

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: P739873

Luminaire Tested: LD4D05D010-EU4DR150210IC9030-4LBSQW1MW

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P739873  
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-EU4DR150210IC9030-4LBSQW1MW  
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 582.9 lumens  
Efficiency: N/A  
Efficacy: 77.7 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

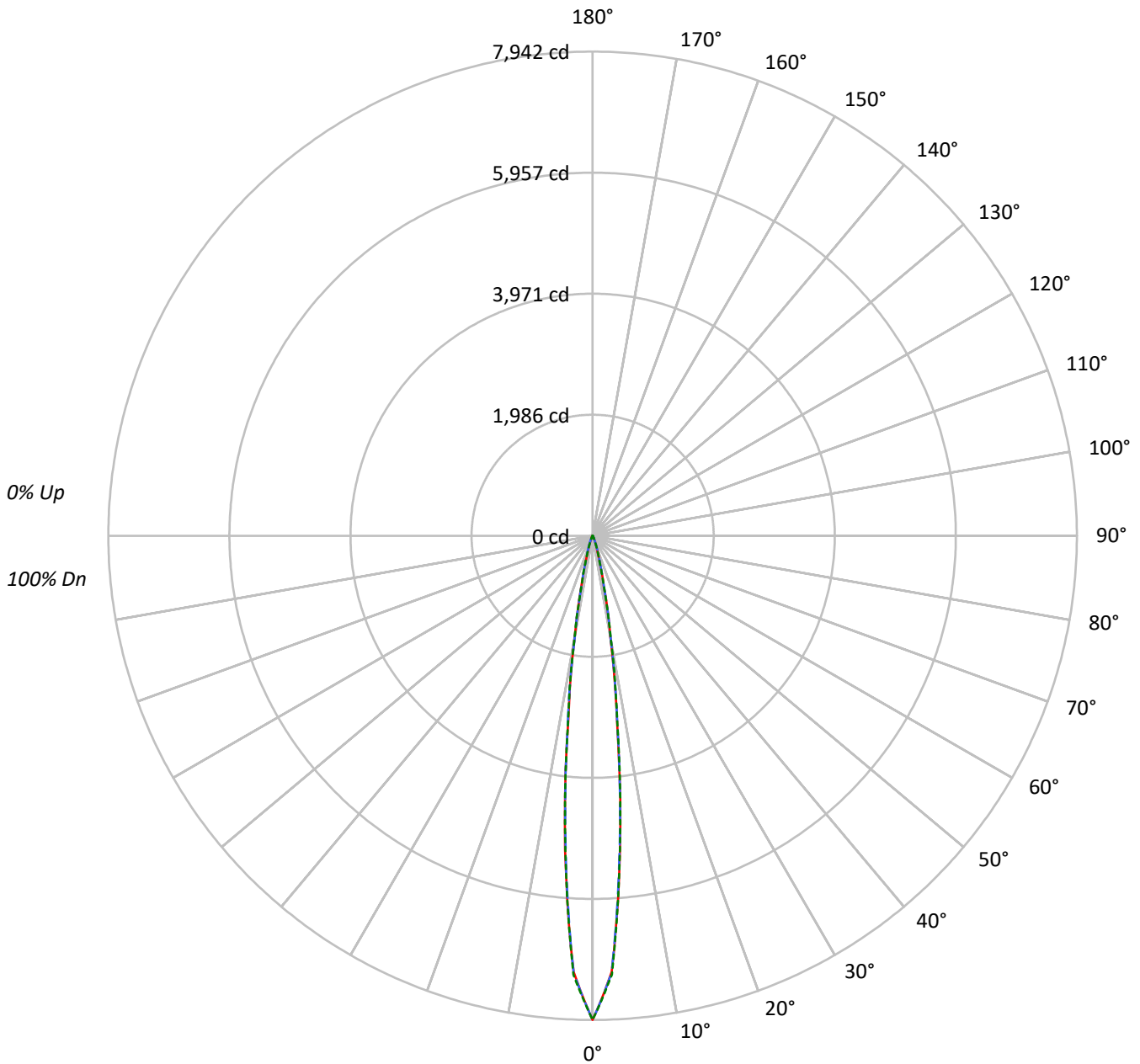


Downlight



TEST NUMBER: P739873  
CATALOG NUMBER: LD4D05D010-EU4DR150210IC9030-4LBSQW1MW

### Luminous Intensity Polar Plot





TEST NUMBER: P739873

CATALOG NUMBER: LD4D05D010-EU4DR150210IC9030-4LBSQW1MW

**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°	893611	893611	893611
5°	525127	518328	522434
10°	156729	157820	160237
15°	38981	39746	38521
20°	11668	13509	11913
25°	4113	5235	4168
30°	1513	1992	1535
35°	755	857	733
40°	476	526	476
45°	350	378	350
50°	278	278	278
55°	237	237	237
60°	190	190	190
65°	143	143	143
70°	124	124	124
75°	76	76	98
80°	55	55	55
85°	25	25	25

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 378 cd/sqm



TEST NUMBER: P739873

CATALOG NUMBER: LD4D05D010-EU4DR150210IC9030-4LBSQW1MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	378.0	64.9
10°-20°	155.5	26.7
20°-30°	30.9	5.3
30°-40°	7.7	1.3
40°-50°	4.1	0.7
50°-60°	3.0	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
0°-30°	564.4	96.8
0°-40°	572.1	98.2
0°-60°	579.2	99.4
0°-90°	582.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	582.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7942	7942	7942	7942	7942	
