

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: P755457

Luminaire Tested: LD4D90BD010-EU4DR3570959040-4LBCSSQMW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P755457  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-20)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/30/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D90BD010-EU4DR3570959040-4LBCSSQMW  
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 35° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

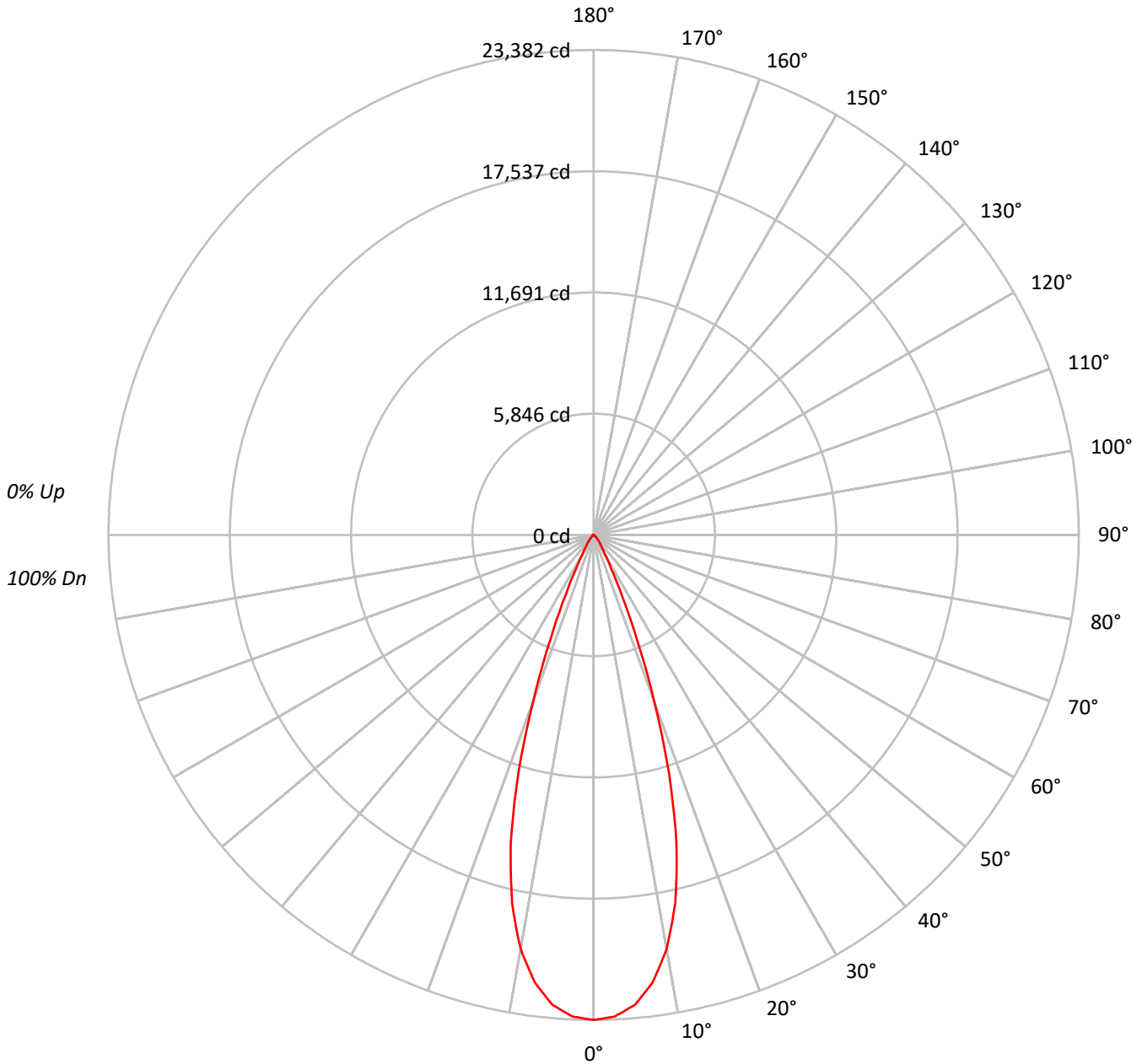
Lumens per Lamp: N/A  
Luminaire Lumens: 8498.0 lumens  
Efficiency: N/A  
Efficacy: 85.9 lumens/watt  
Spacing Criteria (0/90/45): 0.6 / 0.6 / 0.54  
Luminous Opening: Circular (Dia: 0.35' x H: 0')  
CIE Type: Direct

