

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: P739874

Luminaire Tested: LD4D05D010-EU4DR150210IC9035-4LBCSSQMB

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P739874  
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-EU4DR150210IC9035-4LBCSSQMB  
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 620.3 lumens  
Efficiency: N/A  
Efficacy: 82.7 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



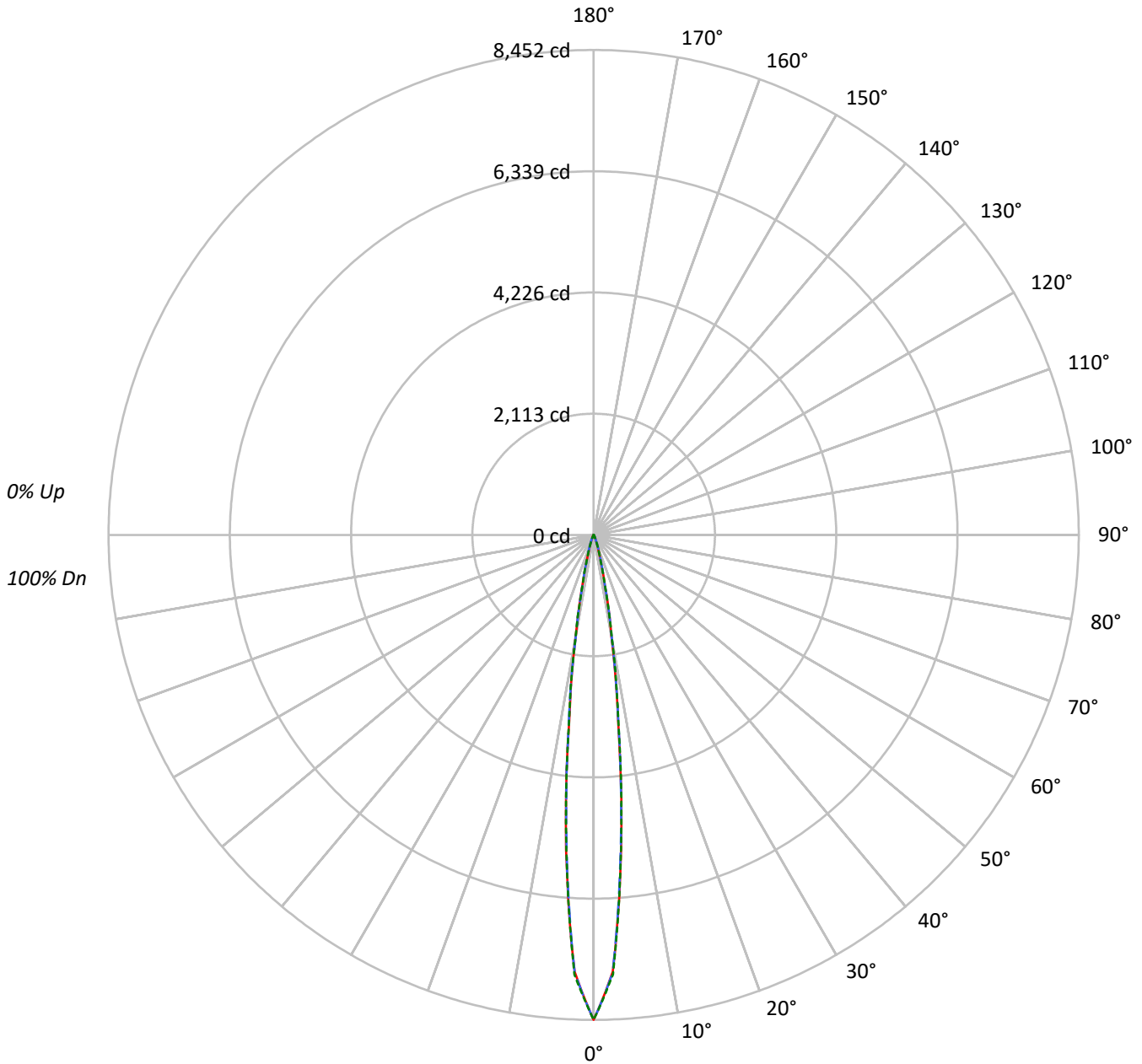
Downlight



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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	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°	950985	950985	950985
5°	558847	551611	555971
10°	166787	167954	170529
15°	41483	42299	40988
20°	12413	14376	12674
25°	4378	5578	4433
30°	1610	2119	1632
35°	806	908	777
40°	511	561	511
45°	378	399	378
50°	299	299	299
55°	251	251	251
60°	204	204	204
65°	150	150	150
70°	132	132	132
75°	83	83	106
80°	55	55	55
85°	33	33	33

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 399 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	402.3	64.9
10°-20°	165.5	26.7
20°-30°	32.9	5.3
30°-40°	8.2	1.3
40°-50°	4.3	0.7
50°-60°	3.2	0.5
60°-70°	2.2	0.4
70°-80°	1.3	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°	600.7	96.8
0°-40°	608.9	98.2
0°-60°	616.4	99.4
0°-90°	620.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	620.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8452	8452	8452	8452	8452	
5°	5499	5442	5428	5465	5471	402
15°	478	487	487	478	472	164
25°	56	64	72	63	57	30
35°	11	12	12	12	11	8
45°	5	5	6	5	5	4
55°	4	4	4	4	4	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	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	8451.7	8451.7	8451.7	8451.7	8451.7
2.5°	7623.8	7630.2	7632.7	7640.2	7668.1
5°	5498.9	5442.3	5427.7	5465.2	5470.6
7.5°	3257.3	3268.8	3310.6	3319.9	3286.3
10°	1787.5	1802.2	1800.0	1812.9	1827.6
12.5°	914.1	902.7	899.1	913.8	893.4
15°	477.6	486.6	487.0	478.4	471.9
17.5°	256.9	267.3	284.4	270.5	249.0
20°	151.7	161.0	175.7	164.2	154.9
22.5°	93.7	101.3	111.6	102.7	95.2
25°	56.2	63.7	71.6	63.3	56.9
27.5°	33.3	39.7	44.7	39.4	32.9
30°	21.5	25.0	28.3	24.7	21.8
32.5°	15.0	16.5	17.9	16.5	15.0
35°	11.1	11.8	12.5	11.8	10.7
37.5°	8.6	9.3	9.7	8.9	8.2
40°	7.2	7.5	7.9	7.5	7.2
42.5°	6.1	6.4	6.4	6.4	6.1
45°	5.4	5.4	5.7	5.4	5.4
47.5°	4.7	4.7	5.0	4.7	4.7
50°	4.3	4.3	4.3	4.3	4.3
52.5°	3.9	3.9	3.9	3.9	3.9
55°	3.6	3.6	3.6	3.6	3.6
57.5°	3.2	3.2	3.2	3.2	3.2
60°	2.9	2.9	2.9	2.9	2.9
62.5°	2.5	2.5	2.5	2.5	2.5
65°	2.1	2.1	2.1	2.1	2.1
67.5°	2.1	2.1	2.1	2.1	2.1
70°	1.8	1.8	1.8	1.8	1.8
72.5°	1.4	1.4	1.4	1.4	1.4
75°	1.1	1.1	1.1	1.1	1.4
77.5°	1.1	1.1	1.1	1.1	1.1
80°	0.7	0.7	0.7	0.7	0.7
82.5°	0.7	0.7	0.7	0.7	0.7
85°	0.4	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

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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