5°	5167	5114	5100	5136	5141	377
15°	449	457	458	450	444	154
25°	53	60	67	60	54	28
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



TEST NUMBER: P739873

CATALOG NUMBER: LD4D05D010-EU4DR150210IC9030-4LBSQW1MW

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7941.8	7941.8	7941.8	7941.8	7941.8
2.5°	7163.8	7169.9	7172.3	7179.3	7205.5
5°	5167.1	5114.0	5100.2	5135.5	5140.6
7.5°	3060.8	3071.6	3110.9	3119.6	3088.0
10°	1679.7	1693.5	1691.4	1703.5	1717.3
12.5°	859.0	848.2	844.9	858.7	839.5
15°	448.8	457.2	457.6	449.5	443.5
17.5°	241.4	251.1	267.3	254.2	234.0
20°	142.6	151.3	165.1	154.3	145.6
22.5°	88.1	95.1	104.9	96.5	89.4
25°	52.8	59.8	67.2	59.5	53.5
27.5°	31.3	37.3	42.0	37.0	30.9
30°	20.2	23.5	26.6	23.2	20.5
32.5°	14.1	15.5	16.8	15.5	14.1
35°	10.4	11.1	11.8	11.1	10.1
37.5°	8.1	8.7	9.1	8.4	7.7
40°	6.7	7.1	7.4	7.1	6.7
42.5°	5.7	6.1	6.1	6.1	5.7
45°	5.0	5.0	5.4	5.0	5.0
47.5°	4.4	4.4	4.7	4.4	4.4
50°	4.0	4.0	4.0	4.0	4.0
52.5°	3.7	3.7	3.7	3.7	3.7
55°	3.4	3.4	3.4	3.4	3.4
57.5°	3.0	3.0	3.0	3.0	3.0
60°	2.7	2.7	2.7	2.7	2.7
62.5°	2.4	2.4	2.4	2.4	2.4
65°	2.0	2.0	2.0	2.0	2.0
67.5°	2.0	2.0	2.0	2.0	2.0
70°	1.7	1.7	1.7	1.7	1.7
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



Report Generated By 670245859 / DESKTOP-T8S5UU9

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

Scaled Data Report







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

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

Scaled Data Report



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

Scaled Data Report



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

Scaled Data Report



(END OF REPORT)