

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: P749655

Luminaire Tested: LD4D50D010-EU4DR6540509027-4LBSQW1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P749655
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-59)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D50D010-EU4DR6540509027-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3149.8 lumens
Efficiency: N/A
Efficacy: 67.0 lumens/watt
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.92
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

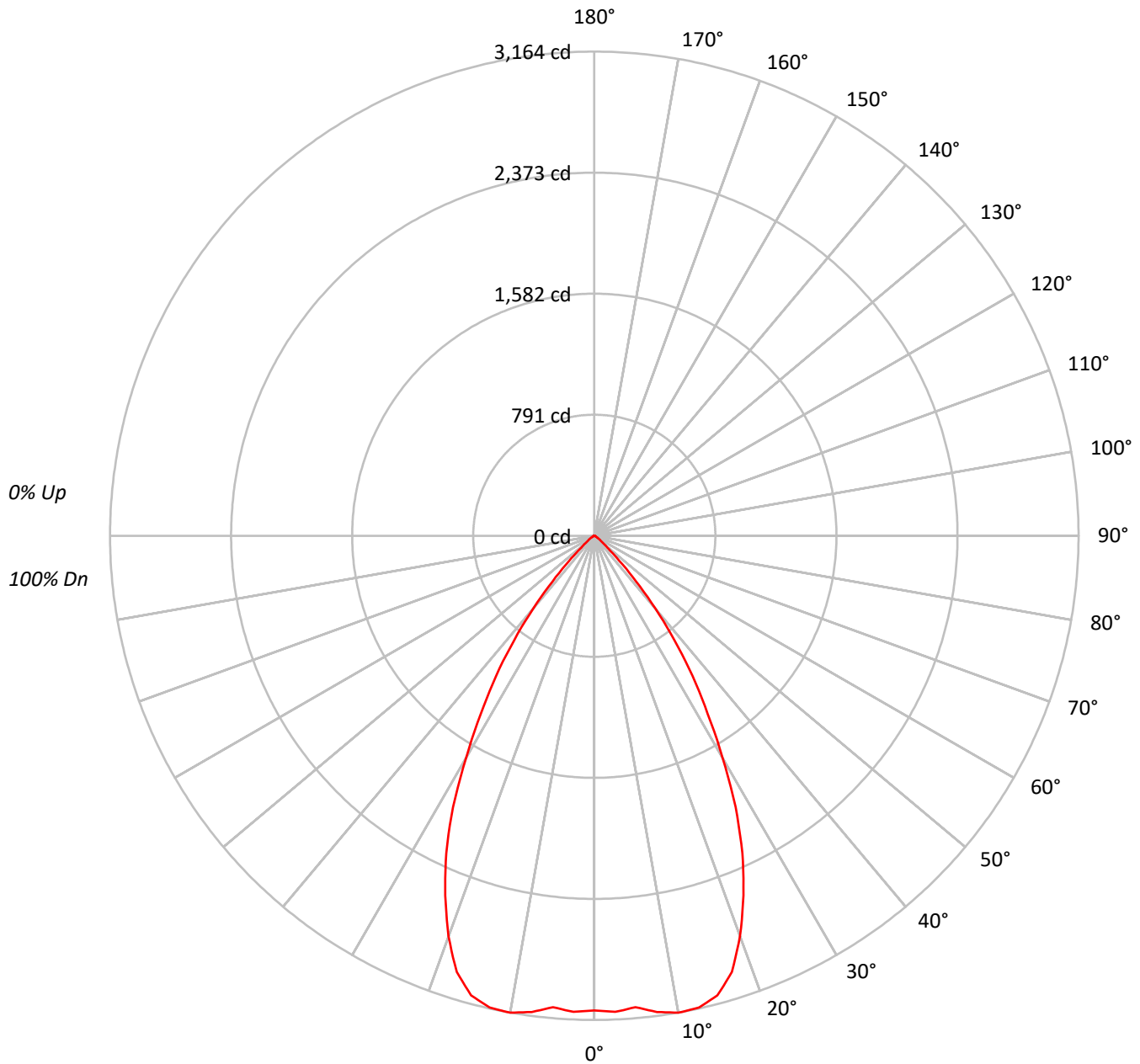
Input Watts (W): 47
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	113	111	108	106	111	108	106	104	104	103	101		101	99	98		97
2	108	103	99	95	106	101	97	94	98	95	92		95	92	90		92
3	102	96	91	87	100	94	90	86	92	88	85		89	86	83		87
4	97	89	84	79	95	88	83	79	86	82	78		84	80	77		82
5	92	83	78	73	90	83	77	73	81	76	72		79	75	72		77
6	87	78	72	68	86	77	72	68	76	71	67		74	70	67		73
7	83	73	67	63	81	73	67	63	71	66	62		70	66	62		69
8	79	69	63	59	77	68	63	59	67	62	58		66	62	58		65
9	75	65	59	55	74	65	59	55	64	58	55		63	58	55		62
10	71	61	56	52	70	61	55	52	60	55	51		59	55	51		59

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	338850
5°	339125
10°	351067
15°	351641
20°	323750
25°	275856
30°	211172
35°	149189
40°	88060
45°	35755
50°	12952
55°	7220
60°	4152
65°	2275
70°	2396
75°	1857
80°	1951
85°	1630

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 35755 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.6	9.5
10°-20°	861.4	27.3
20°-30°	1033.5	32.8
30°-40°	694.5	22.1
40°-50°	207.9	6.6
50°-60°	36.7	1.2
60°-70°	10.4	0.3
70°-80°	5.1	0.2
80°-90°	1.6	0.1
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°	2193.5	69.6
0°-40°	2888.1	91.7
0°-60°	3132.7	99.5
0°-90°	3149.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3149.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3101	
5°	3092	299
15°	3109	861
25°	2288	1034
35°	1118	695
45°	231	208
55°	38	37
65°	9	10
75°	4	5
85°	1	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3101.3
2.5°	3114.5
5°	3092.0
7.5°	3138.7
10°	3164.3
12.5°	3158.1
15°	3108.7
17.5°	2988.0
20°	2784.4
22.5°	2544.6
25°	2288.2
27.5°	1998.6
30°	1673.8
32.5°	1379.4
35°	1118.5
37.5°	860.7
40°	617.4
42.5°	403.2
45°	231.4
47.5°	122.5
50°	76.2
52.5°	52.9
55°	37.9
57.5°	27.3
60°	19.0
62.5°	12.3
65°	8.8
67.5°	7.9
70°	7.5
72.5°	5.7
75°	4.4
77.5°	4.0
80°	3.1
82.5°	2.2
85°	1.3
87.5°	0.9
90°	0.0



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— 0°-180°







(END OF REPORT)