Input Watts (W): 98.9  
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: P755457  
CATALOG NUMBER: LD4D90BD010-EU4DR3570959040-4LBCSSQMW

### Luminous Intensity Polar Plot





TEST NUMBER: P755457

CATALOG NUMBER: LD4D90BD010-EU4DR3570959040-4LBCSSQMW

**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	115	112	110	108	112	110	108	107	106	105	103	103	101	100	99	98	98	96																			
2	110	106	103	101	108	105	102	99	102	99	97	99	97	95	96	95	93	92																			
3	106	101	97	94	105	100	96	93	97	95	92	95	93	91	93	91	89	88																			
4	103	97	92	89	101	96	92	89	94	90	88	92	89	87	90	88	86	84																			
5	99	93	88	85	98	92	87	84	90	86	84	89	85	83	87	84	82	81																			
6	96	89	84	81	94	88	84	81	87	83	80	85	82	80	84	81	79	78																			
7	93	85	81	78	91	85	80	77	84	80	77	83	79	77	82	79	76	75																			
8	90	82	78	74	88	82	77	74	81	77	74	80	76	74	79	76	73	72																			
9	87	79	75	72	86	79	75	72	78	74	71	77	74	71	77	73	71	70																			
10	84	77	72	69	83	76	72	69	76	72	69	75	71	69	74	71	69	68																			

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

	0°
0°	2554757
5°	2494727
10°	2248415
15°	1745128
20°	989808
25°	385080
30°	143662
35°	78749
40°	51475
45°	31321
50°	19939
55°	14096
60°	10314
65°	5610
70°	415
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 31321 cd/sqm



TEST NUMBER: P755457

CATALOG NUMBER: LD4D90BD010-EU4DR3570959040-4LBCSSQMW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2091.9	24.6
10°-20°	4084.4	48.1
20°-30°	1665.8	19.6
30°-40°	398.6	4.7
40°-50°	166.1	2.0
50°-60°	68.8	0.8
60°-70°	21.5	0.3
70°-80°	0.5	0.0
80°-90°	0.4	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°	7842.1	92.3
0°-40°	8240.8	97.0
0°-60°	8475.6	99.7
0°-90°	8498.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8498.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	23382	
5°	22746	###
15°	15428	4084
25°	3194	1666
35°	590	399
45°	203	166
55°	74	69
65°	22	22
75°	0	1
85°	0	0
90°	0	



TEST NUMBER: P755457

CATALOG NUMBER: LD4D90BD010-EU4DR3570959040-4LBCSSQMW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	23382.2
2.5°	23241.9
5°	22745.9
7.5°	21756.4
10°	20265.8
12.5°	18166.9
15°	15427.9
17.5°	12078.1
20°	8512.8
22.5°	5428.3
25°	3194.2
27.5°	1805.6
30°	1138.7
32.5°	799.5
35°	590.4
37.5°	456.5
40°	360.9
42.5°	278.0
45°	202.7
47.5°	151.7
50°	117.3
52.5°	93.1
55°	74.0
57.5°	59.9
60°	47.2
62.5°	34.4
65°	21.7
67.5°	7.7
70°	1.3
72.5°	1.3
75°	0.0
77.5°	0.0
80°	0.0
82.5°	1.3
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)