

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: P749760

Luminaire Tested: LD4D50D010-EU4DR7040509035-4LBSQW1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P749760
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-EU4DR7040509035-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4061.1 lumens
Efficiency: N/A
Efficacy: 86.4 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

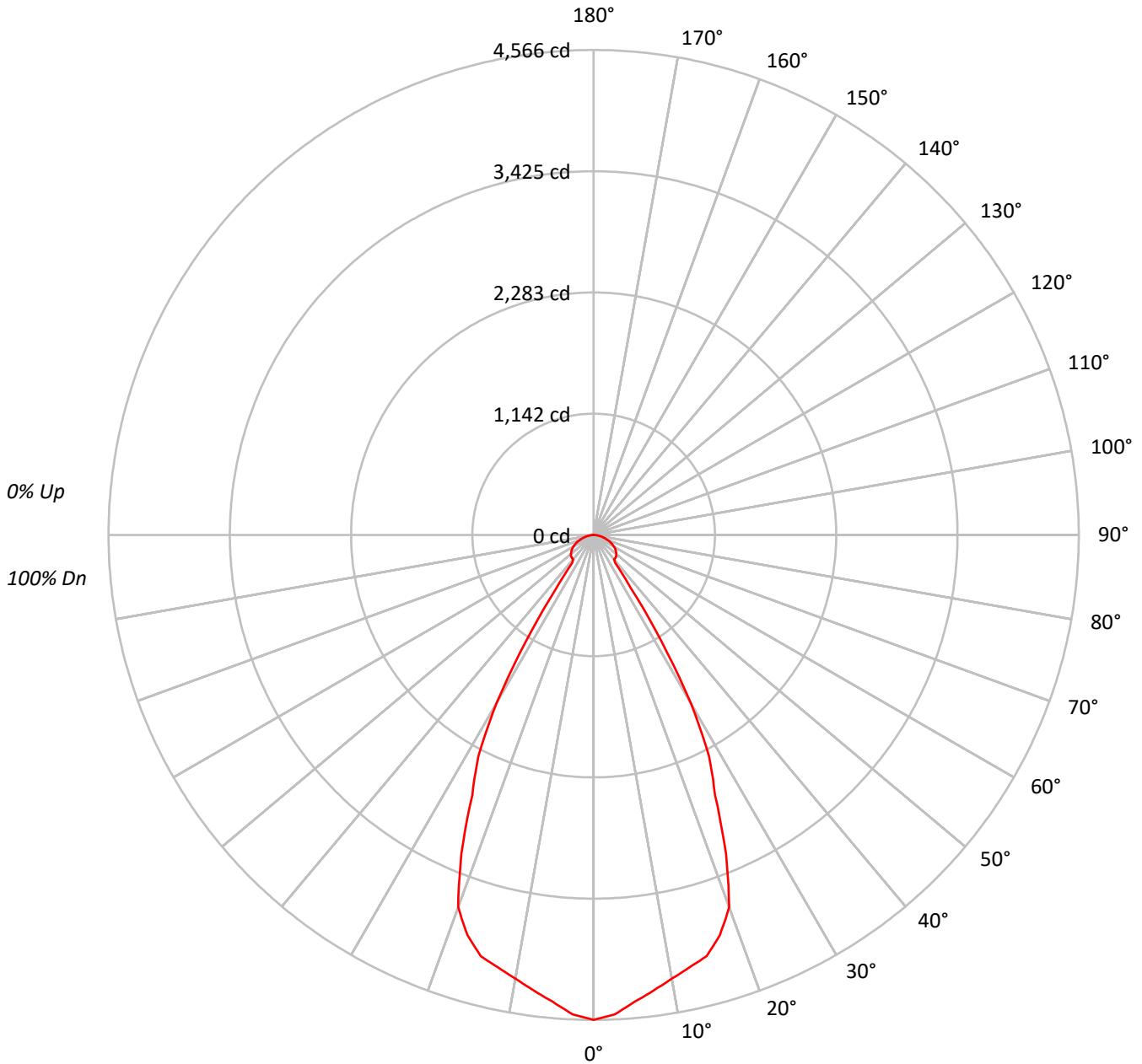
Input Watts (W): 47
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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
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°	498874
5°	484042
10°	470556
15°	464383
20°	433640
25°	325766
30°	230286
35°	81577
40°	42889
45°	45691
50°	47305
55°	48194
60°	48490
65°	47467
70°	44788
75°	41497
80°	36872
85°	29962

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 48520 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	416.3	10.3
10°-20°	1141.8	28.1
20°-30°	1257.5	31.0
30°-40°	480.5	11.8
40°-50°	226.9	5.6
50°-60°	225.5	5.6
60°-70°	180.5	4.4
70°-80°	103.8	2.6
80°-90°	28.2	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°	2815.6	69.3
0°-40°	3296.1	81.2
0°-60°	3748.5	92.3
0°-90°	4061.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4061.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4566	
5°	4413	416
15°	4105	1142
25°	2702	1258
35°	612	480
45°	296	227
55°	253	226
65°	184	181
75°	98	104
85°	24	28
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4565.9
2.5°	4518.1
5°	4413.3
7.5°	4325.9
10°	4241.3
12.5°	4169.7
15°	4105.4
17.5°	3949.9
20°	3729.5
22.5°	3253.8
25°	2702.2
27.5°	2352.3
30°	1825.3
32.5°	1179.1
35°	611.6
37.5°	330.4
40°	300.7
42.5°	298.6
45°	295.7
47.5°	289.2
50°	278.3
52.5°	266.0
55°	253.0
57.5°	238.6
60°	221.9
62.5°	203.1
65°	183.6
67.5°	161.9
70°	140.2
72.5°	118.6
75°	98.3
77.5°	77.4
80°	58.6
82.5°	41.2
85°	23.9
87.5°	9.4
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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