

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: P748359

Luminaire Tested: LD4D45BD010-EU4DR3040509040-4LBCSSQMW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P748359  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/30/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D45BD010-EU4DR3040509040-4LBCSSQMW  
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

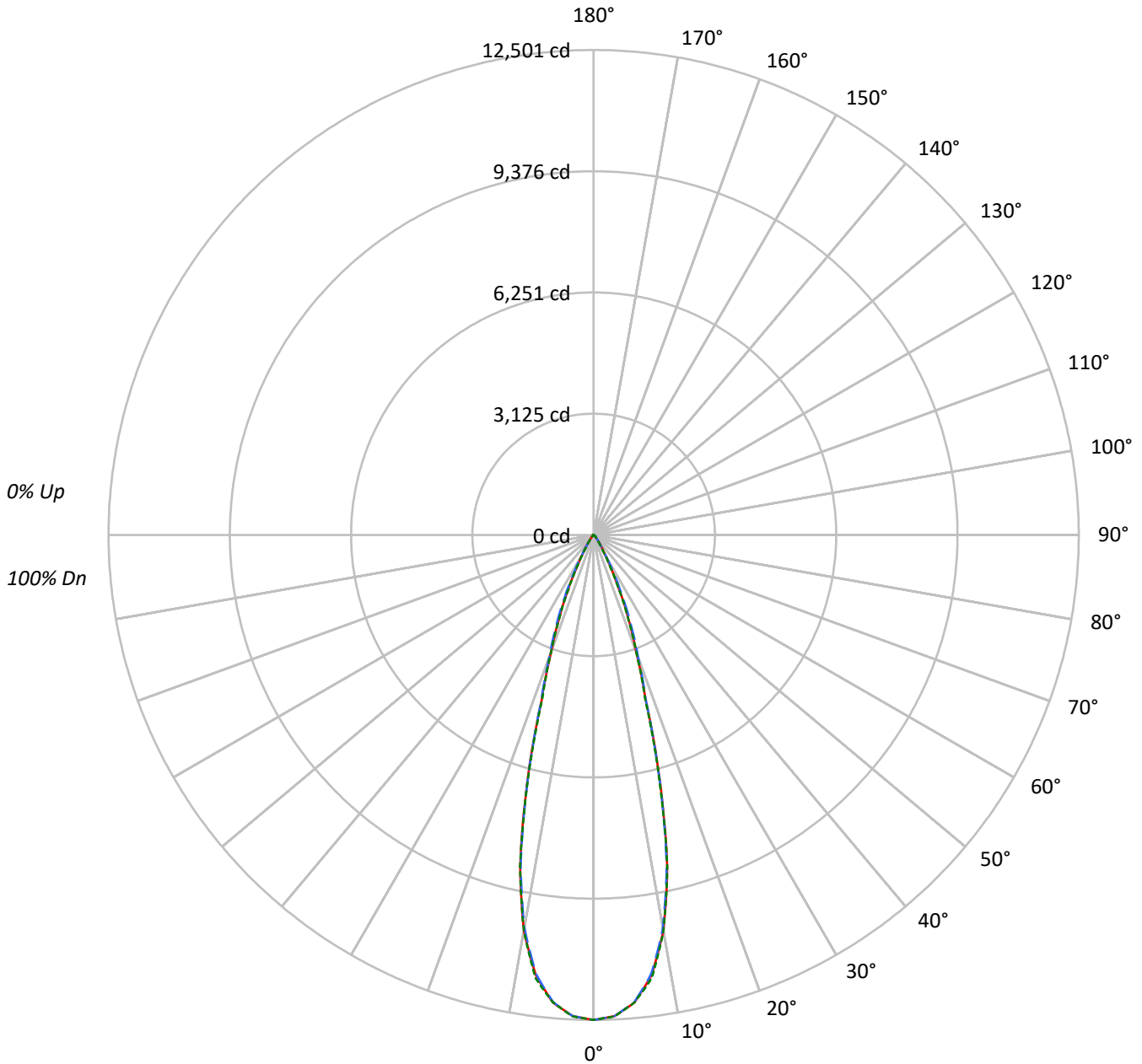
Lumens per Lamp: N/A  
Luminaire Lumens: 3887.7 lumens  
Efficiency: N/A  
Efficacy: 100.5 lumens/watt  
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49  
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')  
CIE Type: Direct

