

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: P749591

Luminaire Tested: LD4D50D010-EU4DR6040509030-4LBSQW1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P749591
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-EU4DR6040509030-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4362.5 lumens
Efficiency: N/A
Efficacy: 92.8 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

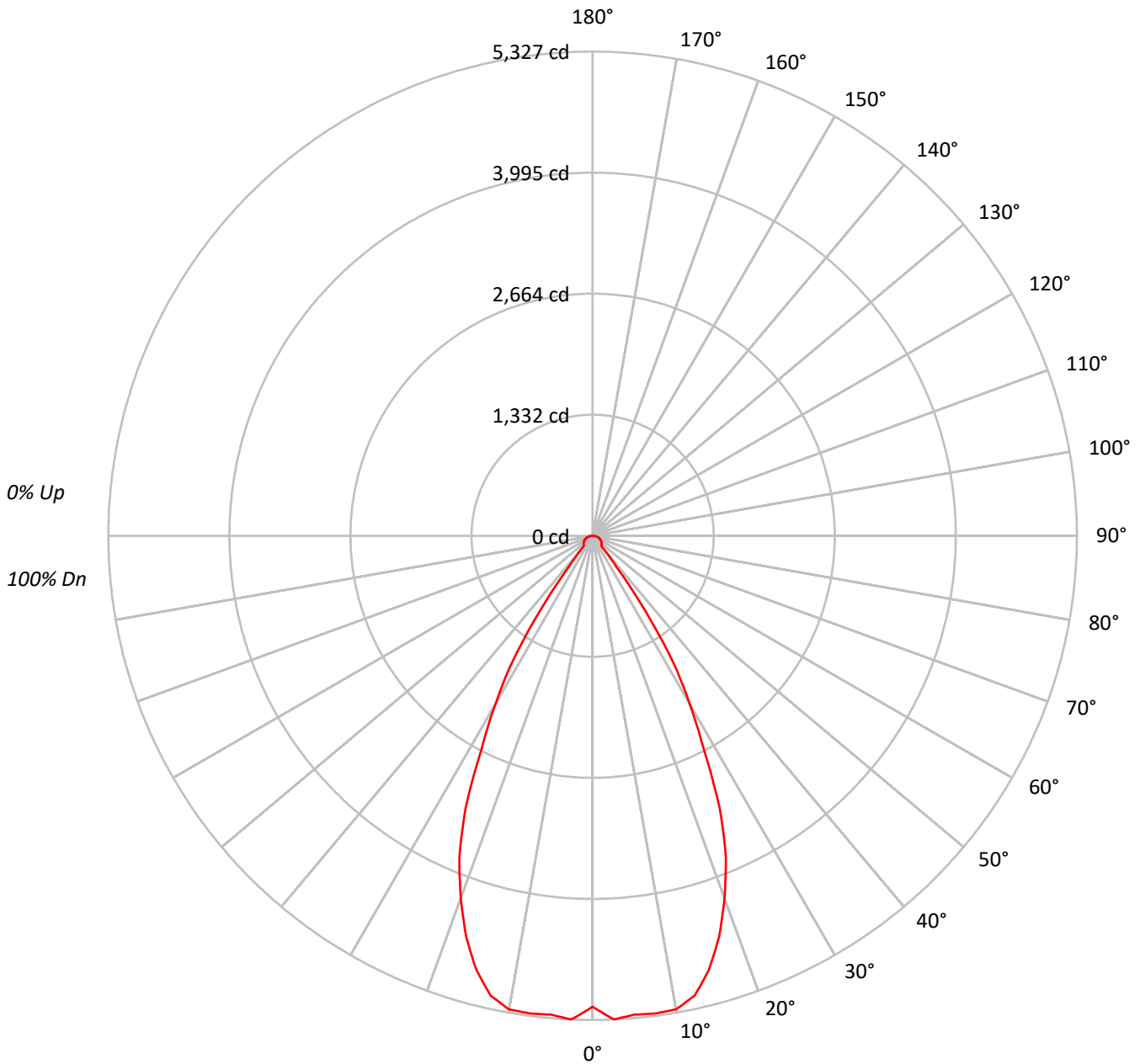
Input Watts (W): 47
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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		0	
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°	566080
5°	580000
10°	587006
15°	559207
20°	493043
25°	398787
30°	269750
35°	135170
40°	21922
45°	21463
50°	21893
55°	22211
60°	22835
65°	23371
70°	23895
75°	24189
80°	23344
85°	19431

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 75°
 Luminance: 24189 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	505.4	11.6
10°-20°	1367.5	31.3
20°-30°	1471.3	33.7
30°-40°	639.5	14.7
40°-50°	107.4	2.5
50°-60°	104.4	2.4
60°-70°	89.3	2.0
70°-80°	59.8	1.4
80°-90°	17.9	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°	3344.1	76.7
0°-40°	3983.7	91.3
0°-60°	4195.5	96.2
0°-90°	4362.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4362.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5181	
5°	5288	505
15°	4944	1367
25°	3308	1471
35°	1013	640
45°	139	107
55°	117	104
65°	90	89
75°	57	60
85°	16	18
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5181.0
2.5°	5326.7
5°	5288.2
7.5°	5300.4
10°	5290.9
12.5°	5181.7
15°	4943.7
17.5°	4624.1
20°	4240.4
22.5°	3829.8
25°	3307.9
27.5°	2645.8
30°	2138.1
32.5°	1647.9
35°	1013.4
37.5°	433.6
40°	153.7
42.5°	141.6
45°	138.9
47.5°	134.2
50°	128.8
52.5°	122.7
55°	116.6
57.5°	110.6
60°	104.5
62.5°	97.8
65°	90.4
67.5°	82.9
70°	74.8
72.5°	66.1
75°	57.3
77.5°	47.2
80°	37.1
82.5°	26.3
85°	15.5
87.5°	5.4
90°	0.0

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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