

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: P755987

Luminaire Tested: LD4D90BD010-EU4DR7070959030-4LBSQW1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P755987
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: LD4D90BD010-EU4DR7070959030-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

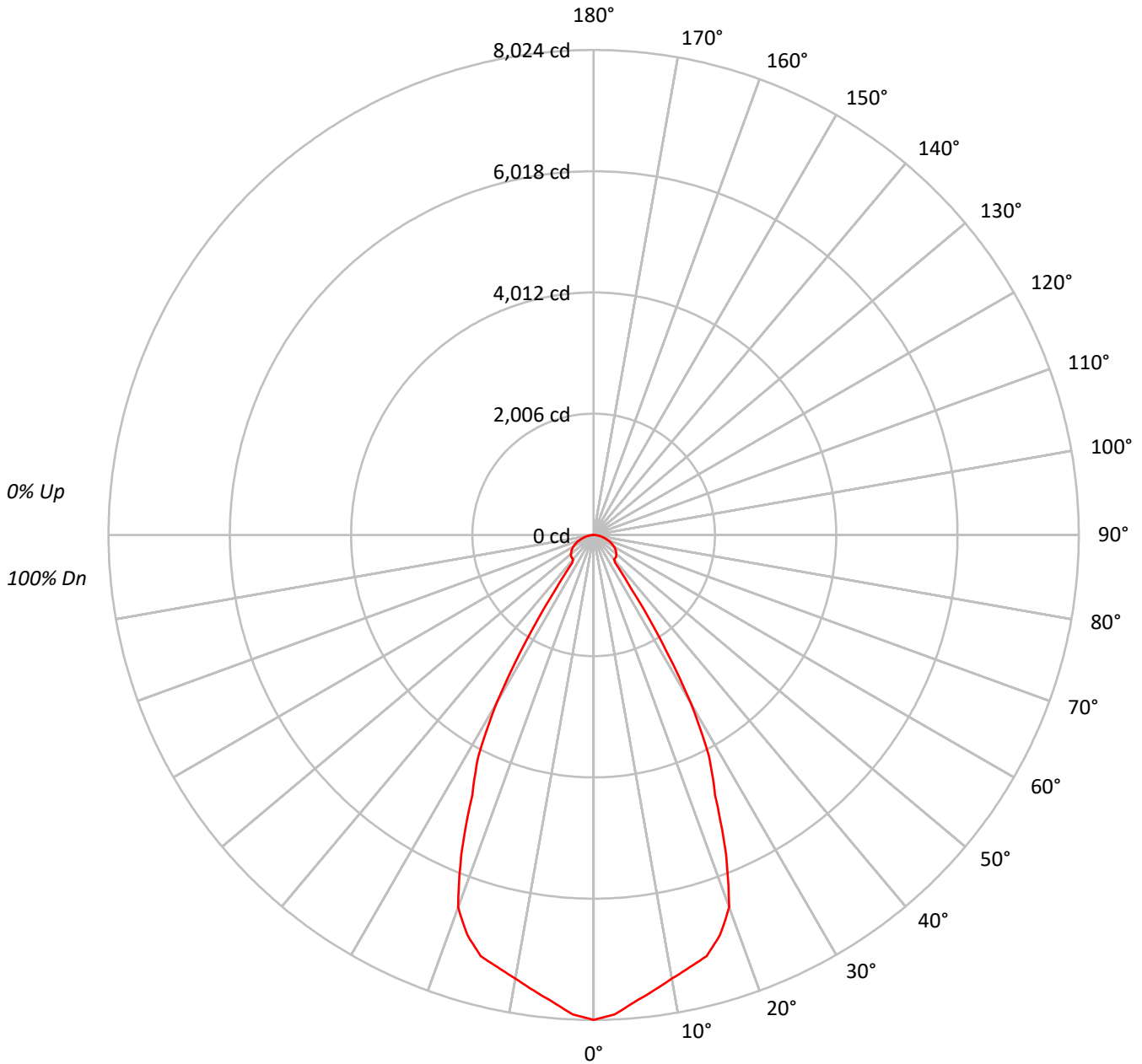
Lumens per Lamp: N/A
Luminaire Lumens: 7137.4 lumens
Efficiency: N/A
Efficacy: 72.2 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.82
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 98.9
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°	876763
5°	850718
10°	827005
15°	816148
20°	762122
25°	572544
30°	404732
35°	143373
40°	75380
45°	80288
50°	83137
55°	84711
60°	85223
65°	83429
70°	78746
75°	72948
80°	64745
85°	52527

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 85265 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	731.6	10.3
10°-20°	2006.8	28.1
20°-30°	2210.2	31.0
30°-40°	844.4	11.8
40°-50°	398.7	5.6
50°-60°	396.4	5.6
60°-70°	317.4	4.4
70°-80°	182.4	2.6
80°-90°	49.6	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°	4948.5	69.3
0°-40°	5793.0	81.2
0°-60°	6588.0	92.3
0°-90°	7137.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7137.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8024	
5°	7756	732
15°	7215	2007
25°	4749	2210
35°	1075	844
45°	520	399
55°	445	396
65°	323	317
75°	173	182
85°	42	50
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	8024.5
2.5°	7940.7
5°	7756.5
7.5°	7602.7
10°	7454.1
12.5°	7328.3
15°	7215.2
17.5°	6942.1
20°	6554.6
22.5°	5718.6
25°	4749.2
27.5°	4134.2
30°	3208.0
32.5°	2072.2
35°	1074.9
37.5°	580.6
40°	528.5
42.5°	524.7
45°	519.6
47.5°	508.2
50°	489.1
52.5°	467.5
55°	444.7
57.5°	419.3
60°	390.0
62.5°	357.0
65°	322.7
67.5°	284.6
70°	246.5
72.5°	208.4
75°	172.8
77.5°	135.9
80°	102.9
82.5°	72.4
85°	41.9
87.5°	16.5
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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(END OF REPORT)