

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: P749785

Luminaire Tested: LD4D50D010-EU4DR7040509050-4LBSQW1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P749785
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-73)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D50D010-EU4DR7040509050-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3214.6 lumens
Efficiency: N/A
Efficacy: 68.4 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.82
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

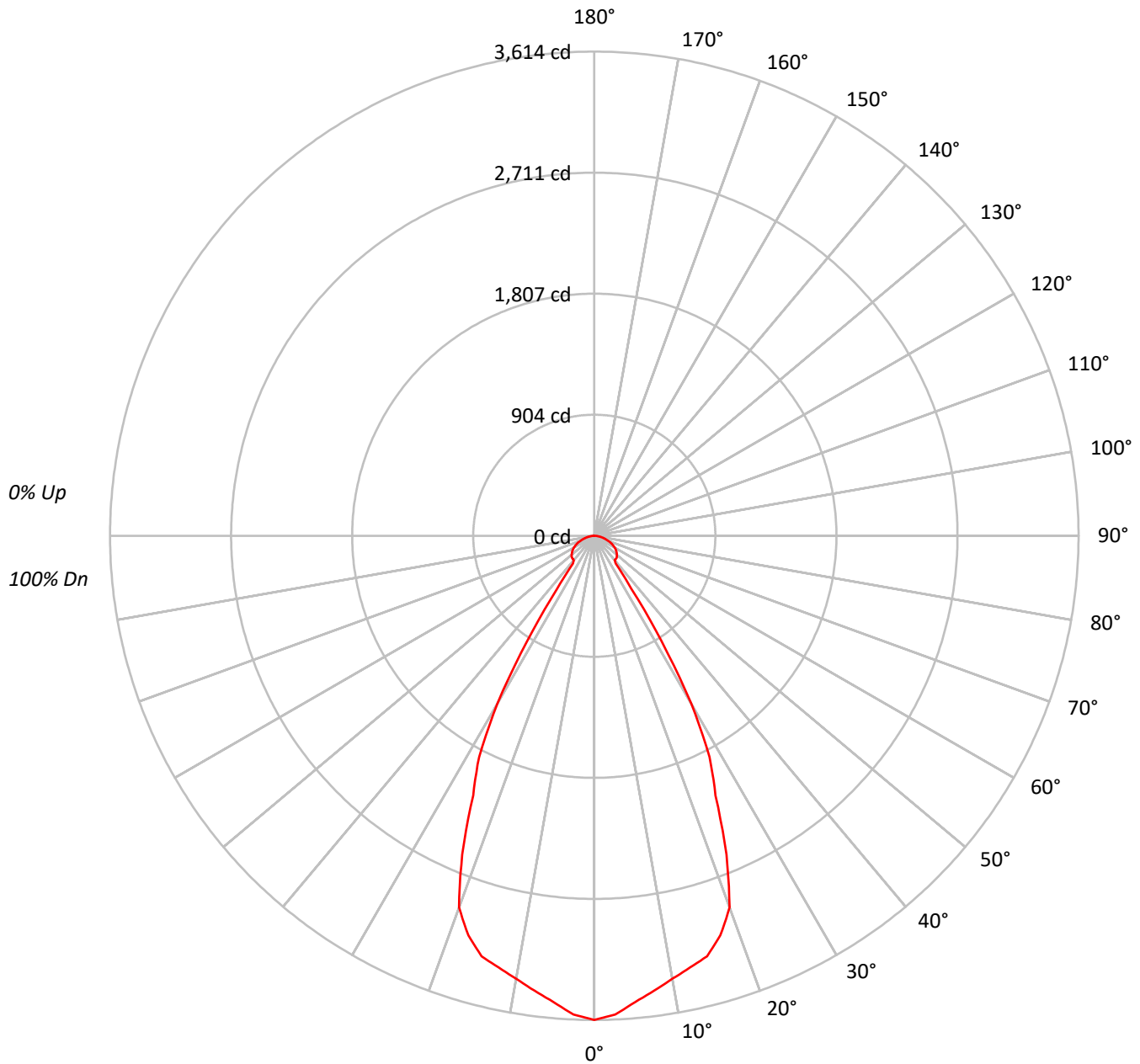
Input Watts (W): 47
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	112	109	106	103	110	107	104	102	103	101	99		99	97	96		95
2	106	100	95	91	103	98	94	90	95	91	88		92	89	86		89
3	100	92	87	82	98	91	86	81	88	84	80		86	82	79		83
4	94	86	80	75	92	85	79	74	82	77	73		80	76	73		78
5	89	80	74	69	87	79	73	69	77	72	68		75	71	67		74
6	85	75	68	64	83	74	68	64	73	67	63		71	66	63		70
7	80	70	64	59	79	70	64	59	68	63	59		67	62	59		66
8	77	66	60	56	75	66	60	56	65	59	55		64	59	55		63
9	73	63	57	52	72	62	56	52	61	56	52		60	55	52		60
10	70	59	53	49	69	59	53	49	58	53	49		57	52	49		57

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	394890
5°	383150
10°	372469
15°	367590
20°	343249
25°	257869
30°	182294
35°	64571
40°	33946
45°	36157
50°	37446
55°	38155
60°	38394
65°	37565
70°	35460
75°	32843
80°	29195
85°	23694

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 60°

Luminance: 38394 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	329.5	10.3
10°-20°	903.8	28.1
20°-30°	995.4	31.0
30°-40°	380.3	11.8
40°-50°	179.6	5.6
50°-60°	178.5	5.6
60°-70°	142.9	4.4
70°-80°	82.1	2.6
80°-90°	22.3	0.7
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°	2228.8	69.3
0°-40°	2609.1	81.2
0°-60°	2967.2	92.3
0°-90°	3214.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3214.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3614	
5°	3493	330
15°	3250	904
25°	2139	995
35°	484	380
45°	234	180
55°	200	179
65°	145	143
75°	78	82
85°	19	22
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3614.2
2.5°	3576.4
5°	3493.4
7.5°	3424.2
10°	3357.2
12.5°	3300.6
15°	3249.7
17.5°	3126.6
20°	2952.1
22.5°	2575.6
25°	2139.0
27.5°	1862.0
30°	1444.9
32.5°	933.3
35°	484.1
37.5°	261.5
40°	238.0
42.5°	236.3
45°	234.0
47.5°	228.9
50°	220.3
52.5°	210.6
55°	200.3
57.5°	188.8
60°	175.7
62.5°	160.8
65°	145.3
67.5°	128.2
70°	111.0
72.5°	93.8
75°	77.8
77.5°	61.2
80°	46.4
82.5°	32.6
85°	18.9
87.5°	7.4
90°	0.0



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— 0°-180°







(END OF REPORT)