

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: P753061

Luminaire Tested: LD4D75BD010-EU4DR3070959050-4LBSQW1B

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P753061  
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: LD4D75BD010-EU4DR3070959050-4LBSQW1B  
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

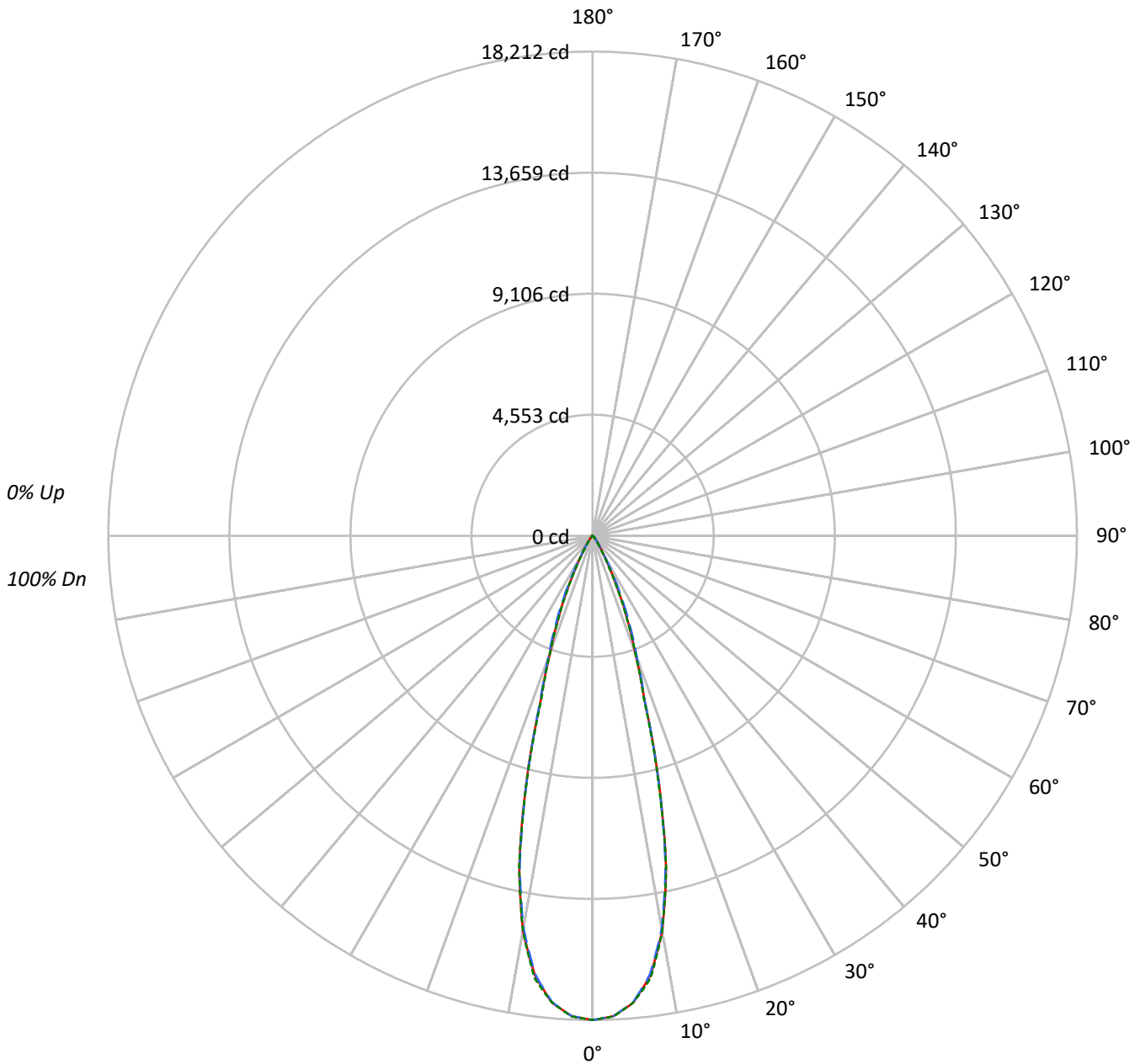
Lumens per Lamp: N/A  
Luminaire Lumens: 5663.7 lumens  
Efficiency: N/A  
Efficacy: 78.2 lumens/watt  
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49  
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')  
CIE Type: Direct

