

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: P748397

Luminaire Tested: LD4D45BD010-EU4DR3540509027-4LBCSSQMMS

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P748397
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: LD4D45BD010-EU4DR3540509027-4LBCSSQMMS
Description: 4 INCH SQAURE SHALLOW CAST MATTE METALLIC SILVER TRIM, WITH 35° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3676.5 lumens
Efficiency: N/A
Efficacy: 95.0 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

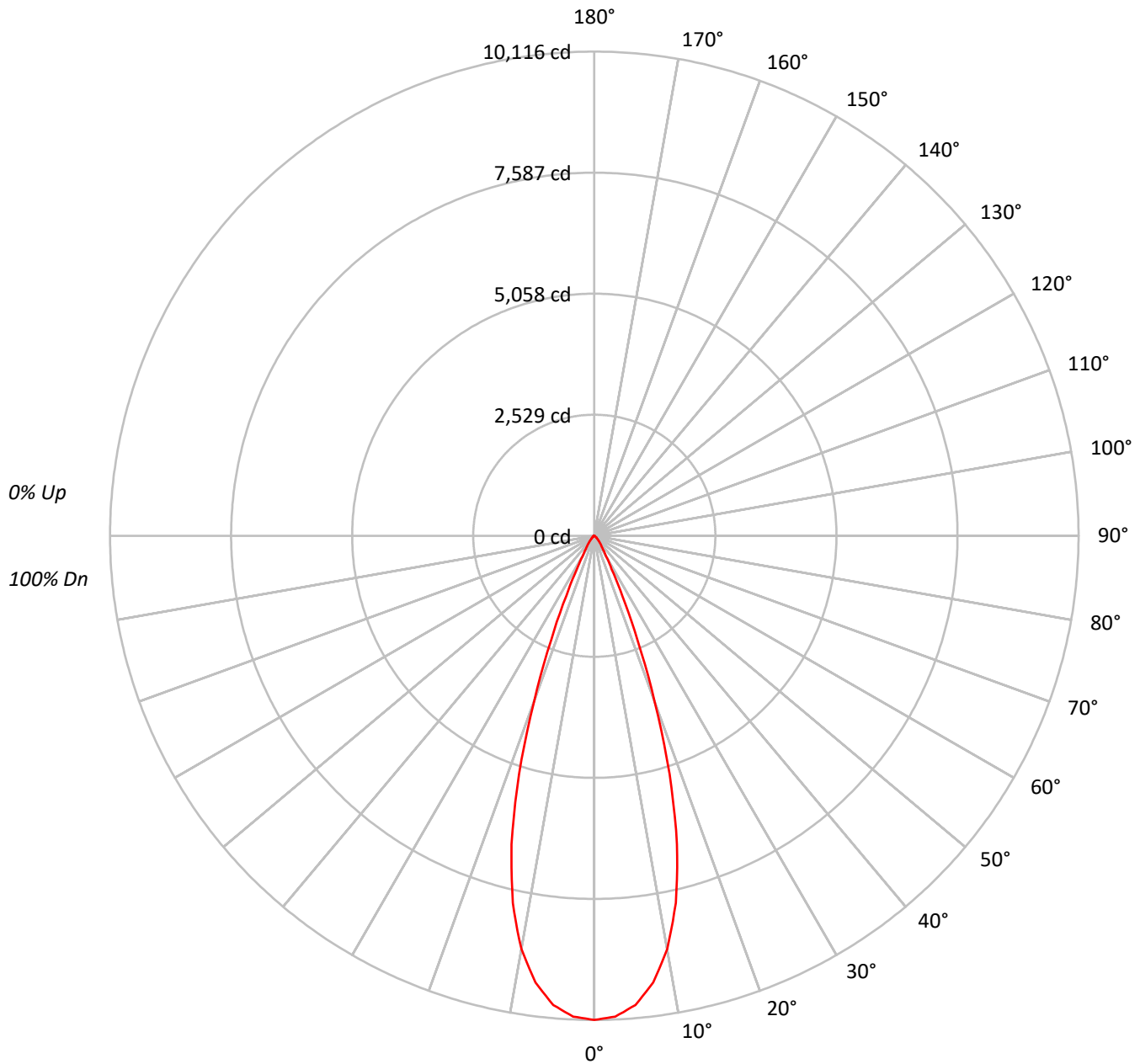
Input Watts (W): 38.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1105238
5°	1079277
10°	972710
15°	754975
20°	428210
25°	166596
30°	62148
35°	34066
40°	22265
45°	13551
50°	8635
55°	6096
60°	4458
65°	2430
70°	192
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 13551 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	905.0	24.6
10°-20°	1767.0	48.1
20°-30°	720.6	19.6
30°-40°	172.5	4.7
40°-50°	71.9	2.0
50°-60°	29.8	0.8
60°-70°	9.3	0.3
70°-80°	0.2	0.0
80°-90°	0.2	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°	3392.7	92.3
0°-40°	3565.1	97.0
0°-60°	3666.7	99.7
0°-90°	3676.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3676.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10116	
5°	9840	905
15°	6674	1767
25°	1382	721
35°	255	172
45°	88	72
55°	32	30
65°	9	9
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	10115.6
2.5°	10055.0
5°	9840.4
7.5°	9412.3
10°	8767.4
12.5°	7859.4
15°	6674.4
17.5°	5225.2
20°	3682.8
22.5°	2348.4
25°	1381.9
27.5°	781.1
30°	492.6
32.5°	345.9
35°	255.4
37.5°	197.5
40°	156.1
42.5°	120.3
45°	87.7
47.5°	65.6
50°	50.8
52.5°	40.3
55°	32.0
57.5°	25.9
60°	20.4
62.5°	14.9
65°	9.4
67.5°	3.3
70°	0.6
72.5°	0.6
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.6
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)