

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: P748954

Luminaire Tested: LD4D45BD010-EU4DR7040509027-4LBSQW1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P748954
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: LD4D45BD010-EU4DR7040509027-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3321.5 lumens
Efficiency: N/A
Efficacy: 85.8 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

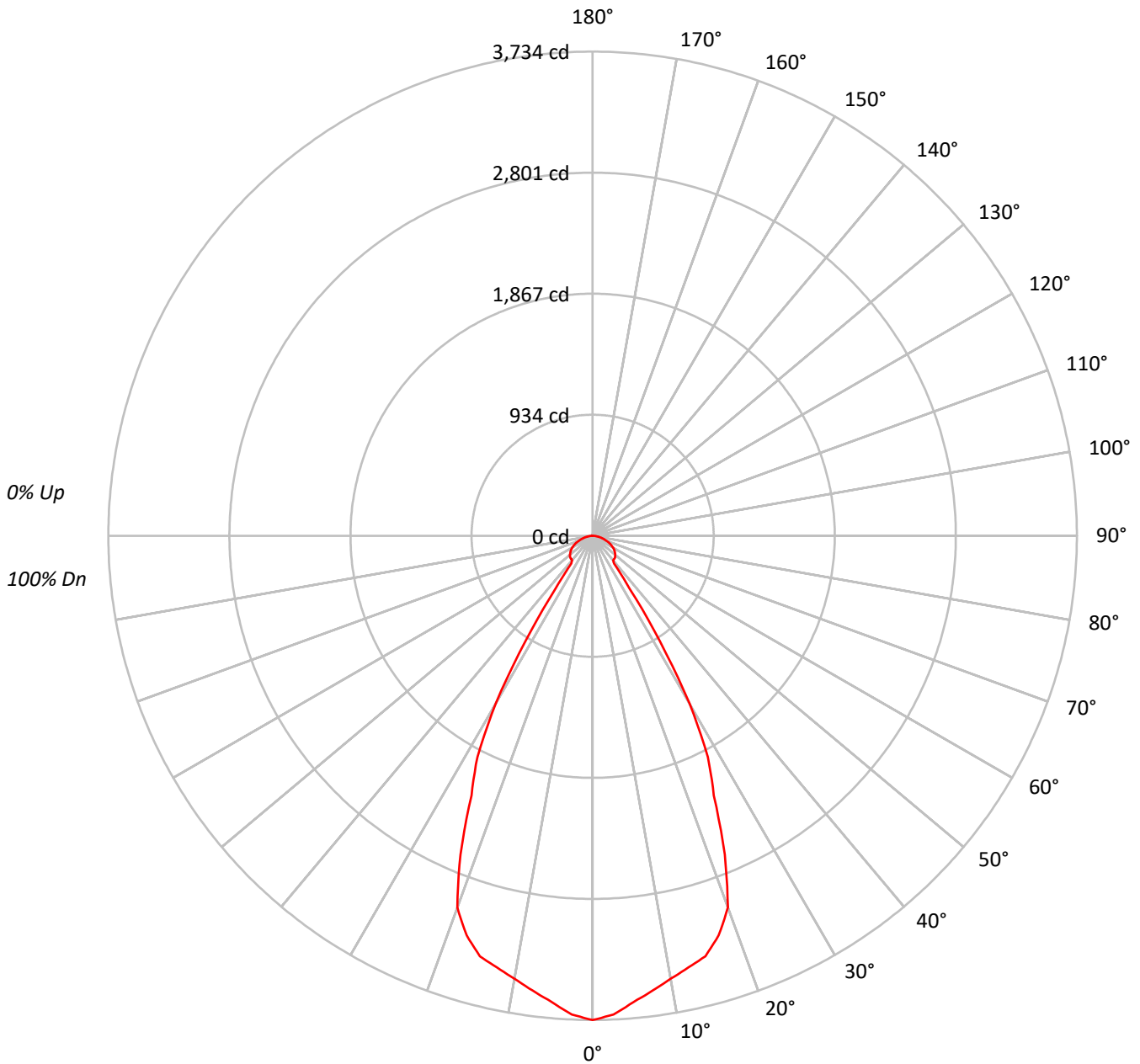
Input Watts (W): 38.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	408023
5°	395905
10°	384862
15°	379818
20°	354667
25°	266441
30°	188349
35°	66718
40°	35087
45°	37362
50°	38687
55°	39412
60°	39662
65°	38832
70°	36642
75°	33941
80°	30139
85°	24446

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 39674 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	340.5	10.3
10°-20°	933.9	28.1
20°-30°	1028.6	31.0
30°-40°	393.0	11.8
40°-50°	185.6	5.6
50°-60°	184.5	5.6
60°-70°	147.7	4.4
70°-80°	84.9	2.6
80°-90°	23.1	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°	2302.9	69.3
0°-40°	2695.9	81.2
0°-60°	3065.9	92.3
0°-90°	3321.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3321.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3734	
5°	3610	340
15°	3358	934
25°	2210	1029
35°	500	393
45°	242	186
55°	207	184
65°	150	148
75°	80	85
85°	20	23
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3734.4
2.5°	3695.4
5°	3609.7
7.5°	3538.1
10°	3468.9
12.5°	3410.4
15°	3357.8
17.5°	3230.7
20°	3050.3
22.5°	2661.3
25°	2210.1
27.5°	1924.0
30°	1492.9
32.5°	964.3
35°	500.2
37.5°	270.2
40°	246.0
42.5°	244.2
45°	241.8
47.5°	236.5
50°	227.6
52.5°	217.6
55°	206.9
57.5°	195.1
60°	181.5
62.5°	166.1
65°	150.2
67.5°	132.4
70°	114.7
72.5°	97.0
75°	80.4
77.5°	63.3
80°	47.9
82.5°	33.7
85°	19.5
87.5°	7.7
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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