

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: P748876

Luminaire Tested: LD4D45BD010-EU4DR6540509027-4LBSQW1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P748876
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-59)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D45BD010-EU4DR6540509027-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3153.1 lumens
Efficiency: N/A
Efficacy: 81.5 lumens/watt
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.92
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

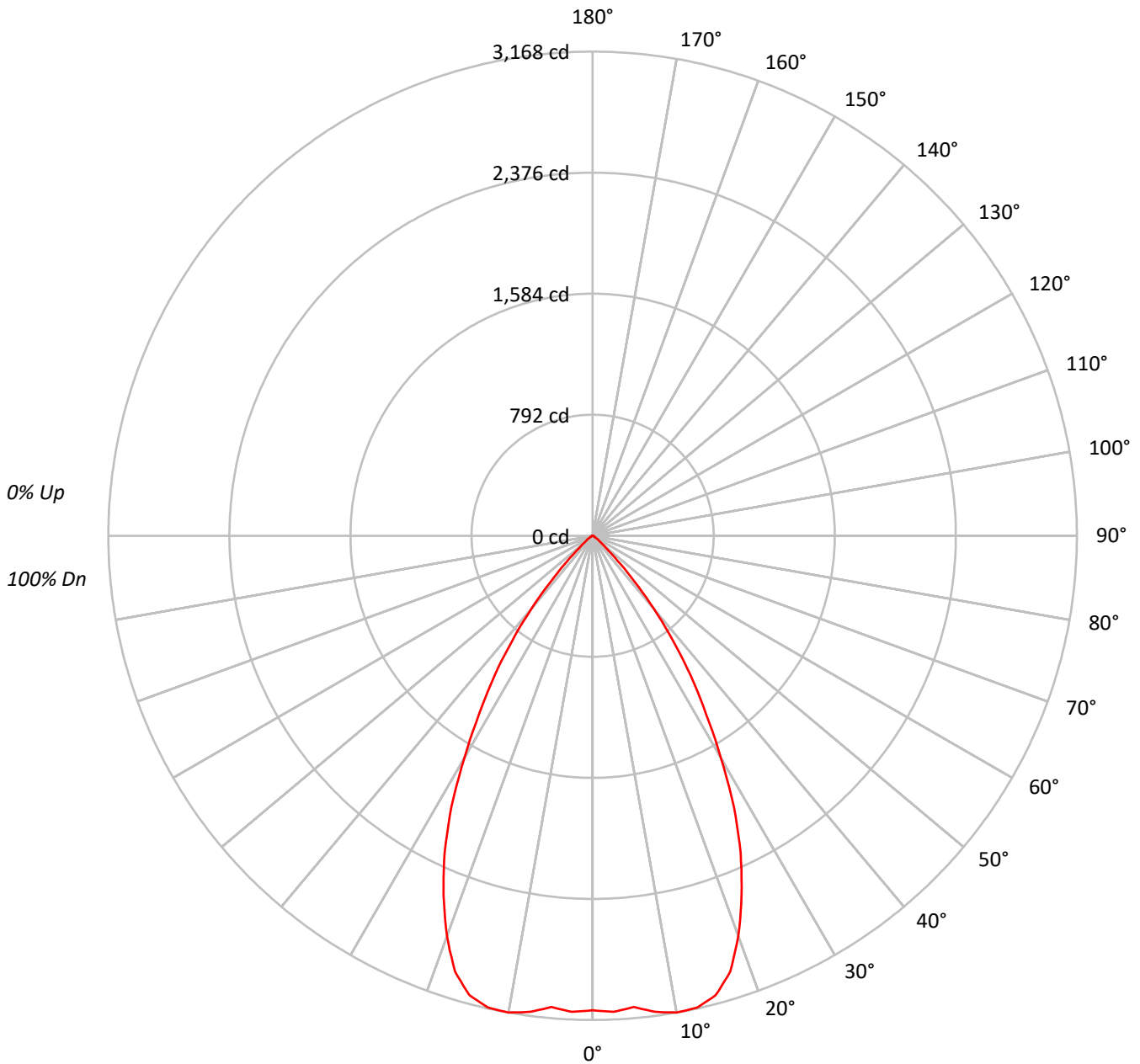
Input Watts (W): 38.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93																			
2	108	103	99	95	106	101	97	94	98	95	92	95	92	90	92	90	88	87																			
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	80																			
4	97	89	84	79	95	88	83	79	86	82	78	84	80	77	82	79	76	75																			
5	92	83	78	73	90	83	77	73	81	76	72	79	75	72	77	74	71	69																			
6	87	78	72	68	86	77	72	68	76	71	67	74	70	67	73	69	66	65																			
7	83	73	67	63	81	73	67	63	71	66	62	70	66	62	69	65	62	60																			
8	79	69	63	59	77	68	63	59	67	62	58	66	62	58	65	61	58	57																			
9	75	65	59	55	74	65	59	55	64	58	55	63	58	55	62	58	54	53																			
10	71	61	56	52	70	61	55	52	60	55	51	59	55	51	59	54	51	50																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	339200
5°	339476
10°	351433
15°	352014
20°	324087
25°	276133
30°	211399
35°	149349
40°	88159
45°	35786
50°	12969
55°	7220
60°	4152
65°	2275
70°	2396
75°	1857
80°	1951
85°	1630

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 35786 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.9	9.5
10°-20°	862.3	27.3
20°-30°	1034.6	32.8
30°-40°	695.3	22.1
40°-50°	208.1	6.6
50°-60°	36.7	1.2
60°-70°	10.4	0.3
70°-80°	5.1	0.2
80°-90°	1.6	0.1
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°	2195.8	69.6
0°-40°	2891.1	91.7
0°-60°	3136.0	99.5
0°-90°	3153.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3153.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3104	
5°	3095	299
15°	3112	862
25°	2290	1035
35°	1120	695
45°	232	208
55°	38	37
65°	9	10
75°	4	5
85°	1	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3104.5
2.5°	3117.7
5°	3095.2
7.5°	3142.0
10°	3167.6
12.5°	3161.4
15°	3112.0
17.5°	2991.1
20°	2787.3
22.5°	2547.3
25°	2290.5
27.5°	2000.7
30°	1675.6
32.5°	1380.9
35°	1119.7
37.5°	861.6
40°	618.1
42.5°	403.7
45°	231.6
47.5°	122.6
50°	76.3
52.5°	52.9
55°	37.9
57.5°	27.4
60°	19.0
62.5°	12.4
65°	8.8
67.5°	7.9
70°	7.5
72.5°	5.7
75°	4.4
77.5°	4.0
80°	3.1
82.5°	2.2
85°	1.3
87.5°	0.9
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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