

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



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: P749746

Luminaire Tested: LD4D50D010-EU4DR7040509030-4LBSQW1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P749746
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-EU4DR7040509030-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3017.5 lumens
Efficiency: N/A
Efficacy: 64.2 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

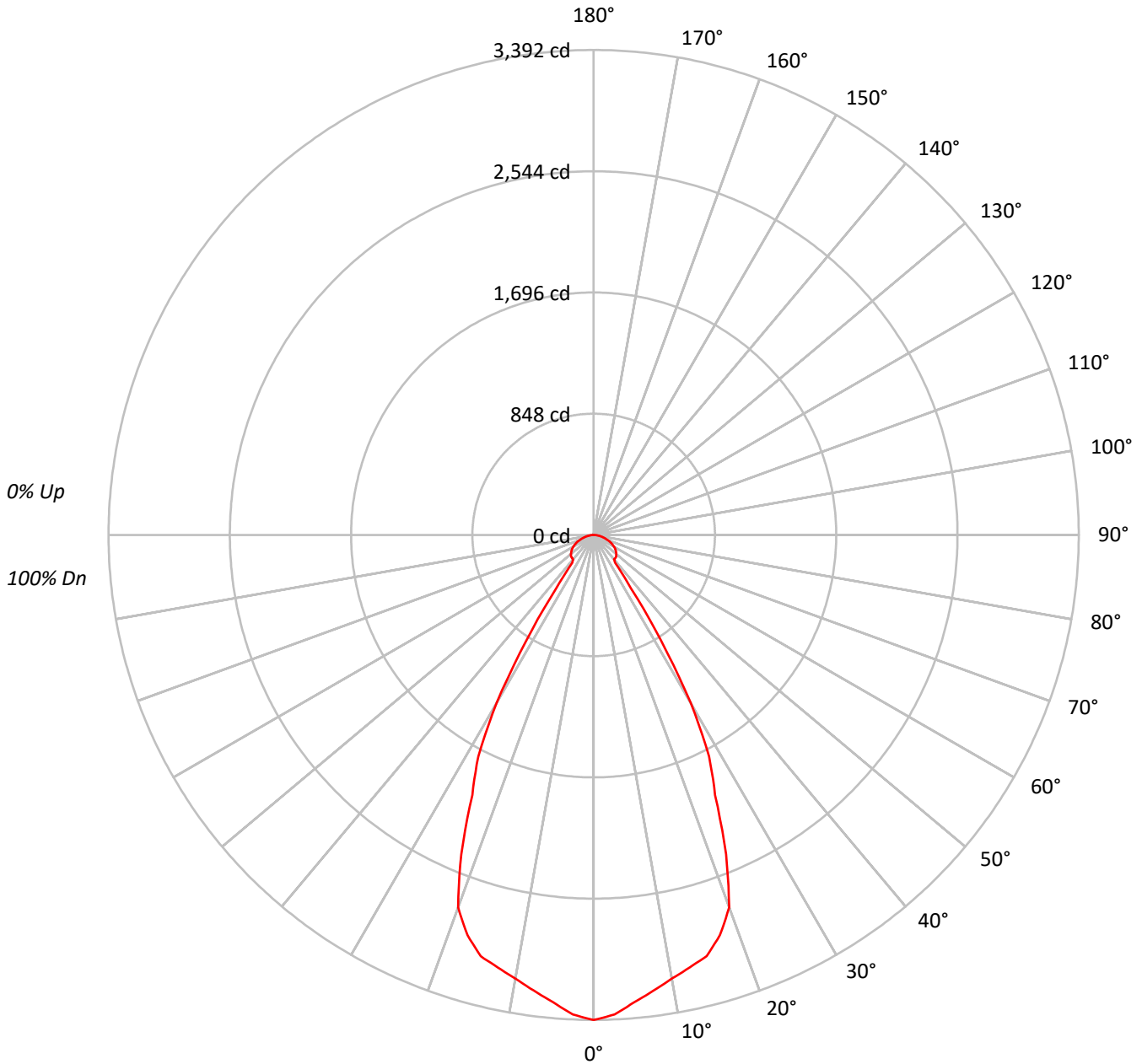
Input Watts (W): 47
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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°	370667
5°	359656
10°	349625
15°	345046
20°	322204
25°	242052
30°	171115
35°	60609
40°	31863
45°	33948
50°	35152
55°	35812
60°	36034
65°	35264
70°	33287
75°	30817
80°	27371
85°	22189

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 36054 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.3	10.3
10°-20°	848.4	28.1
20°-30°	934.4	31.0
30°-40°	357.0	11.8
40°-50°	168.6	5.6
50°-60°	167.6	5.6
60°-70°	134.2	4.4
70°-80°	77.1	2.6
80°-90°	21.0	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°	2092.1	69.3
0°-40°	2449.1	81.2
0°-60°	2785.3	92.3
0°-90°	3017.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3017.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3392	
5°	3279	309
15°	3050	848
25°	2008	934
35°	454	357
45°	220	169
55°	188	168
65°	136	134
75°	73	77
85°	18	21
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3392.5
2.5°	3357.1
5°	3279.2
7.5°	3214.2
10°	3151.3
12.5°	3098.2
15°	3050.4
17.5°	2934.9
20°	2771.1
22.5°	2417.6
25°	2007.8
27.5°	1747.8
30°	1356.3
32.5°	876.1
35°	454.4
37.5°	245.5
40°	223.4
42.5°	221.8
45°	219.7
47.5°	214.9
50°	206.8
52.5°	197.7
55°	188.0
57.5°	177.3
60°	164.9
62.5°	150.9
65°	136.4
67.5°	120.3
70°	104.2
72.5°	88.1
75°	73.0
77.5°	57.5
80°	43.5
82.5°	30.6
85°	17.7
87.5°	7.0
90°	0.0

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Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)