

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: P749750

Luminaire Tested: LD4D50D010-EU4DR7040509035-4LBCSSQMW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749750
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-76)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D50D010-EU4DR7040509035-4LBCSSQMW
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4903.4 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.04
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

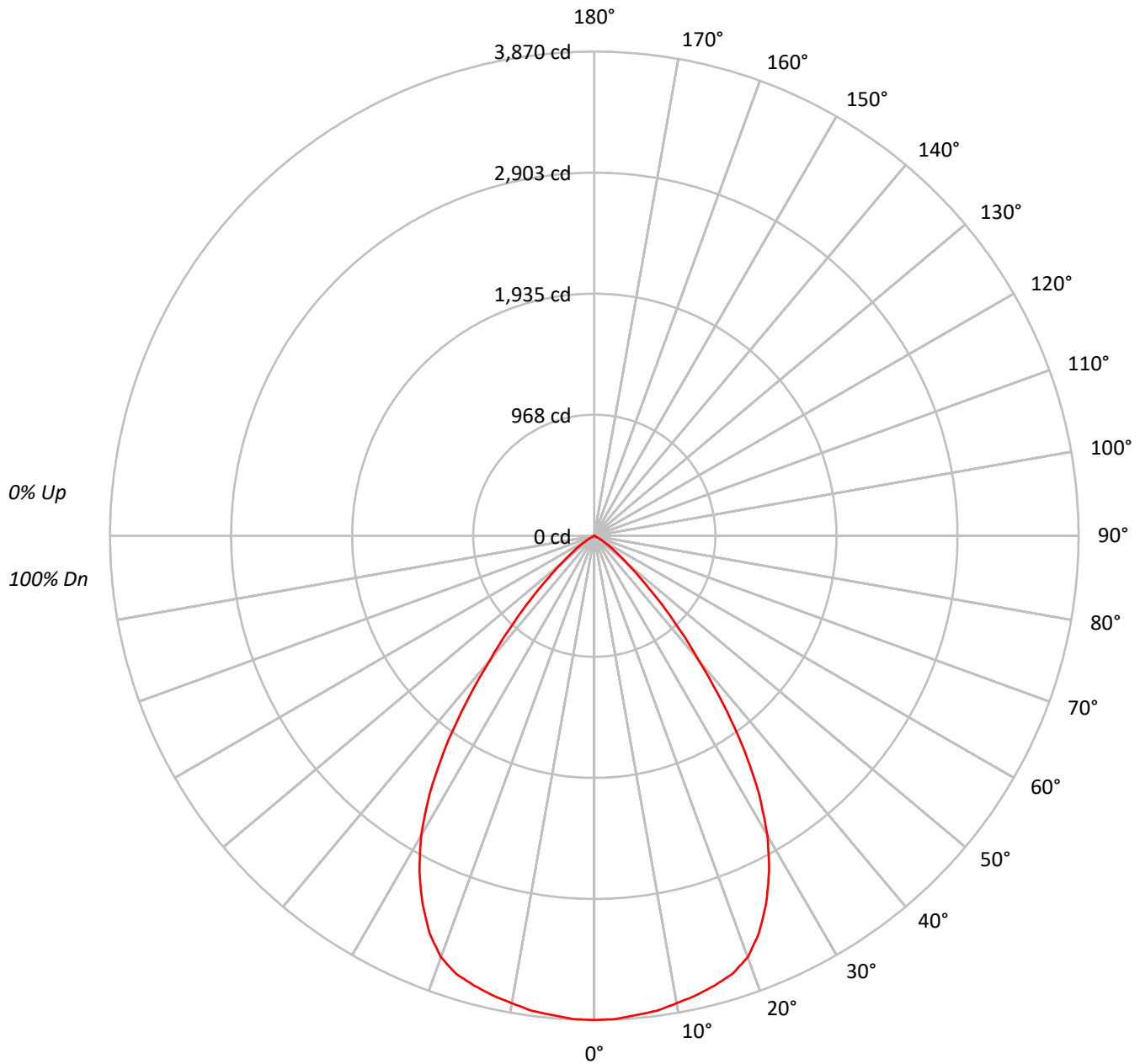
Input Watts (W): 47
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	113	110	107	105	111	108	106	103		104	102	100		100	99	97		97	95	94
2	107	102	97	94	105	100	96	92		97	93	90		94	91	88		91	89	87
3	101	94	88	84	99	92	87	83		90	85	82		87	84	81		85	82	79
4	95	87	81	76	93	86	80	76		83	78	75		81	77	74		79	76	73
5	89	80	74	69	88	79	73	69		78	72	68		76	71	68		74	70	67
6	84	75	68	63	83	74	68	63		72	67	63		71	66	62		69	65	62
7	80	69	63	58	78	69	62	58		67	62	58		66	61	57		65	61	57
8	75	65	58	54	74	64	58	54		63	57	53		62	57	53		61	56	53
9	71	61	54	50	70	60	54	50		59	53	50		58	53	49		57	53	49
10	67	57	50	46	66	56	50	46		55	50	46		55	50	46		54	49	46

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	422861
5°	421800
10°	420886
15°	420777
20°	416664
25°	391397
30°	348930
35°	278210
40°	184734
45°	110434
50°	57249
55°	30097
60°	10642
65°	181
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 110434 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	365.7	7.5
10°-20°	1048.9	21.4
20°-30°	1479.7	30.2
30°-40°	1277.4	26.1
40°-50°	572.0	11.7
50°-60°	149.7	3.1
60°-70°	9.7	0.2
70°-80°	0.0	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°	2894.4	59.0
0°-40°	4171.8	85.1
0°-60°	4893.6	99.8
0°-90°	4903.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4903.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3870	
5°	3846	366
15°	3720	1049
25°	3247	1480
35°	2086	1277
45°	715	572
55°	158	150
65°	1	10
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3870.2
2.5°	3866.0
5°	3845.8
7.5°	3829.1
10°	3793.6
12.5°	3761.6
15°	3719.9
17.5°	3671.8
20°	3583.5
22.5°	3438.0
25°	3246.6
27.5°	3024.6
30°	2765.7
32.5°	2449.1
35°	2085.8
37.5°	1684.9
40°	1295.2
42.5°	984.1
45°	714.7
47.5°	492.7
50°	336.8
52.5°	232.4
55°	158.0
57.5°	95.3
60°	48.7
62.5°	15.3
65°	0.7
67.5°	0.0
70°	0.0
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



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— 0°-180°







(END OF REPORT)