

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: P748357

Luminaire Tested: LD4D45BD010-EU4DR3040509040-4LBCSSQMB

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P748357  
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-EU4DR3040509040-4LBCSSQMB  
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3887.1 lumens  
Efficiency: N/A  
Efficacy: 100.4 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

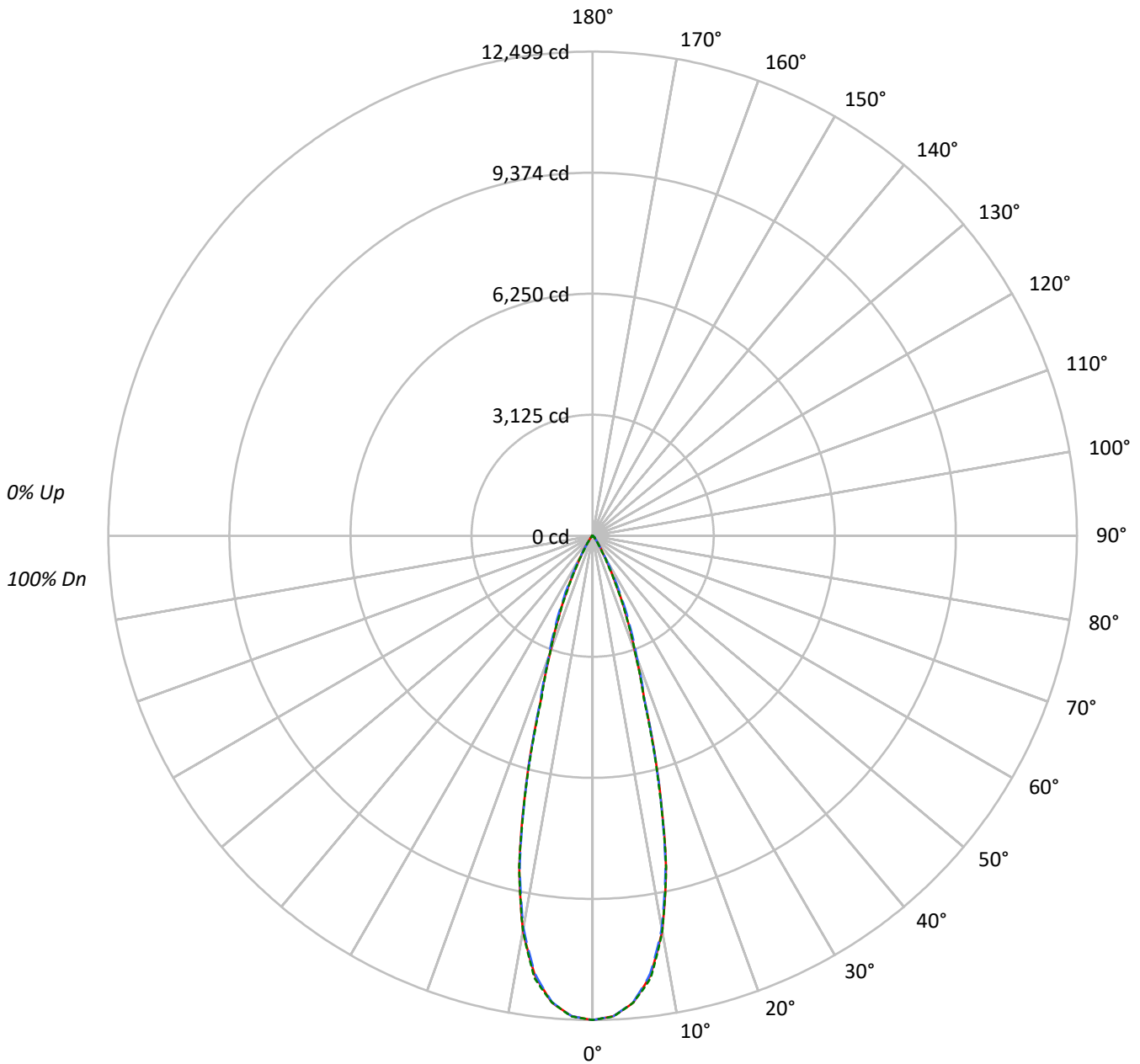
Input Watts (W): 38.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P748357

CATALOG NUMBER: LD4D45BD010-EU4DR3040509040-4LBCSSQMB

### Luminous Intensity Polar Plot





TEST NUMBER: P748357

CATALOG NUMBER: LD4D45BD010-EU4DR3040509040-4LBCSSQMB

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

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

	0°	45°	90°
0°	956693	956693	956693
5°	929229	928145	929283
10°	804857	799184	804663
15°	525131	522310	519679
20°	261123	270922	260773
25°	131532	148331	128838
30°	52668	57379	45880
35°	24426	23398	19614
40°	10542	11711	9932
45°	7437	9234	7502
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: P748357

CATALOG NUMBER: LD4D45BD010-EU4DR3040509040-4LBCSSQMB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1099.1	28.3
10°-20°	1770.1	45.5
20°-30°	764.9	19.7
30°-40°	174.3	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°	3634.0	93.5
0°-40°	3808.4	98.0
0°-60°	3882.9	99.9
0°-90°	3887.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3887.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	12499	12499	12499	12499	12499	
5°	12094	12082	12080	12105	12094	1100
15°	6627	6547	6591	6570	6558	1774
25°	1557	1616	1756	1575	1526	745
35°	261	267	250	248	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: P748357

CATALOG NUMBER: LD4D45BD010-EU4DR3040509040-4LBCSSQMB

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	12498.7	12498.7	12498.7	12498.7	12498.7
2.5°	12415.9	12407.3	12412.2	12418.4	12420.8
5°	12093.7	12082.1	12079.6	12104.8	12094.4
7.5°	11443.9	11427.3	11402.2	11459.2	11512.6
10°	10355.3	10336.9	10282.3	10309.3	10352.8
12.5°	8748.1	8688.6	8687.4	8773.3	8761.6
15°	6626.8	6547.0	6591.2	6569.7	6558.0
17.5°	4456.3	4425.6	4484.5	4466.7	4390.0
20°	3205.7	3213.7	3326.0	3269.5	3201.4
22.5°	2339.2	2368.1	2501.2	2355.8	2302.4
25°	1557.4	1616.3	1756.3	1575.2	1525.5
27.5°	957.9	984.9	1126.7	945.6	918.6
30°	595.9	582.4	649.2	557.2	519.1
32.5°	390.9	373.7	395.2	354.7	324.0
35°	261.4	266.9	250.4	248.5	209.9
37.5°	163.2	187.8	165.7	176.7	135.0
40°	105.5	136.2	117.2	129.5	99.4
42.5°	86.5	104.9	96.3	102.5	88.4
45°	68.7	85.3	85.3	85.3	69.3
47.5°	38.0	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)