

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: P749721

Luminaire Tested: LD4D50D010-EU4DR7040509024-4LBSQW1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P749721
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-73)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D50D010-EU4DR7040509024-4LBSQW1MW
Description: 4 INCH SQUARE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3443.7 lumens
Efficiency: N/A
Efficacy: 73.3 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.82
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

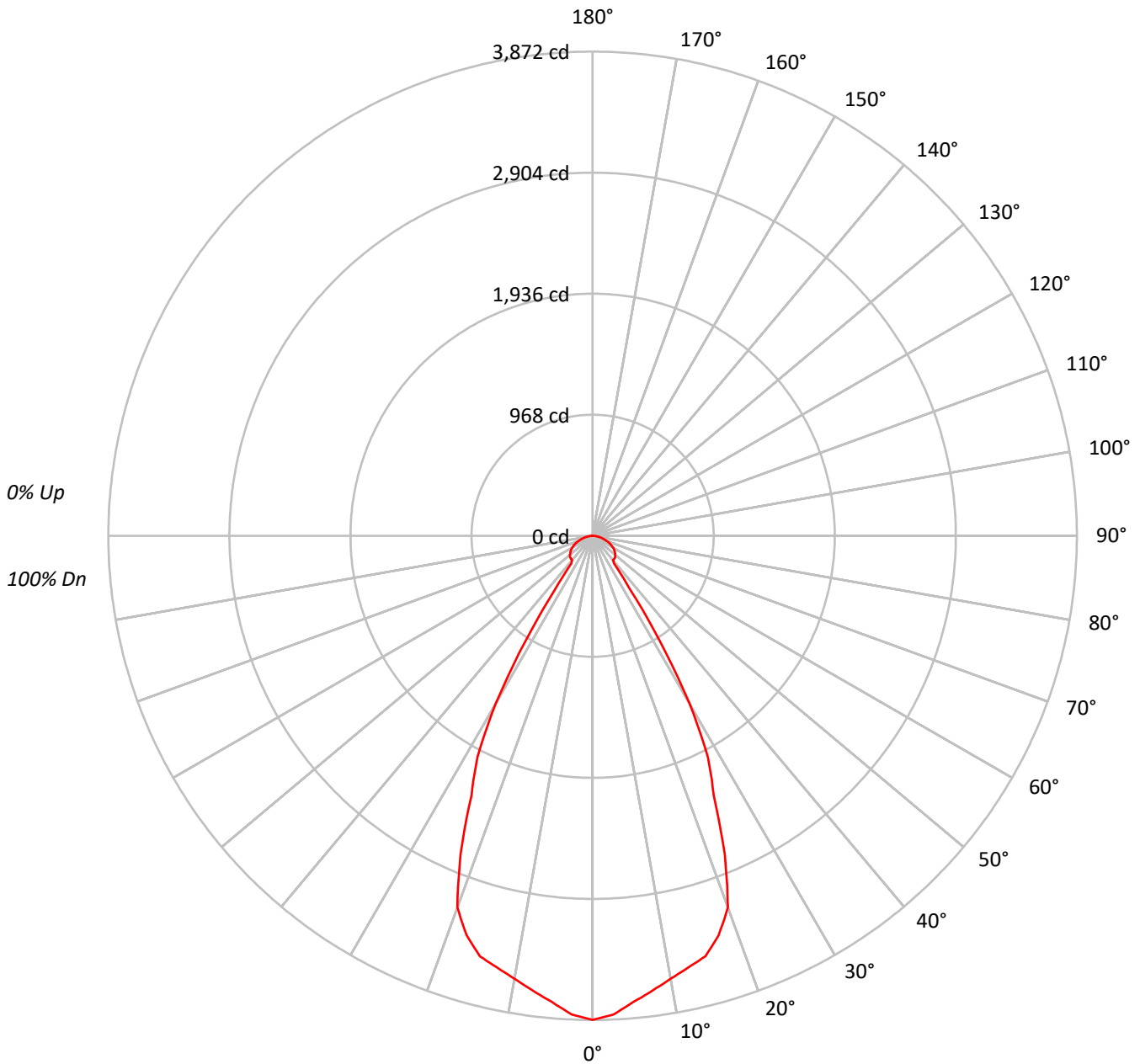
Input Watts (W): 47
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83			
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76			
4	94	86	80	75	92	85	79	74	82	77	73	80	76	73	78	75	72	70			
5	89	80	74	69	87	79	73	69	77	72	68	75	71	67	74	70	67	65			
6	85	75	68	64	83	74	68	64	73	67	63	71	66	63	70	66	62	61			
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57			
8	77	66	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53			
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50			
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	48			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	423014
5°	410448
10°	399007
15°	393776
20°	367701
25°	276242
30°	195276
35°	69172
40°	36371
45°	38738
50°	40115
55°	40860
60°	41126
65°	40254
70°	37983
75°	35207
80°	31272
85°	25323

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 41138 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	353.0	10.3
10°-20°	968.2	28.1
20°-30°	1066.4	31.0
30°-40°	407.4	11.8
40°-50°	192.4	5.6
50°-60°	191.3	5.6
60°-70°	153.1	4.4
70°-80°	88.0	2.6
80°-90°	23.9	0.7
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°	2387.5	69.3
0°-40°	2795.0	81.2
0°-60°	3178.6	92.3
0°-90°	3443.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3443.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3872	
5°	3742	353
15°	3481	968
25°	2291	1066
35°	519	407
45°	251	192
55°	214	191
65°	156	153
75°	83	88
85°	20	24
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3871.6
2.5°	3831.2
5°	3742.3
7.5°	3668.1
10°	3596.4
12.5°	3535.7
15°	3481.2
17.5°	3349.4
20°	3162.4
22.5°	2759.1
25°	2291.4
27.5°	1994.7
30°	1547.8
32.5°	999.8
35°	518.6
37.5°	280.1
40°	255.0
42.5°	253.2
45°	250.7
47.5°	245.2
50°	236.0
52.5°	225.6
55°	214.5
57.5°	202.3
60°	188.2
62.5°	172.3
65°	155.7
67.5°	137.3
70°	118.9
72.5°	100.5
75°	83.4
77.5°	65.6
80°	49.7
82.5°	34.9
85°	20.2
87.5°	8.0
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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