

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: P748784

Luminaire Tested: LD4D45BD010-EU4DR6040509024-4LBSQW1B

Issue Date: 2/5/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P748784  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-57)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D45BD010-EU4DR6040509024-4LBSQW1B  
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 60° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

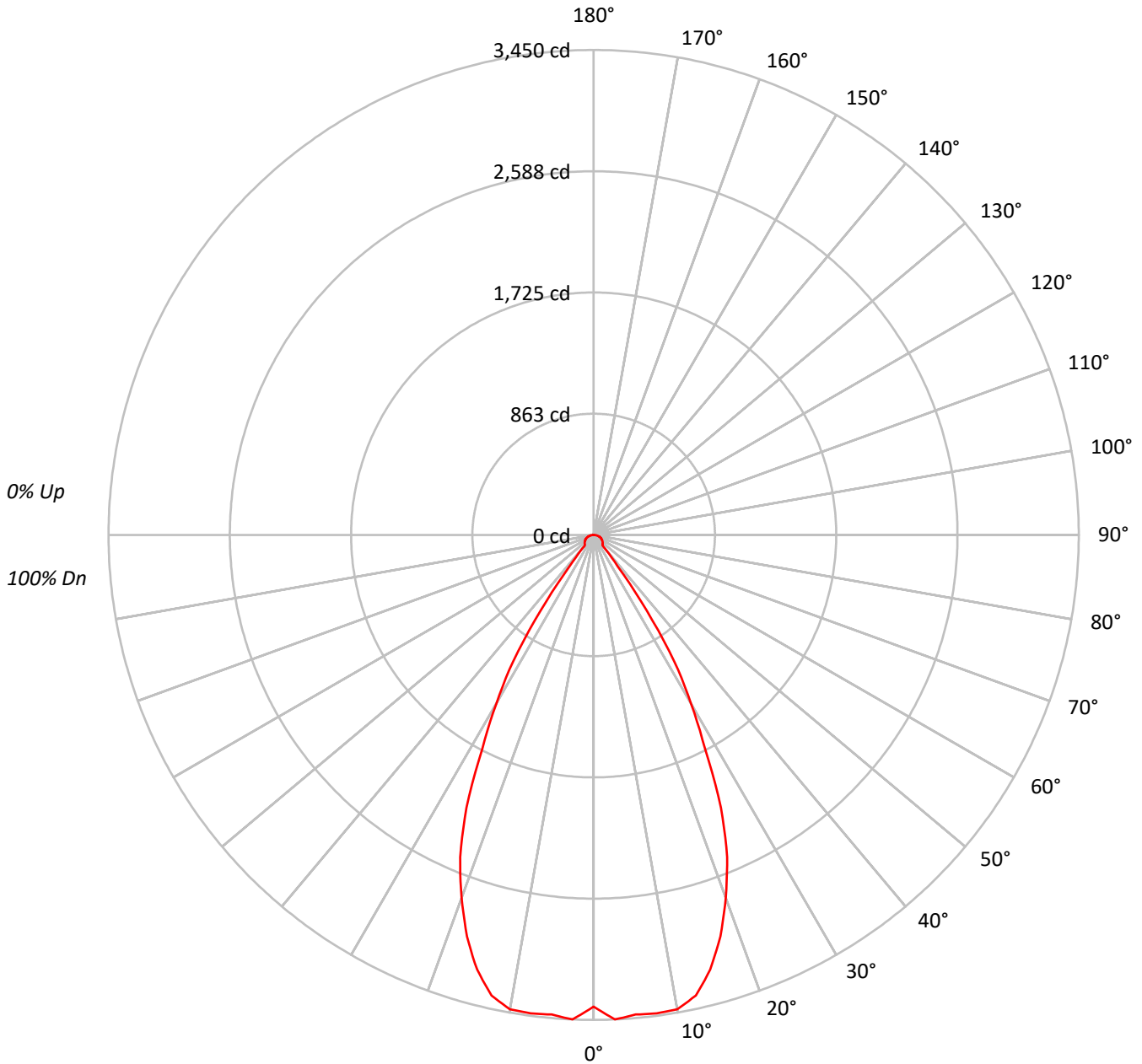
Lumens per Lamp: N/A  
Luminaire Lumens: 2825.6 lumens  
Efficiency: N/A  
Efficacy: 73.0 lumens/watt  
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.83  
Luminous Opening: Circular (Dia: 0.35' x H: 0')  
CIE Type: Direct

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: P748784  
CATALOG NUMBER: LD4D45BD010-EU4DR6040509024-4LBSQW1B

### Luminous Intensity Polar Plot





TEST NUMBER: P748784

CATALOG NUMBER: LD4D45BD010-EU4DR6040509024-4LBSQW1B

**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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93																			
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86																			
3	102	96	90	86	100	94	89	86	91	88	84	89	86	83	87	84	82	80																			
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75																			
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	70																			
6	88	79	73	69	87	78	73	69	77	72	68	75	71	68	74	70	67	66																			
7	84	75	69	65	83	74	68	64	73	68	64	72	67	64	71	67	63	62																			
8	80	71	65	61	79	70	65	61	69	64	60	68	64	60	67	63	60	59																			
9	77	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55																			
10	73	64	58	54	72	63	58	54	62	58	54	62	57	54	61	57	54	53																			

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

	0°
0°	366657
5°	375680
10°	380213
15°	362206
20°	319355
25°	258303
30°	174724
35°	87552
40°	14206
45°	13907
50°	14176
55°	14401
60°	14794
65°	15124
70°	15494
75°	15662
80°	15101
85°	12536

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 75°  
 Luminance: 15662 cd/sqm



TEST NUMBER: P748784

CATALOG NUMBER: LD4D45BD010-EU4DR6040509024-4LBSQW1B

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	327.4	11.6
10°-20°	885.7	31.3
20°-30°	953.0	33.7
30°-40°	414.2	14.7
40°-50°	69.6	2.5
50°-60°	67.7	2.4
60°-70°	57.8	2.0
70°-80°	38.7	1.4
80°-90°	11.6	0.4
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°	2166.0	76.7
0°-40°	2580.3	91.3
0°-60°	2717.5	96.2
0°-90°	2825.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2825.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3356	
5°	3425	327
15°	3202	886
25°	2143	953
35°	656	414
45°	90	70
55°	76	68
65°	58	58
75°	37	39
85°	10	12
90°	0	



TEST NUMBER: P748784

CATALOG NUMBER: LD4D45BD010-EU4DR6040509024-4LBSQW1B

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3355.8
2.5°	3450.2
5°	3425.3
7.5°	3433.1
10°	3427.0
12.5°	3356.3
15°	3202.1
17.5°	2995.1
20°	2746.6
22.5°	2480.6
25°	2142.6
27.5°	1713.7
30°	1384.9
32.5°	1067.4
35°	656.4
37.5°	280.8
40°	99.6
42.5°	91.7
45°	90.0
47.5°	86.9
50°	83.4
52.5°	79.5
55°	75.6
57.5°	71.6
60°	67.7
62.5°	63.3
65°	58.5
67.5°	53.7
70°	48.5
72.5°	42.8
75°	37.1
77.5°	30.6
80°	24.0
82.5°	17.0
85°	10.0
87.5°	3.5
90°	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





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

Scaled Data Report



— 0°-180°

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)