

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: P746991

Luminaire Tested: LD4D35BD010-EU4DR4520359024-4LBSQW1MW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P746991  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-36)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/30/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D35BD010-EU4DR4520359024-4LBSQW1MW  
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 45° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

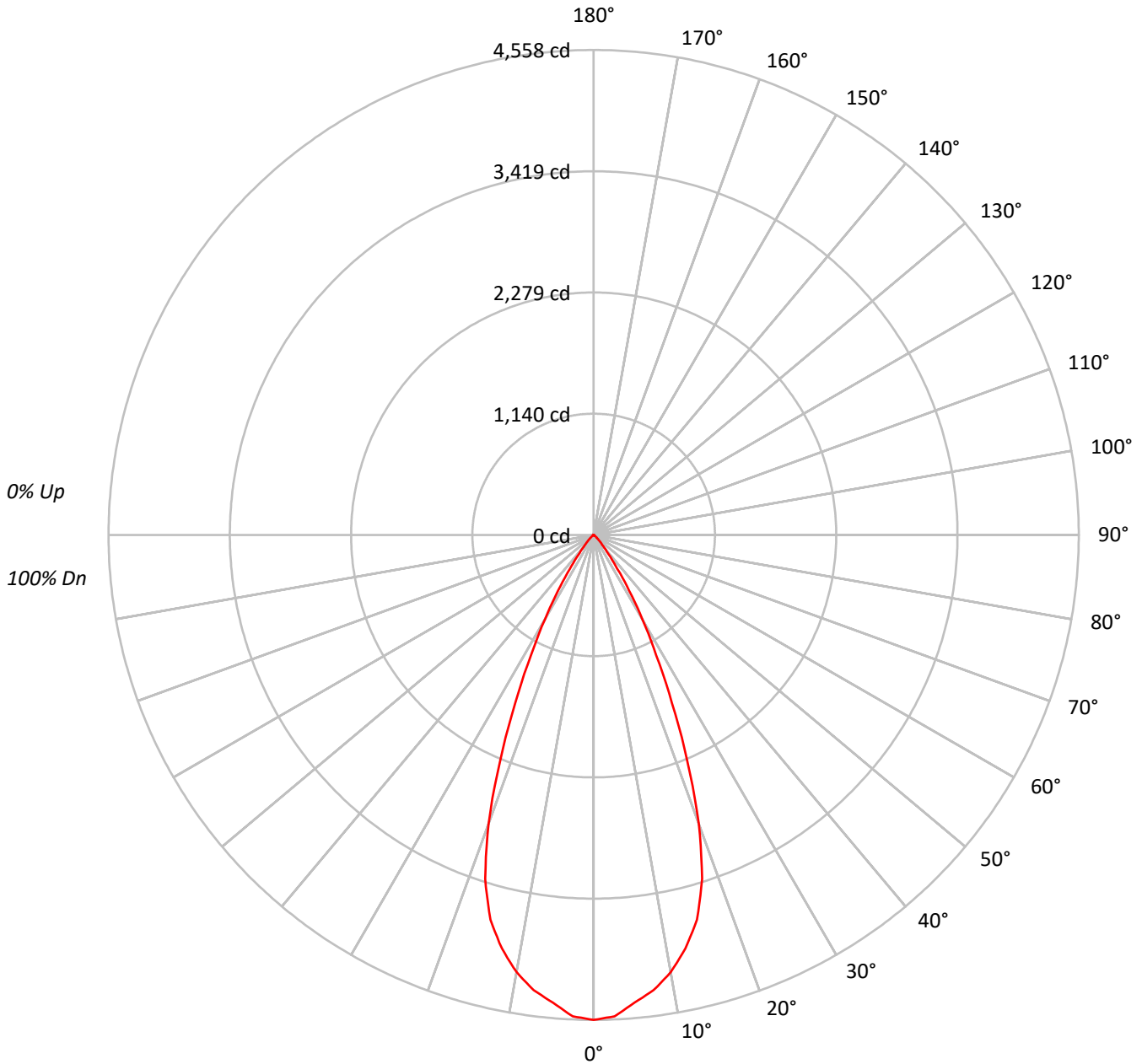
Lumens per Lamp: N/A  
Luminaire Lumens: 2578.8 lumens  
Efficiency: N/A  
Efficacy: 83.7 lumens/watt  
Spacing Criteria (0/90/45): 0.75 / 0.75 / 0.69  
Luminous Opening: Circular (Dia: 0.35' x H: 0')  
CIE Type: Direct

Input Watts (W): 30.8  
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: P746991  
CATALOG NUMBER: LD4D35BD010-EU4DR4520359024-4LBSQW1MW

### Luminous Intensity Polar Plot





TEST NUMBER: P746991

CATALOG NUMBER: LD4D35BD010-EU4DR4520359024-4LBSQW1MW

**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	114	112	110	108	112	110	108	106	106	104	103	102	101	100	98	98	97	95					95														
2	109	105	102	99	107	103	100	98	100	98	95	97	95	93	95	93	91	90					90														
3	105	99	95	91	103	98	94	91	95	92	89	93	90	88	91	89	87	85					85														
4	100	94	89	85	99	93	88	85	91	87	84	89	86	83	87	84	82	81					81														
5	96	89	84	80	95	88	83	80	86	82	79	85	81	79	83	80	78	77					77														
6	92	85	80	76	91	84	79	76	83	78	75	81	77	75	80	77	74	73					73														
7	89	81	75	72	87	80	75	72	79	74	71	78	74	71	77	73	71	69					69														
8	85	77	72	68	84	76	71	68	75	71	68	74	70	67	73	70	67	66					66														
9	82	73	68	65	81	73	68	65	72	68	65	71	67	64	71	67	64	63					63														
10	79	70	65	62	78	70	65	62	69	65	62	68	64	61	68	64	61	60					60														

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

	0°
0°	498011
5°	483834
10°	462890
15°	423650
20°	336098
25°	209828
30°	115654
35°	51926
40°	20453
45°	9642
50°	4572
55°	2381
60°	1180
65°	284
70°	128
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 9642 cd/sqm



TEST NUMBER: P746991

CATALOG NUMBER: LD4D35BD010-EU4DR4520359024-4LBSQW1MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	414.5	16.1
10°-20°	1020.1	39.6
20°-30°	807.8	31.3
30°-40°	269.0	10.4
40°-50°	53.4	2.1
50°-60°	12.1	0.5
60°-70°	1.8	0.1
70°-80°	0.1	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°	2242.4	87.0
0°-40°	2511.4	97.4
0°-60°	2576.9	99.9
0°-90°	2578.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2578.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4558	
5°	4411	414
15°	3745	1020
25°	1740	808
35°	389	269
45°	62	53
55°	12	12
65°	1	2
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P746991

CATALOG NUMBER: LD4D35BD010-EU4DR4520359024-4LBSQW1MW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4558.0
2.5°	4528.2
5°	4411.4
7.5°	4314.9
10°	4172.2
12.5°	3982.2
15°	3745.3
17.5°	3388.9
20°	2890.6
22.5°	2296.9
25°	1740.5
27.5°	1274.5
30°	916.7
32.5°	623.4
35°	389.3
37.5°	230.9
40°	143.4
42.5°	94.3
45°	62.4
47.5°	40.2
50°	26.9
52.5°	17.9
55°	12.5
57.5°	8.2
60°	5.4
62.5°	2.9
65°	1.1
67.5°	0.4
70°	0.4
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
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)