

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: P755818

Luminaire Tested: LD4D90BD010-EU4DR6070959027-4LBSQW1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P755818
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-57)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D90BD010-EU4DR6070959027-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7520.6 lumens
Efficiency: N/A
Efficacy: 76.0 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.83
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

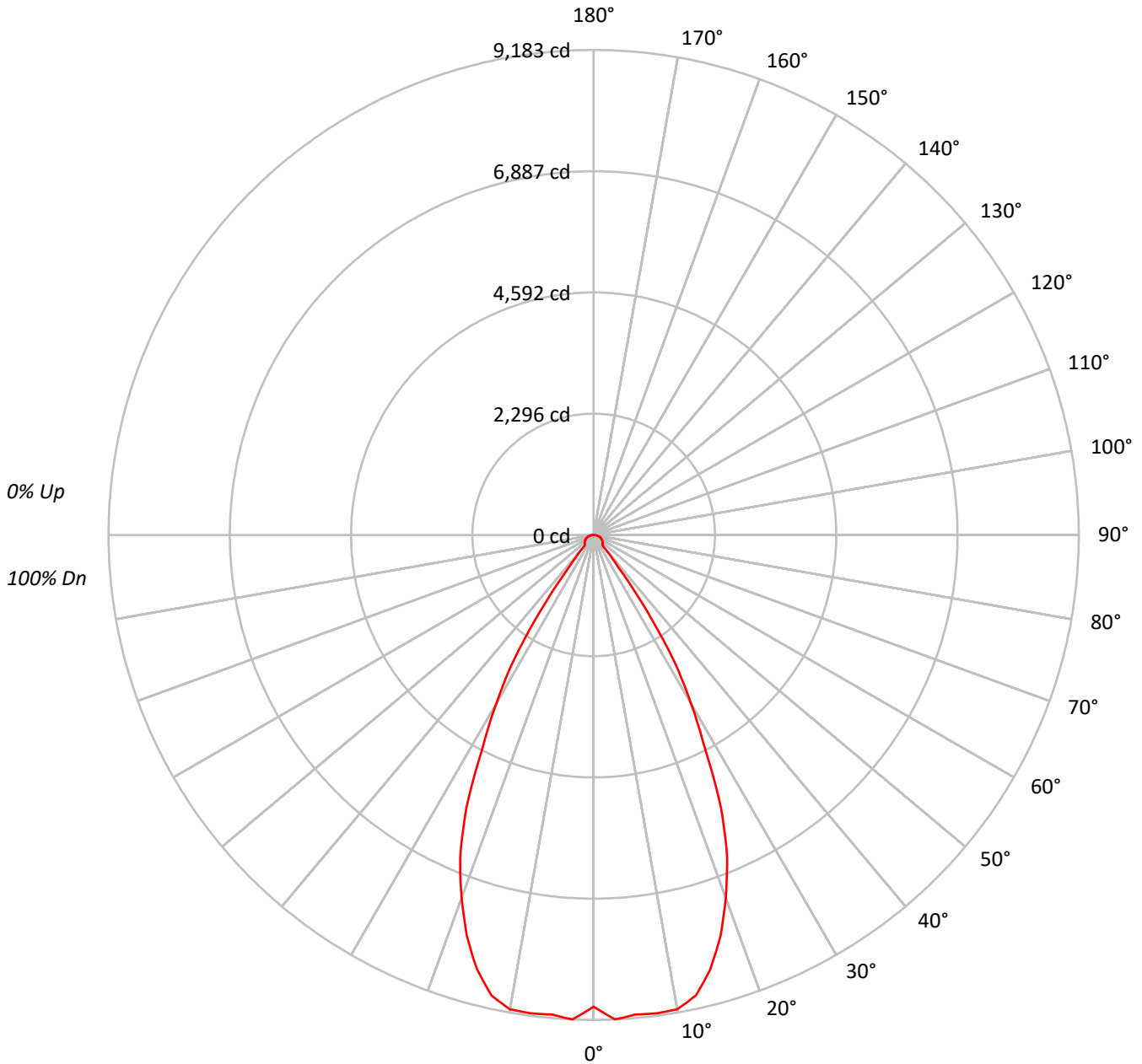
Input Watts (W): 98.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93																			
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86																			
3	102	96	90	86	100	94	89	86	91	88	84	89	86	83	87	84	82	80																			
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75																			
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	70																			
6	88	79	73	69	87	78	73	69	77	72	68	75	71	68	74	70	67	66																			
7	84	75	69	65	83	74	68	64	73	68	64	72	67	64	71	67	63	62																			
8	80	71	65	61	79	70	65	61	69	64	60	68	64	60	67	63	60	59																			
9	77	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55																			
10	73	64	58	54	72	63	58	54	62	58	54	62	57	54	61	57	54	53																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	975884
5°	999881
10°	1011963
15°	964023
20°	849978
25°	687482
30°	465026
35°	233033
40°	37797
45°	36992
50°	37735
55°	38308
60°	39378
65°	40279
70°	41210
75°	41709
80°	40206
85°	33472

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 75°
 Luminance: 41709 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	871.3	11.6
10°-20°	2357.4	31.3
20°-30°	2536.4	33.7
30°-40°	1102.5	14.7
40°-50°	185.2	2.5
50°-60°	180.1	2.4
60°-70°	154.0	2.0
70°-80°	103.0	1.4
80°-90°	30.8	0.4
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°	5765.0	76.7
0°-40°	6867.5	91.3
0°-60°	7232.8	96.2
0°-90°	7520.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7520.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8932	
5°	9116	871
15°	8522	2357
25°	5703	2536
35°	1747	1102
45°	239	185
55°	201	180
65°	156	154
75°	99	103
85°	27	31
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	8931.7
2.5°	9182.8
5°	9116.5
7.5°	9137.4
10°	9121.2
12.5°	8932.9
15°	8522.5
17.5°	7971.6
20°	7310.2
22.5°	6602.3
25°	5702.6
27.5°	4561.2
30°	3685.9
32.5°	2840.8
35°	1747.1
37.5°	747.4
40°	265.0
42.5°	244.1
45°	239.4
47.5°	231.3
50°	222.0
52.5°	211.6
55°	201.1
57.5°	190.6
60°	180.2
62.5°	168.5
65°	155.8
67.5°	143.0
70°	129.0
72.5°	113.9
75°	98.8
77.5°	81.4
80°	63.9
82.5°	45.3
85°	26.7
87.5°	9.3
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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