

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: P749564

Luminaire Tested: LD4D50D010-EU4DR6040509024-4LBSQW1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P749564
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-57)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D50D010-EU4DR6040509024-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3318.5 lumens
Efficiency: N/A
Efficacy: 70.6 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.83
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

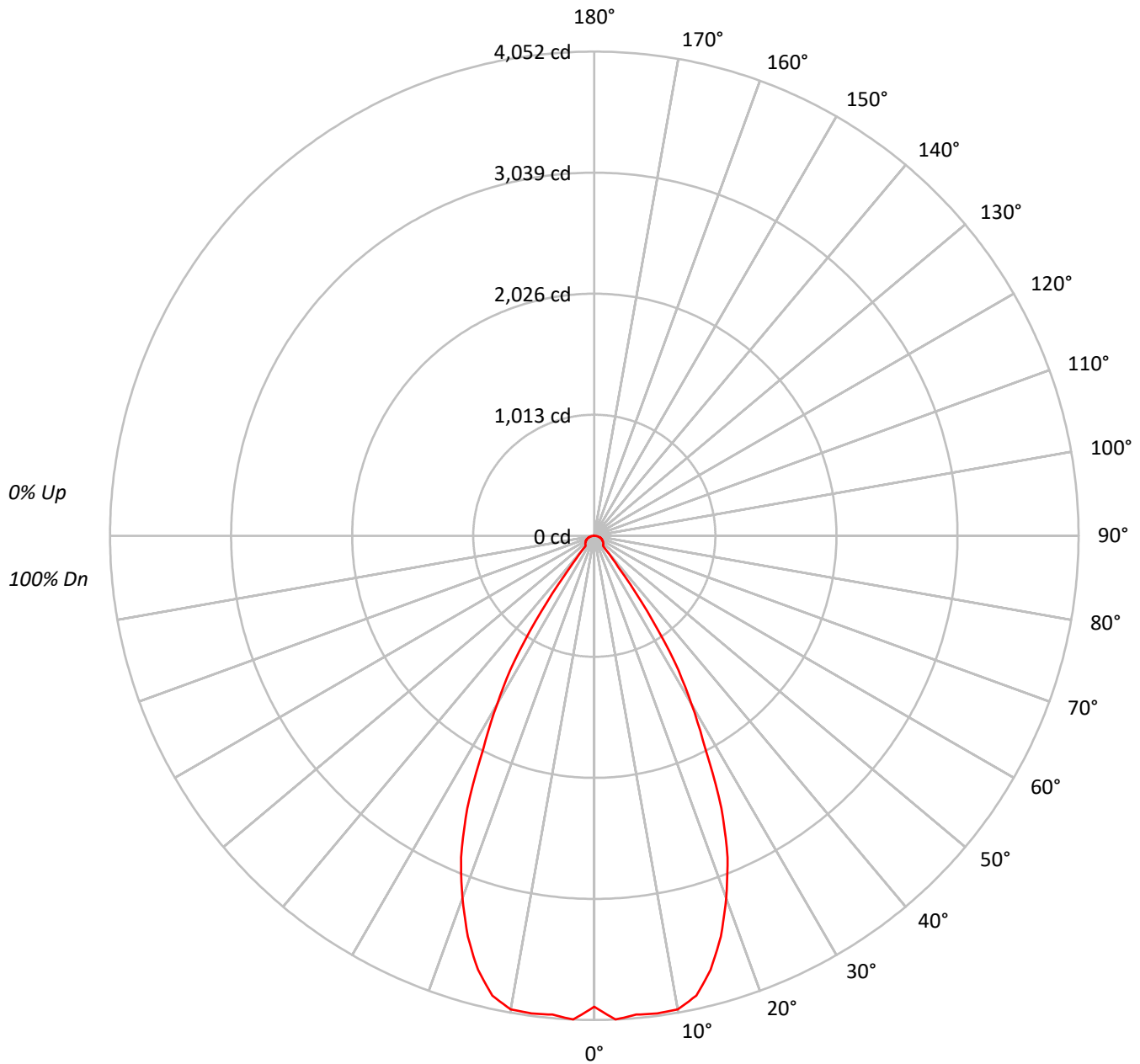
Input Watts (W): 47
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	110	108	105	111	108	106	104	104	102	100		100	99	97		97
2	107	102	98	95	105	101	97	94	97	94	92		94	92	90		92
3	102	96	90	86	100	94	89	86	91	88	84		89	86	83		87
4	97	89	84	80	95	88	83	79	86	82	78		84	80	77		82
5	92	84	78	74	91	83	78	74	81	77	73		80	76	72		78
6	88	79	73	69	87	78	73	69	77	72	68		75	71	68		74
7	84	75	69	65	83	74	68	64	73	68	64		72	67	64		71
8	80	71	65	61	79	70	65	61	69	64	60		68	64	60		67
9	77	67	61	57	75	67	61	57	66	61	57		65	60	57		64
10	73	64	58	54	72	63	58	54	62	58	54		62	57	54		61

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	430608
5°	441202
10°	446525
15°	425380
20°	375050
25°	303355
30°	205192
35°	102825
40°	16673
45°	16333
50°	16658
55°	16896
60°	17372
65°	17761
70°	18177
75°	18406
80°	17744
85°	14793

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 75°

Luminance: 18406 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	384.5	11.6
10°-20°	1040.2	31.3
20°-30°	1119.2	33.7
30°-40°	486.5	14.7
40°-50°	81.7	2.5
50°-60°	79.4	2.4
60°-70°	68.0	2.0
70°-80°	45.5	1.4
80°-90°	13.6	0.4
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°	2543.8	76.7
0°-40°	3030.3	91.3
0°-60°	3191.5	96.2
0°-90°	3318.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3318.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3941	
5°	4023	384
15°	3761	1040
25°	2516	1119
35°	771	486
45°	106	82
55°	89	79
65°	69	68
75°	44	45
85°	12	14
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3941.1
2.5°	4051.9
5°	4022.7
7.5°	4031.9
10°	4024.7
12.5°	3941.6
15°	3760.6
17.5°	3517.5
20°	3225.6
22.5°	2913.3
25°	2516.3
27.5°	2012.6
30°	1626.4
32.5°	1253.5
35°	770.9
37.5°	329.8
40°	116.9
42.5°	107.7
45°	105.7
47.5°	102.1
50°	98.0
52.5°	93.3
55°	88.7
57.5°	84.1
60°	79.5
62.5°	74.4
65°	68.7
67.5°	63.1
70°	56.9
72.5°	50.3
75°	43.6
77.5°	35.9
80°	28.2
82.5°	20.0
85°	11.8
87.5°	4.1
90°	0.0



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— 0°-180°







(END OF REPORT)