Input Watts (W): 72.4  
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: P753061  
CATALOG NUMBER: LD4D75BD010-EU4DR3070959050-4LBSQW1B

### Luminous Intensity Polar Plot





TEST NUMBER: P753061

CATALOG NUMBER: LD4D75BD010-EU4DR3070959050-4LBSQW1B

**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																			
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°	1393970	1393970	1393970
5°	1353946	1352371	1354015
10°	1172726	1164456	1172446
15°	765144	761039	757212
20°	380472	394743	379959
25°	191657	216124	187729
30°	76736	83612	66854
35°	35592	34088	28575
40°	15368	17066	14468
45°	10836	13455	10933
50°	3727	9800	3942
55°	2149	4057	2269
60°	1500	1776	1500
65°	978	978	978
70°	604	403	604
75°	0	266	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 13455 cd/sqm



TEST NUMBER: P753061

CATALOG NUMBER: LD4D75BD010-EU4DR3070959050-4LBSQW1B

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1601.4	28.3
10°-20°	2579.1	45.5
20°-30°	1114.5	19.7
30°-40°	254.0	4.5
40°-50°	87.2	1.5
50°-60°	21.3	0.4
60°-70°	5.5	0.1
70°-80°	0.6	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°	5295.0	93.5
0°-40°	5549.0	98.0
0°-60°	5657.6	99.9
0°-90°	5663.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5663.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	18212	18212	18212	18212	18212	
5°	17621	17604	17601	17637	17622	1603
15°	9656	9539	9604	9572	9556	2585
25°	2269	2355	2559	2295	2223	1086
35°	381	389	365	362	306	258
45°	100	124	124	124	101	71
55°	16	17	30	18	17	16
65°	5	5	5	5	5	5
75°	0	0	1	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P753061

CATALOG NUMBER: LD4D75BD010-EU4DR3070959050-4LBSQW1B

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	18211.5	18211.5	18211.5	18211.5	18211.5
2.5°	18090.7	18078.2	18085.4	18094.3	18097.9
5°	17621.3	17604.3	17600.8	17637.4	17622.2
7.5°	16674.5	16650.3	16613.7	16696.8	16774.6
10°	15088.3	15061.5	14981.9	15021.2	15084.7
12.5°	12746.6	12659.9	12658.1	12783.2	12766.3
15°	9655.6	9539.4	9603.8	9572.5	9555.5
17.5°	6493.1	6448.4	6534.2	6508.3	6396.5
20°	4670.9	4682.5	4846.1	4763.9	4664.6
22.5°	3408.4	3450.4	3644.4	3432.5	3354.7
25°	2269.3	2355.1	2559.0	2295.2	2222.8
27.5°	1395.7	1435.1	1641.6	1377.8	1338.5
30°	868.2	848.5	946.0	811.9	756.4
32.5°	569.6	544.5	575.8	516.8	472.1
35°	380.9	388.9	364.8	362.1	305.8
37.5°	237.8	273.6	241.4	257.5	196.7
40°	153.8	198.5	170.8	188.7	144.8
42.5°	126.1	152.9	140.4	149.3	128.8
45°	100.1	124.3	124.3	124.3	101.0
47.5°	55.4	83.2	106.4	84.9	59.0
50°	31.3	42.0	82.3	43.8	33.1
52.5°	21.5	24.1	56.3	25.0	22.4
55°	16.1	17.0	30.4	17.9	17.0
57.5°	12.5	13.4	16.1	13.4	12.5
60°	9.8	9.8	11.6	10.7	9.8
62.5°	7.2	7.2	8.0	7.2	7.2
65°	5.4	5.4	5.4	5.4	5.4
67.5°	2.7	3.6	3.6	3.6	3.6
70°	2.7	1.8	1.8	1.8	2.7
72.5°	1.8	0.9	0.9	0.9	0.9
75°	0.0	0.0	0.9	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)