

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: P755873

Luminaire Tested: LD4D90BD010-EU4DR6570959024-4LBCSSQMW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P755873
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: LD4D90BD010-EU4DR6570959024-4LBCSSQMW
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6601.9 lumens
Efficiency: N/A
Efficacy: 66.8 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

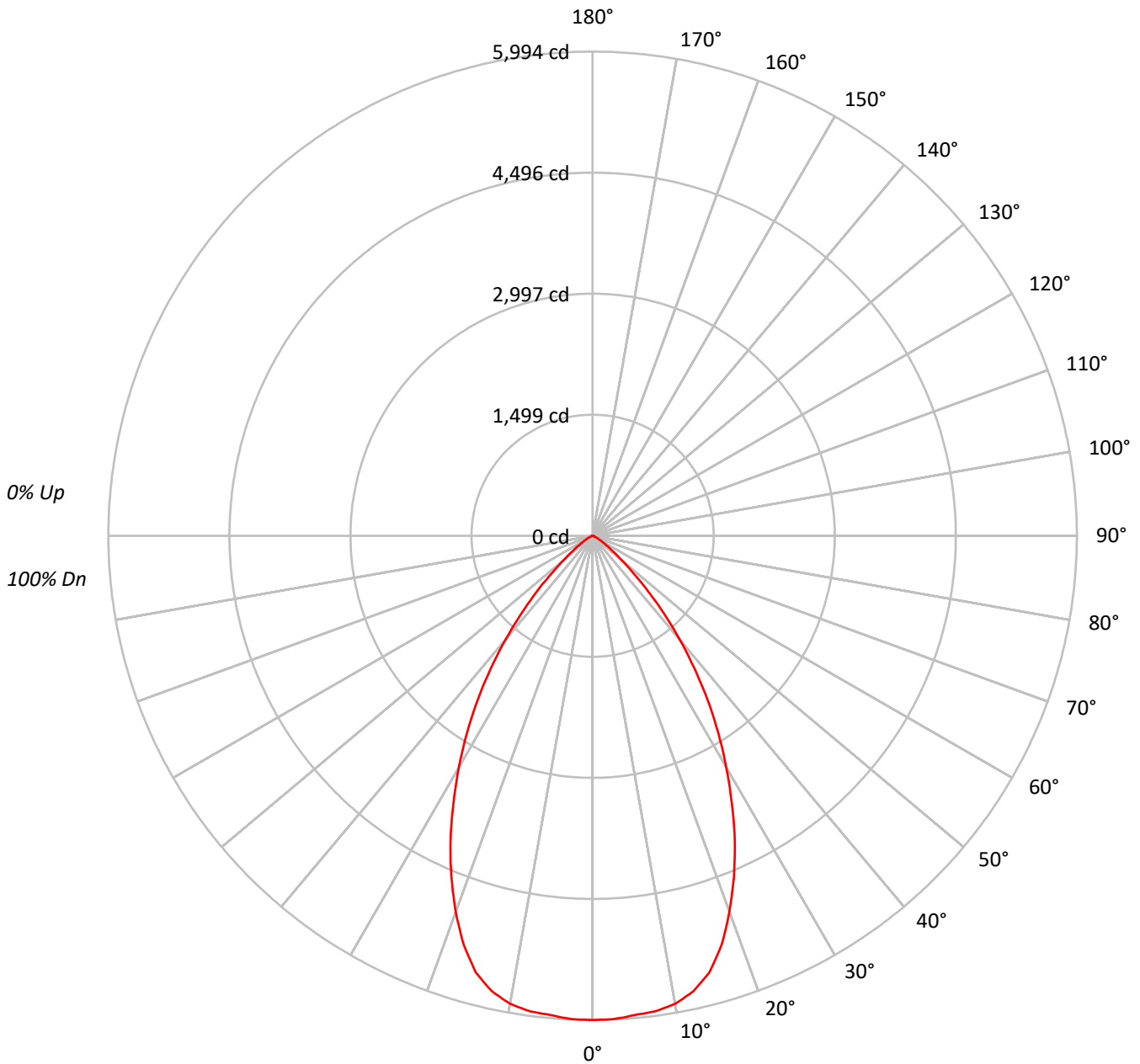
Input Watts (W): 98.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				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			100
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	93			93
2	107	102	97	94	105	100	96	92	97	93	90	94	91	88	91	89	87	85			85
3	101	94	88	84	99	92	87	83	90	86	82	87	84	81	85	82	80	78			78
4	95	87	81	76	93	86	80	76	84	79	75	82	77	74	80	76	73	72			72
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66			66
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61			61
7	80	70	64	59	79	69	63	59	68	63	59	67	62	58	66	61	58	56			56
8	76	66	59	55	75	65	59	55	64	58	54	63	58	54	62	57	54	52			52
9	72	61	55	51	71	61	55	51	60	54	51	59	54	50	58	54	50	49			49
10	68	58	52	47	67	57	51	47	57	51	47	56	51	47	55	50	47	46			46

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	350090
5°	349206
10°	348908
15°	338152
20°	307846
25°	268270
30°	223122
35°	176790
40°	127604
45°	80613
50°	42023
55°	22330
60°	11727
65°	6454
70°	2715
75°	2979
80°	2085
85°	1742

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 80613 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	566.9	8.6
10°-20°	1552.3	23.5
20°-30°	1897.5	28.7
30°-40°	1539.5	23.3
40°-50°	767.2	11.6
50°-60°	214.0	3.2
60°-70°	48.6	0.7
70°-80°	12.7	0.2
80°-90°	3.2	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°	4016.6	60.8
0°-40°	5556.2	84.2
0°-60°	6537.3	99.0
0°-90°	6601.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6601.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5994	
5°	5956	567
15°	5593	1552
25°	4163	1897
35°	2480	1540
45°	976	767
55°	219	214
65°	47	49
75°	13	13
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5994.3
2.5°	5989.9
5°	5956.4
7.5°	5937.1
10°	5883.3
12.5°	5774.1
15°	5592.6
17.5°	5309.0
20°	4953.1
22.5°	4569.1
25°	4163.0
27.5°	3728.7
30°	3308.5
32.5°	2893.7
35°	2479.6
37.5°	2066.5
40°	1673.7
42.5°	1305.4
45°	976.0
47.5°	680.0
50°	462.5
52.5°	318.9
55°	219.3
57.5°	148.0
60°	100.4
62.5°	69.6
65°	46.7
67.5°	23.8
70°	15.9
72.5°	15.0
75°	13.2
77.5°	8.8
80°	6.2
82.5°	4.4
85°	2.6
87.5°	1.8
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

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— 0°-180°

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