Input Watts (W): 38.7  
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



TEST NUMBER: P748359  
CATALOG NUMBER: LD4D45BD010-EU4DR3040509040-4LBCSSQMW

### Luminous Intensity Polar Plot





TEST NUMBER: P748359

CATALOG NUMBER: LD4D45BD010-EU4DR3040509040-4LBCSSQMW

**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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96																			
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92																			
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89																			
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85																			
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82																			
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79																			
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77																			
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74																			
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72																			
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	956846	956846	956846
5°	929375	928291	929429
10°	804982	799308	804795
15°	525210	522389	519766
20°	261164	270963	260813
25°	131558	148347	128863
30°	52668	57388	45889
35°	24435	23398	19614
40°	10552	11711	9932
45°	7437	9234	7512
50°	2560	6728	2703
55°	1468	2789	1561
60°	1041	1225	1041
65°	670	670	670
70°	403	269	403
75°	0	177	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 9234 cd/sqm



TEST NUMBER: P748359

CATALOG NUMBER: LD4D45BD010-EU4DR3040509040-4LBCSSQMW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1099.2	28.3
10°-20°	1770.3	45.5
20°-30°	765.0	19.7
30°-40°	174.4	4.5
40°-50°	59.9	1.5
50°-60°	14.6	0.4
60°-70°	3.8	0.1
70°-80°	0.4	0.0
80°-90°	0.0	0.0
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°	3634.6	93.5
0°-40°	3809.0	98.0
0°-60°	3883.5	99.9
0°-90°	3887.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3887.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	12501	12501	12501	12501	12501	
5°	12096	12084	12082	12107	12096	1100
15°	6628	6548	6592	6571	6559	1775
25°	1558	1617	1756	1576	1526	746
35°	262	267	250	249	210	177
45°	69	85	85	85	69	49
55°	11	12	21	12	12	11
65°	4	4	4	4	4	4
75°	0	0	1	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P748359

CATALOG NUMBER: LD4D45BD010-EU4DR3040509040-4LBCSSQMW

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	12500.7	12500.7	12500.7	12500.7	12500.7
2.5°	12417.9	12409.3	12414.2	12420.3	12422.8
5°	12095.6	12084.0	12081.5	12106.7	12096.3
7.5°	11445.7	11429.1	11404.0	11461.0	11514.4
10°	10356.9	10338.5	10283.9	10310.9	10354.5
12.5°	8749.5	8690.0	8688.8	8774.7	8763.0
15°	6627.8	6548.0	6592.2	6570.7	6559.1
17.5°	4457.0	4426.3	4485.2	4467.4	4390.7
20°	3206.2	3214.2	3326.5	3270.0	3201.9
22.5°	2339.6	2368.4	2501.6	2356.2	2302.8
25°	1557.7	1616.6	1756.5	1575.5	1525.8
27.5°	958.1	985.1	1126.8	945.8	918.8
30°	595.9	582.4	649.3	557.3	519.2
32.5°	391.0	373.8	395.3	354.7	324.1
35°	261.5	267.0	250.4	248.6	209.9
37.5°	163.3	187.8	165.7	176.8	135.0
40°	105.6	136.3	117.2	129.5	99.4
42.5°	86.5	105.0	96.4	102.5	88.4
45°	68.7	85.3	85.3	85.3	69.4
47.5°	38.1	57.1	73.0	58.3	40.5
50°	21.5	28.8	56.5	30.1	22.7
52.5°	14.7	16.6	38.7	17.2	15.3
55°	11.0	11.7	20.9	12.3	11.7
57.5°	8.6	9.2	11.0	9.2	8.6
60°	6.8	6.8	8.0	7.4	6.8
62.5°	4.9	4.9	5.5	4.9	4.9
65°	3.7	3.7	3.7	3.7	3.7
67.5°	1.8	2.5	2.5	2.5	2.5
70°	1.8	1.2	1.2	1.2	1.8
72.5°	1.2	0.6	0.6	0.6	0.6
75°	0.0	0.0	0.6	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
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)