

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: P749461

Luminaire Tested: LD4D50D010-EU4DR5040509040-4LBSQW1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749461
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-44)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D50D010-EU4DR5040509040-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 50° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4913.5 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Spacing Criteria (0/90/45): 0.8 / 0.8 / 0.73
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

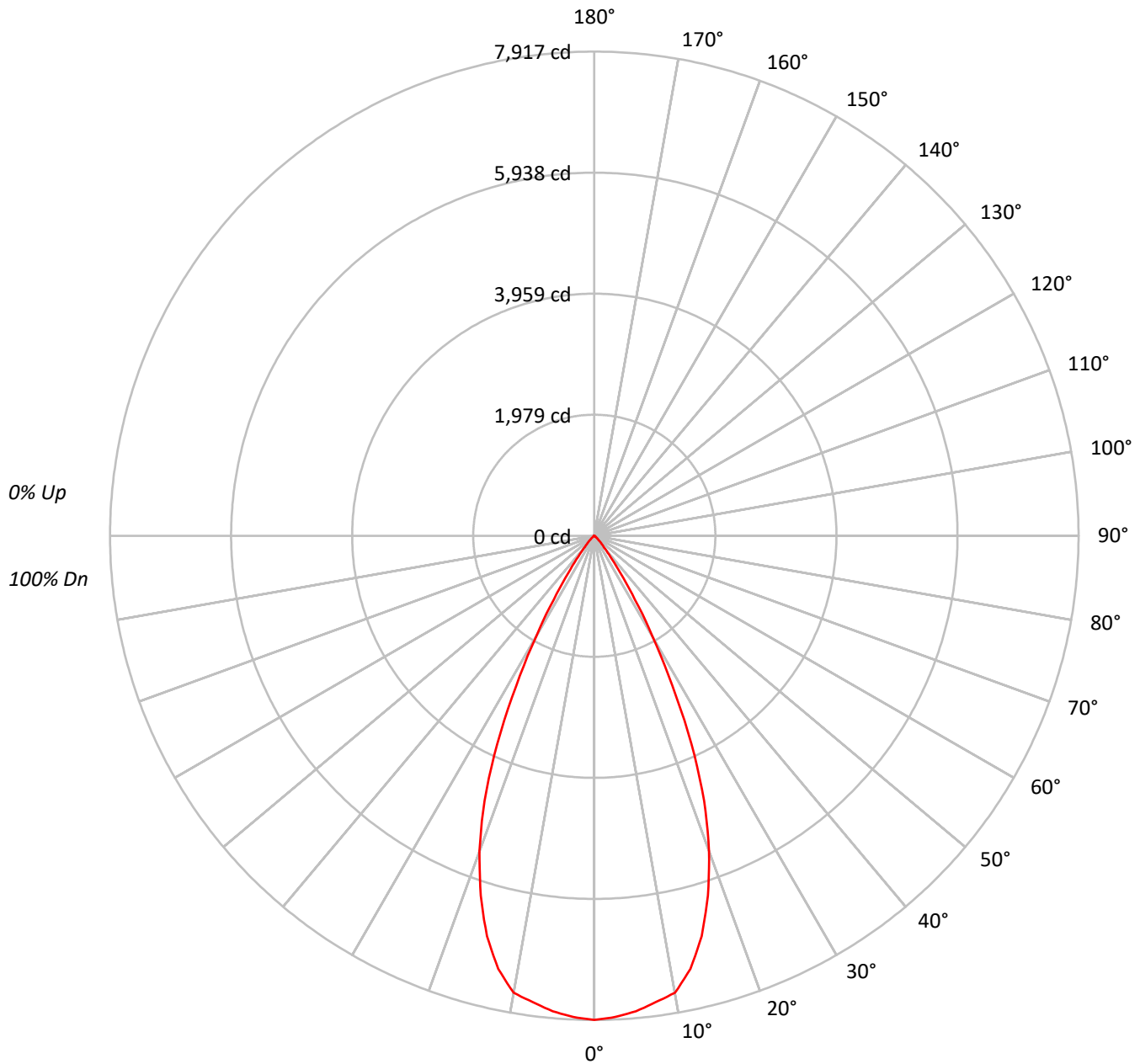
Input Watts (W): 47
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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					10
RW	70	50	30	10	70	50	30	10		50	30	10			50	30	10			50
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	114	112	109	107	112	110	108	106		106	104	102			102	101	99			98
2	109	105	101	98	107	103	100	97		100	98	95			97	95	93			95
3	105	99	95	91	103	98	94	90		95	92	89			93	90	88			91
4	100	94	89	85	99	93	88	85		90	87	84			89	85	83			87
5	96	89	84	80	95	88	83	79		86	82	79			85	81	78			83
6	92	84	79	75	91	83	79	75		82	78	74			81	77	74			79
7	88	80	75	71	87	79	74	71		78	74	71			77	73	70			76
8	85	76	71	67	84	76	71	67		75	70	67			74	70	67			73
9	81	73	68	64	80	72	67	64		71	67	64			71	67	64			70
10	78	70	64	61	77	69	64	61		68	64	61			68	64	61			67

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	864996
5°	855928
10°	841838
15°	766558
20°	637861
25°	452784
30°	239660
35°	97663
40°	36271
45°	16611
50°	6799
55°	3562
60°	1748
65°	517
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 16611 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	737.6	15.0
10°-20°	1864.2	37.9
20°-30°	1674.5	34.1
30°-40°	524.3	10.7
40°-50°	91.8	1.9
50°-60°	18.3	0.4
60°-70°	2.8	0.1
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°	4276.3	87.0
0°-40°	4800.6	97.7
0°-60°	4910.7	99.9
0°-90°	4913.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4913.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7917	
5°	7804	738
15°	6777	1864
25°	3756	1675
35°	732	524
45°	108	92
55°	19	18
65°	2	3
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	7916.8
2.5°	7877.5
5°	7804.0
7.5°	7691.9
10°	7587.8
12.5°	7254.1
15°	6776.8
17.5°	6170.8
20°	5485.9
22.5°	4693.6
25°	3755.8
27.5°	2761.3
30°	1899.6
32.5°	1236.8
35°	732.2
37.5°	420.5
40°	254.3
42.5°	165.5
45°	107.5
47.5°	65.4
50°	40.0
52.5°	27.4
55°	18.7
57.5°	12.7
60°	8.0
62.5°	4.7
65°	2.0
67.5°	0.7
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)