

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: P749604

Luminaire Tested: LD4D50D010-EU4DR6040509035-4LBSQW1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P749604
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-EU4DR6040509035-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4408.5 lumens
Efficiency: N/A
Efficacy: 93.8 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

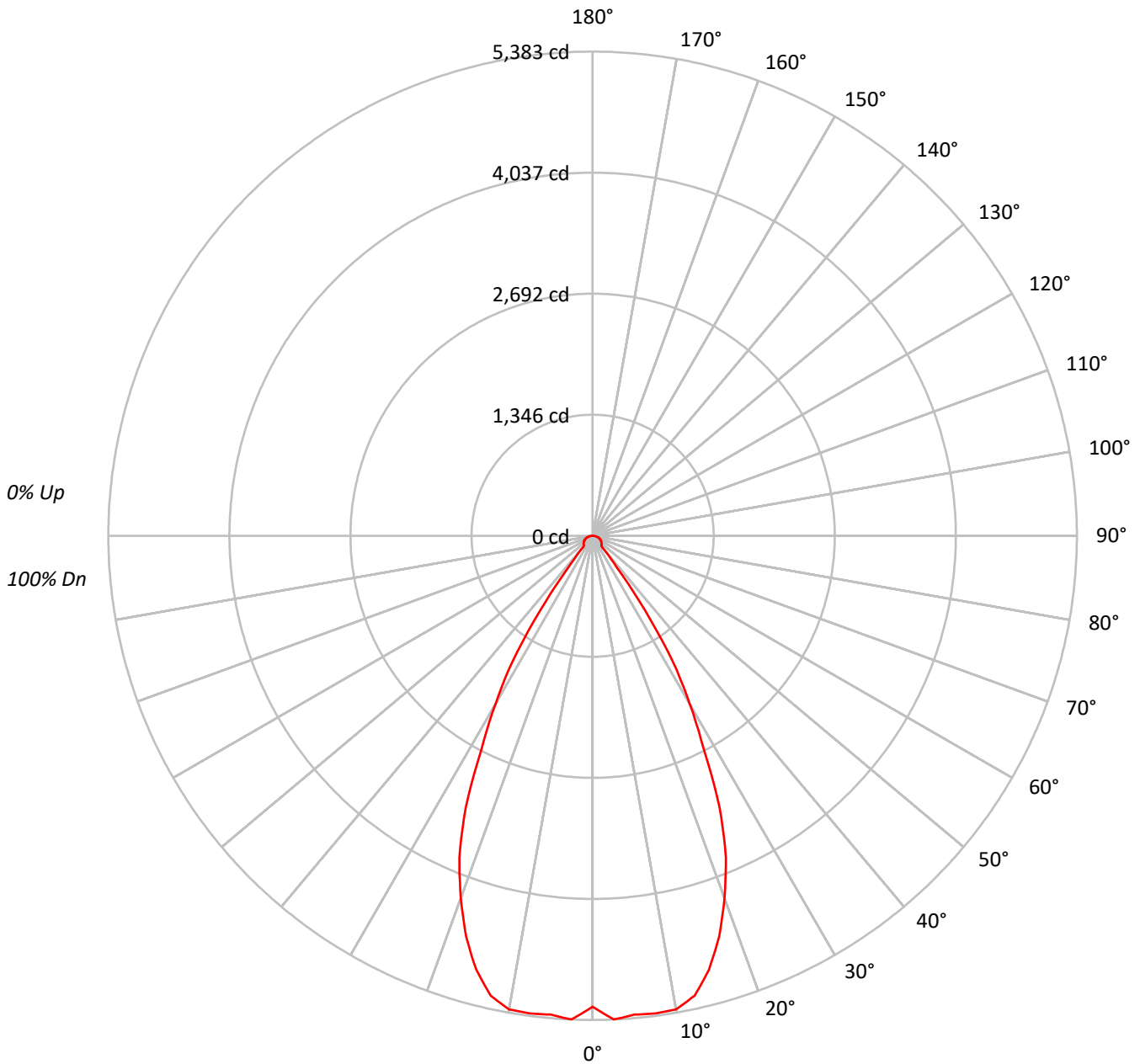
Input Watts (W): 47
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	572046
5°	586109
10°	593196
15°	565100
20°	498241
25°	402994
30°	272589
35°	136597
40°	22165
45°	21694
50°	22114
55°	22459
60°	23076
65°	23604
70°	24151
75°	24443
80°	23595
85°	19682

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 75°
 Luminance: 24443 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	510.7	11.6
10°-20°	1381.9	31.3
20°-30°	1486.8	33.7
30°-40°	646.3	14.7
40°-50°	108.6	2.5
50°-60°	105.5	2.4
60°-70°	90.3	2.0
70°-80°	60.4	1.4
80°-90°	18.1	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°	3379.4	76.7
0°-40°	4025.6	91.3
0°-60°	4239.7	96.2
0°-90°	4408.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4408.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5236	
5°	5344	511
15°	4996	1382
25°	3343	1487
35°	1024	646
45°	140	109
55°	118	106
65°	91	90
75°	58	60
85°	16	18
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5235.6
2.5°	5382.8
5°	5343.9
7.5°	5356.2
10°	5346.7
12.5°	5236.3
15°	4995.8
17.5°	4672.8
20°	4285.1
22.5°	3870.1
25°	3342.8
27.5°	2673.7
30°	2160.6
32.5°	1665.3
35°	1024.1
37.5°	438.1
40°	155.4
42.5°	143.1
45°	140.4
47.5°	135.6
50°	130.1
52.5°	124.0
55°	117.9
57.5°	111.7
60°	105.6
62.5°	98.8
65°	91.3
67.5°	83.8
70°	75.6
72.5°	66.8
75°	57.9
77.5°	47.7
80°	37.5
82.5°	26.6
85°	15.7
87.5°	5.5
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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