

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: P749577

Luminaire Tested: LD4D50D010-EU4DR6040509027-4LBSQW1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P749577
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-EU4DR6040509027-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3759.2 lumens
Efficiency: N/A
Efficacy: 80.0 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

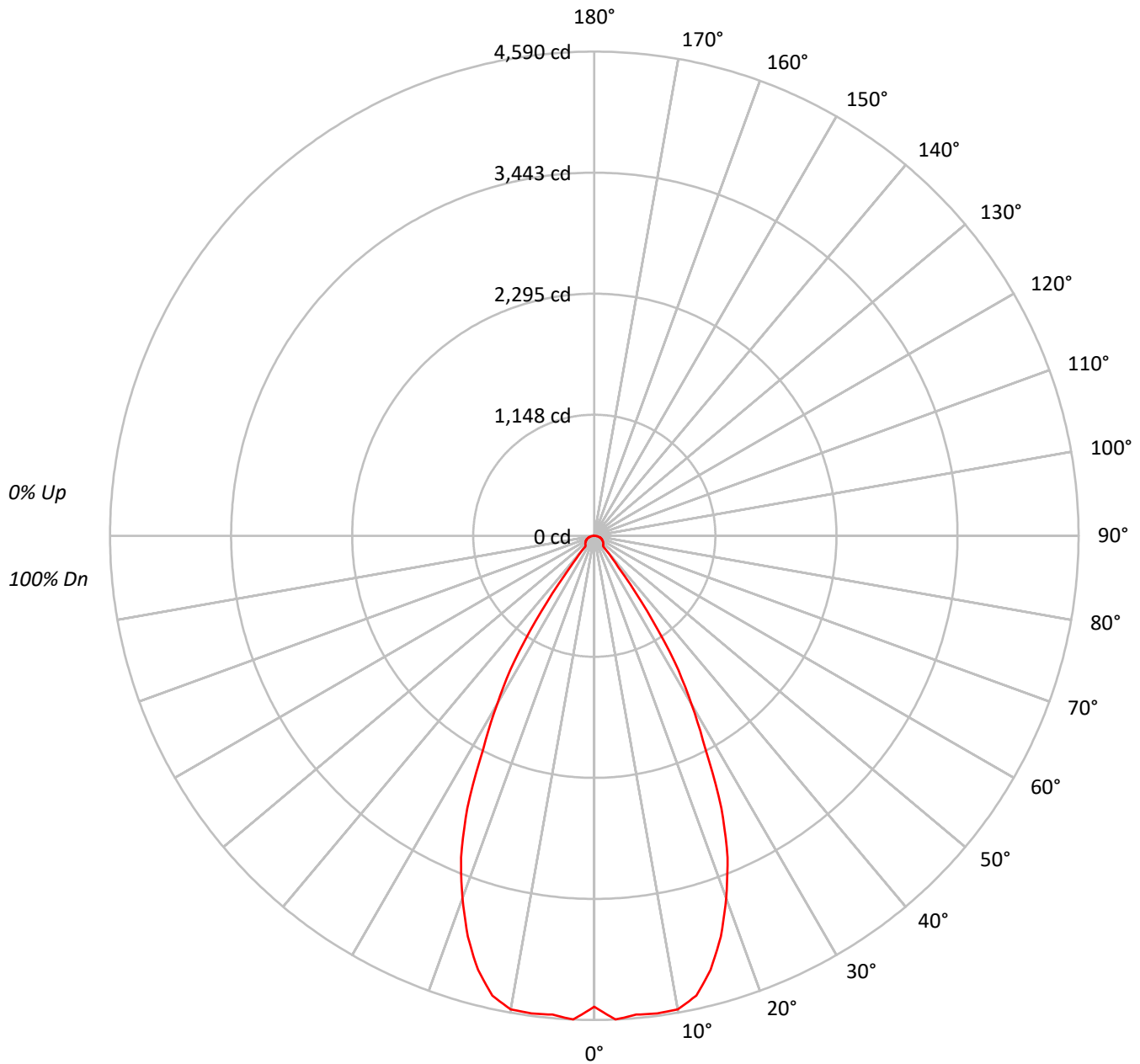
Input Watts (W): 47
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93		
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86		
3	102	96	90	86	100	94	89	86	91	88	84	89	86	83	87	84	82	80		
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75		
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	70		
6	88	79	73	69	87	78	73	69	77	72	68	75	71	68	74	70	67	66		
7	84	75	69	65	83	74	68	64	73	68	64	72	67	64	71	67	63	62		
8	80	71	65	61	79	70	65	61	69	64	60	68	64	60	67	63	60	59		
9	77	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55		
10	73	64	58	54	72	63	58	54	62	58	54	62	57	54	61	57	54	53		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	487784
5°	499781
10°	505815
15°	481859
20°	424849
25°	343633
30°	232444
35°	116470
40°	18898
45°	18496
50°	18868
55°	19144
60°	19689
65°	20140
70°	20605
75°	20854
80°	20135
85°	16799

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 75°

Luminance: 20854 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	435.5	11.6
10°-20°	1178.3	31.3
20°-30°	1267.8	33.7
30°-40°	551.1	14.7
40°-50°	92.6	2.5
50°-60°	90.0	2.4
60°-70°	77.0	2.0
70°-80°	51.5	1.4
80°-90°	15.4	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°	2881.6	76.7
0°-40°	3432.7	91.3
0°-60°	3615.2	96.2
0°-90°	3759.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3759.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4464	
5°	4557	436
15°	4260	1178
25°	2850	1268
35°	873	551
45°	120	93
55°	100	90
65°	78	77
75°	49	52
85°	13	15
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4464.4
2.5°	4589.9
5°	4556.8
7.5°	4567.3
10°	4559.1
12.5°	4465.0
15°	4259.9
17.5°	3984.5
20°	3653.9
22.5°	3300.1
25°	2850.4
27.5°	2279.9
30°	1842.4
32.5°	1420.0
35°	873.2
37.5°	373.6
40°	132.5
42.5°	122.0
45°	119.7
47.5°	115.6
50°	111.0
52.5°	105.7
55°	100.5
57.5°	95.3
60°	90.1
62.5°	84.2
65°	77.9
67.5°	71.5
70°	64.5
72.5°	56.9
75°	49.4
77.5°	40.7
80°	32.0
82.5°	22.7
85°	13.4
87.5°	4.6
90°	0.0



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— 0°-180°







(END OF REPORT)