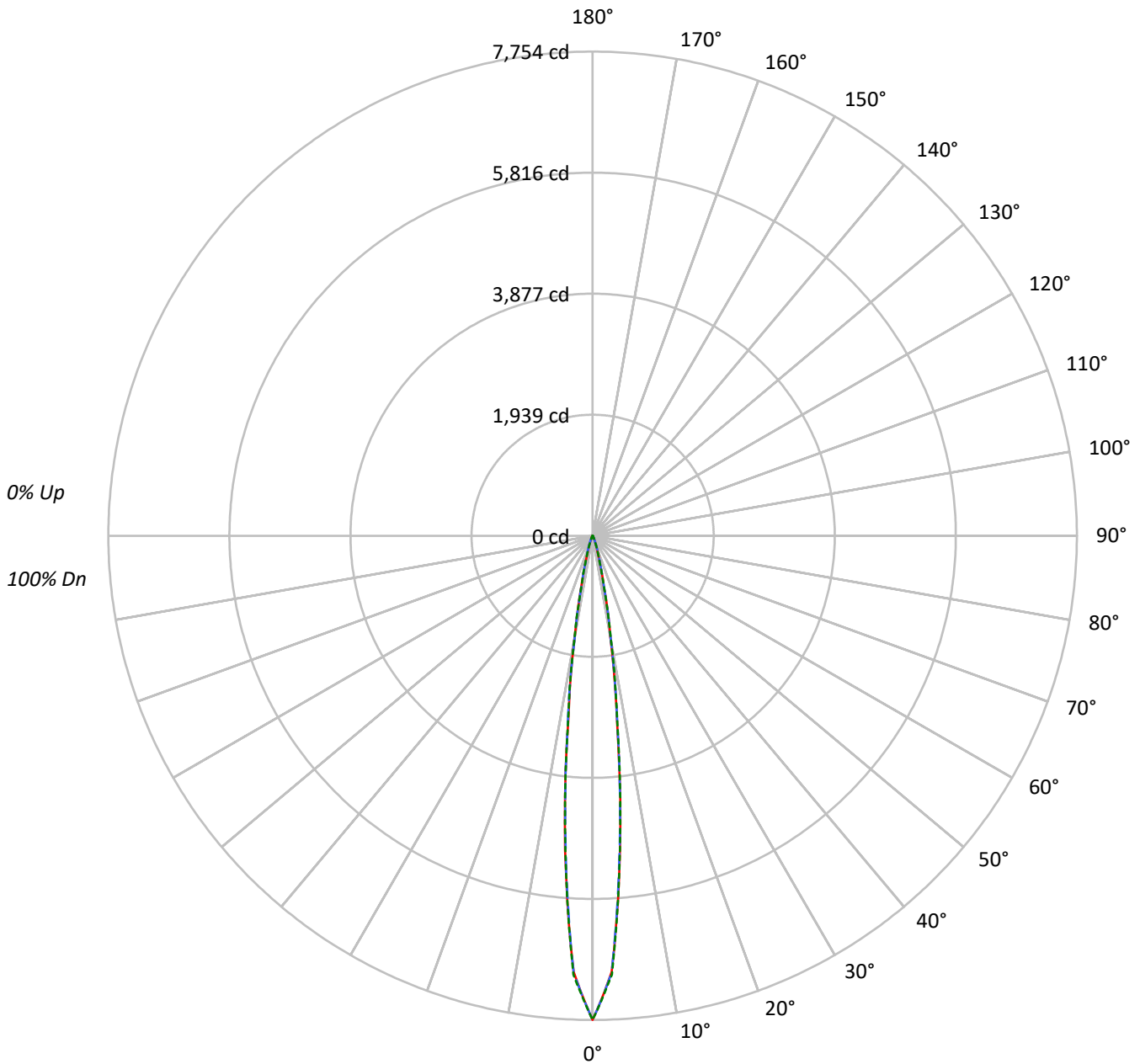
Downlight



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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°	872423	872423	872423
5°	512677	506041	510045
10°	153006	154079	156440
15°	38061	38799	37600
20°	11390	13190	11627
25°	4012	5110	4066
30°	1475	1939	1498
35°	741	835	712
40°	469	511	469
45°	343	371	343
50°	271	271	271
55°	230	230	230
60°	183	183	183
65°	143	143	143
70°	117	117	117
75°	76	76	98
80°	55	55	55
85°	25	25	25

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 371 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	369.1	64.9
10°-20°	151.8	26.7
20°-30°	30.1	5.3
30°-40°	7.5	1.3
40°-50°	4.0	0.7
50°-60°	2.9	0.5
60°-70°	2.1	0.4
70°-80°	1.2	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
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0°-30°	551.0	96.8
0°-40°	558.6	98.2
0°-60°	565.5	99.4
0°-90°	569.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	569.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7754	7754	7754	7754	7754	
5°	5045	4993	4979	5014	5019	368
15°	438	446	447	439	433	150
25°	52	58	66	58	52	27
35°	10	11	12	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°	7753.5	7753.5	7753.5	7753.5	7753.5
2.5°	6994.0	6999.9	7002.2	7009.1	7034.7
5°	5044.6	4992.7	4979.3	5013.7	5018.7
7.5°	2988.2	2998.7	3037.1	3045.7	3014.8
10°	1639.8	1653.3	1651.3	1663.2	1676.6
12.5°	838.6	828.1	824.8	838.3	819.6
15°	438.2	446.4	446.7	438.8	432.9
17.5°	235.7	245.2	260.9	248.1	228.4
20°	139.2	147.7	161.2	150.7	142.1
22.5°	86.0	92.9	102.4	94.2	87.3
25°	51.5	58.4	65.6	58.1	52.2
27.5°	30.5	36.4	41.0	36.1	30.2
30°	19.7	23.0	25.9	22.6	20.0
32.5°	13.8	15.1	16.4	15.1	13.8
35°	10.2	10.8	11.5	10.8	9.8
37.5°	7.9	8.5	8.9	8.2	7.5
40°	6.6	6.9	7.2	6.9	6.6
42.5°	5.6	5.9	5.9	5.9	5.6
45°	4.9	4.9	5.3	4.9	4.9
47.5°	4.3	4.3	4.6	4.3	4.3
50°	3.9	3.9	3.9	3.9	3.9
52.5°	3.6	3.6	3.6	3.6	3.6
55°	3.3	3.3	3.3	3.3	3.3
57.5°	3.0	3.0	3.0	3.0	3.0
60°	2.6	2.6	2.6	2.6	2.6
62.5°	2.3	2.3	2.3	2.3	2.3
65°	2.0	2.0	2.0	2.0	2.0
67.5°	2.0	2.0	2.0	2.0	2.0
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°	0.7	0.7	0.7	0.7	0.7
82.5°	0.7	0.7	0.7	0.7	0.7
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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