

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: P748866

Luminaire Tested: LD4D45BD010-EU4DR6540509027-4LBCSSQMW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P748866
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-147)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D45BD010-EU4DR6540509027-4LBCSSQMW
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

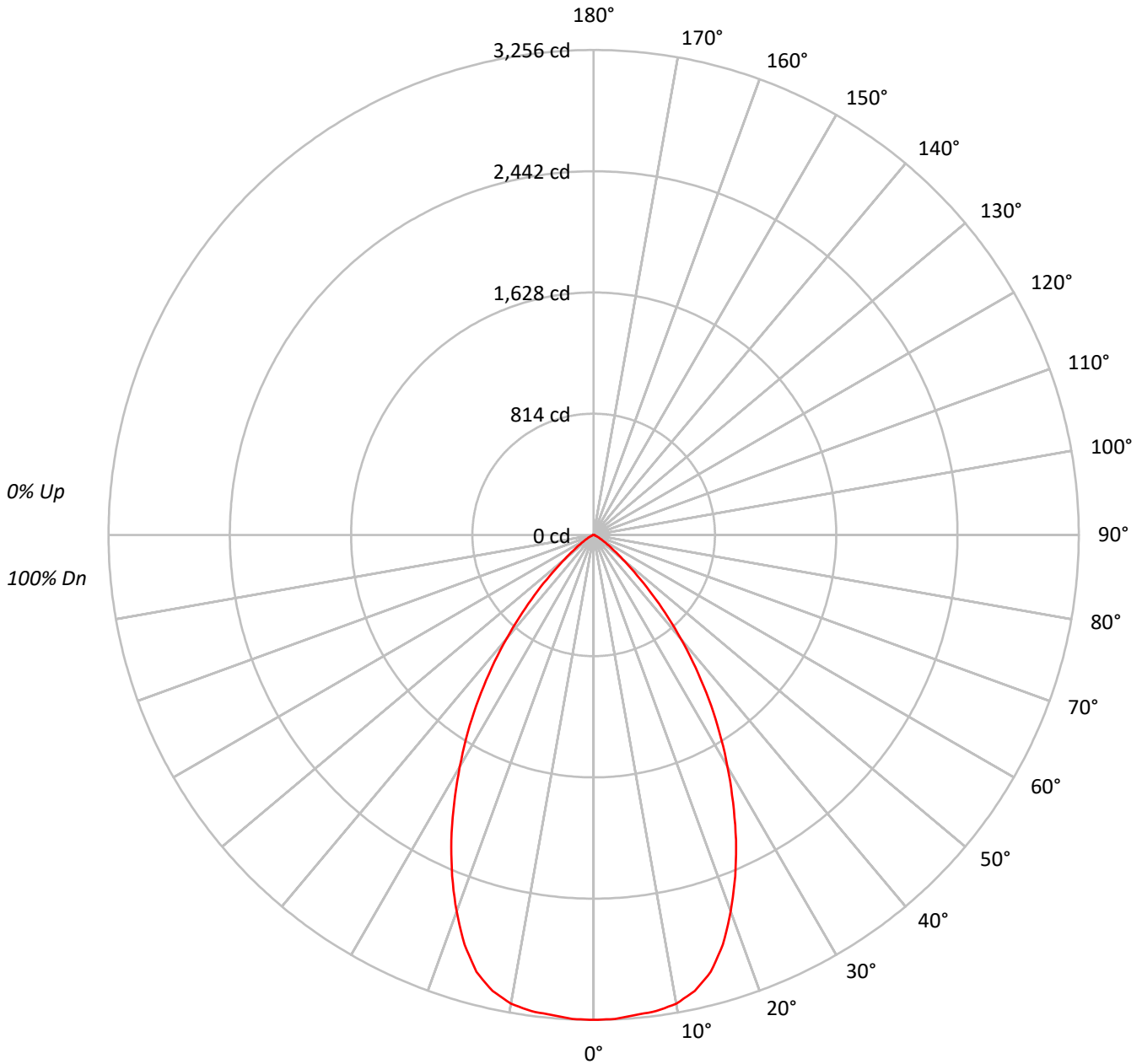
Lumens per Lamp: N/A
Luminaire Lumens: 3585.5 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.96
Luminous Opening: Circular (Dia: 0.48' x H: 0')
CIE Type: Direct

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: P748866
CATALOG NUMBER: LD4D45BD010-EU4DR6540509027-4LBCSSQMW

Luminous Intensity Polar Plot





TEST NUMBER: P748866

CATALOG NUMBER: LD4D45BD010-EU4DR6540509027-4LBCSSQMW

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	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	93																			
2	107	102	97	94	105	100	96	92	97	93	90	94	91	88	91	89	87	85																			
3	101	94	88	84	99	92	87	83	90	86	82	87	84	81	85	82	80	78																			
4	95	87	81	76	93	86	80	76	84	79	75	82	77	74	80	76	73	72																			
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66																			
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61																			
7	80	70	64	59	79	69	63	59	68	63	59	67	62	58	66	61	58	56																			
8	76	66	59	55	75	65	59	55	64	58	54	63	58	54	62	57	54	52																			
9	72	61	55	51	71	61	55	51	60	54	51	59	54	50	58	54	50	49																			
10	68	58	52	47	67	57	51	47	57	51	47	56	51	47	55	50	47	46																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	190134
5°	189652
10°	189491
15°	183654
20°	167189
25°	145696
30°	121181
35°	96017
40°	69303
45°	43784
50°	22824
55°	12127
60°	6366
65°	3510
70°	1469
75°	1625
80°	1110
85°	938

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 43784 cd/sqm



TEST NUMBER: P748866

CATALOG NUMBER: LD4D45BD010-EU4DR6540509027-4LBCSSQMW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.9	8.6
10°-20°	843.1	23.5
20°-30°	1030.5	28.7
30°-40°	836.1	23.3
40°-50°	416.7	11.6
50°-60°	116.2	3.2
60°-70°	26.4	0.7
70°-80°	6.9	0.2
80°-90°	1.8	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°	2181.4	60.8
0°-40°	3017.6	84.2
0°-60°	3550.4	99.0
0°-90°	3585.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3585.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3256	
5°	3235	308
15°	3037	843
25°	2261	1031
35°	1347	836
45°	530	417
55°	119	116
65°	25	26
75°	7	7
85°	1	2
90°	0	



TEST NUMBER: P748866

CATALOG NUMBER: LD4D45BD010-EU4DR6540509027-4LBCSSQMW

CANDELA DISTRIBUTION (FULL):

	0°
0°	3255.5
2.5°	3253.1
5°	3234.9
7.5°	3224.4
10°	3195.2
12.5°	3135.9
15°	3037.4
17.5°	2883.3
20°	2690.0
22.5°	2481.5
25°	2260.9
27.5°	2025.1
30°	1796.9
32.5°	1571.5
35°	1346.7
37.5°	1122.3
40°	909.0
42.5°	709.0
45°	530.1
47.5°	369.3
50°	251.2
52.5°	173.2
55°	119.1
57.5°	80.4
60°	54.5
62.5°	37.8
65°	25.4
67.5°	12.9
70°	8.6
72.5°	8.1
75°	7.2
77.5°	4.8
80°	3.3
82.5°	2.4
85°	1.4
87.5°	1.0
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)