

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: P749694

Luminaire Tested: LD4D50D010-EU4DR6540509040-4LBSQW1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P749694
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-EU4DR6540509040-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3432.5 lumens
Efficiency: N/A
Efficacy: 73.0 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

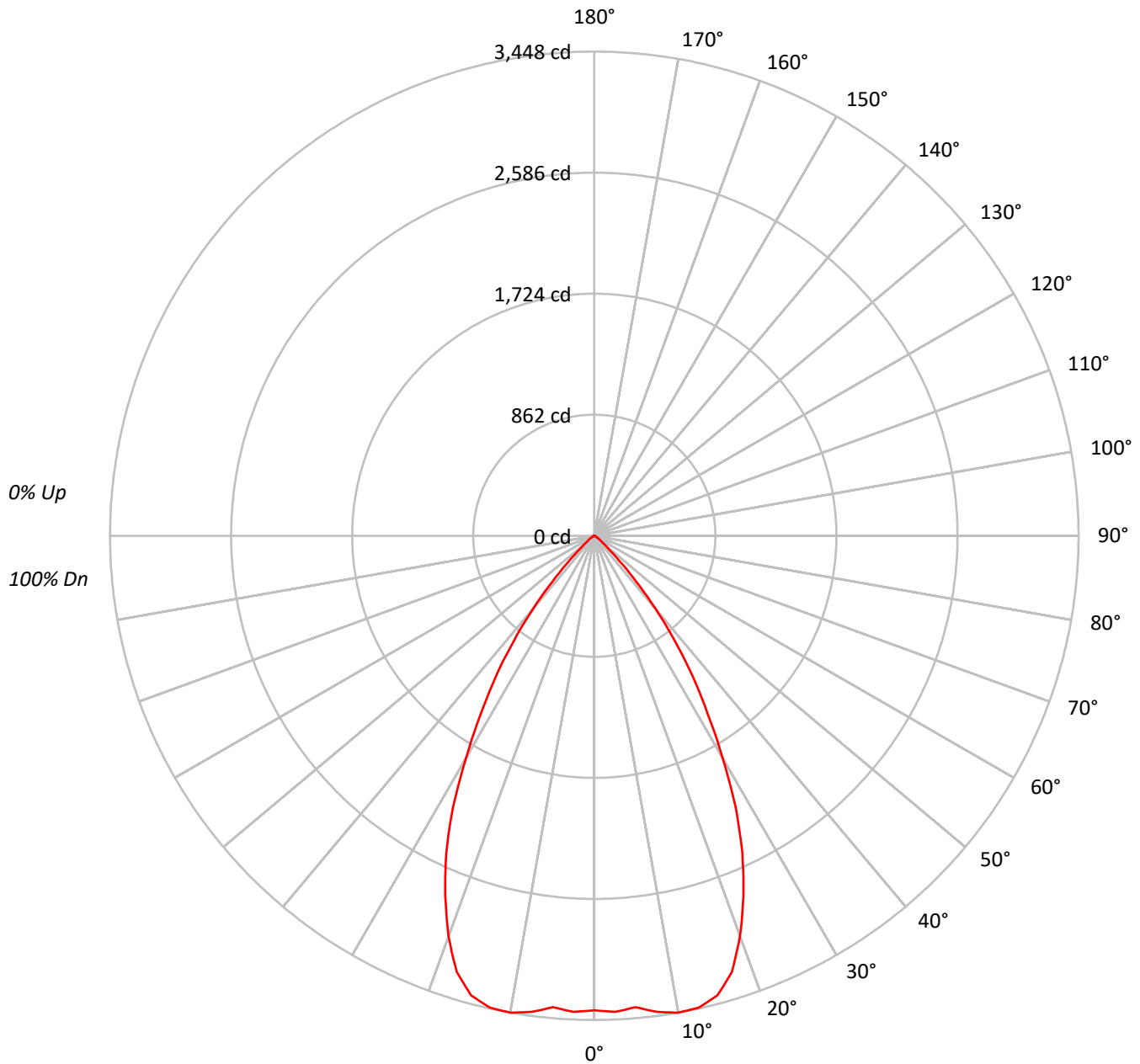
Input Watts (W): 47
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	369258
5°	369560
10°	382565
15°	383200
20°	352807
25°	300606
30°	230122
35°	162580
40°	95961
45°	38954
50°	14125
55°	7867
60°	4523
65°	2482
70°	2620
75°	2026
80°	2139
85°	1755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 38954 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	325.4	9.5
10°-20°	938.7	27.3
20°-30°	1126.3	32.8
30°-40°	756.9	22.1
40°-50°	226.6	6.6
50°-60°	40.0	1.2
60°-70°	11.4	0.3
70°-80°	5.6	0.2
80°-90°	1.8	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°	2390.4	69.6
0°-40°	3147.3	91.7
0°-60°	3413.8	99.5
0°-90°	3432.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3432.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3380	
5°	3370	325
15°	3388	939
25°	2494	1126
35°	1219	757
45°	252	227
55°	41	40
65°	10	11
75°	5	6
85°	1	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3379.6
2.5°	3394.0
5°	3369.5
7.5°	3420.4
10°	3448.2
12.5°	3441.5
15°	3387.7
17.5°	3256.1
20°	3034.3
22.5°	2773.0
25°	2493.5
27.5°	2178.0
30°	1824.0
32.5°	1503.2
35°	1218.9
37.5°	937.9
40°	672.8
42.5°	439.4
45°	252.1
47.5°	133.5
50°	83.1
52.5°	57.6
55°	41.3
57.5°	29.8
60°	20.7
62.5°	13.4
65°	9.6
67.5°	8.6
70°	8.2
72.5°	6.2
75°	4.8
77.5°	4.3
80°	3.4
82.5°	2.4
85°	1.4
87.5°	1.0
90°	0.0



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— 0°-180°







(END OF REPORT)