

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: P755662

Luminaire Tested: LD4D90BD010-EU4DR5070959027-4LBSQW1MW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P755662  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-44)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/30/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D90BD010-EU4DR5070959027-4LBSQW1MW  
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 50° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8007.8 lumens  
Efficiency: N/A  
Efficacy: 81.0 lumens/watt  
Spacing Criteria (0/90/45): 0.8 / 0.8 / 0.73  
Luminous Opening: Circular (Dia: 0.35' x H: 0')  
CIE Type: Direct

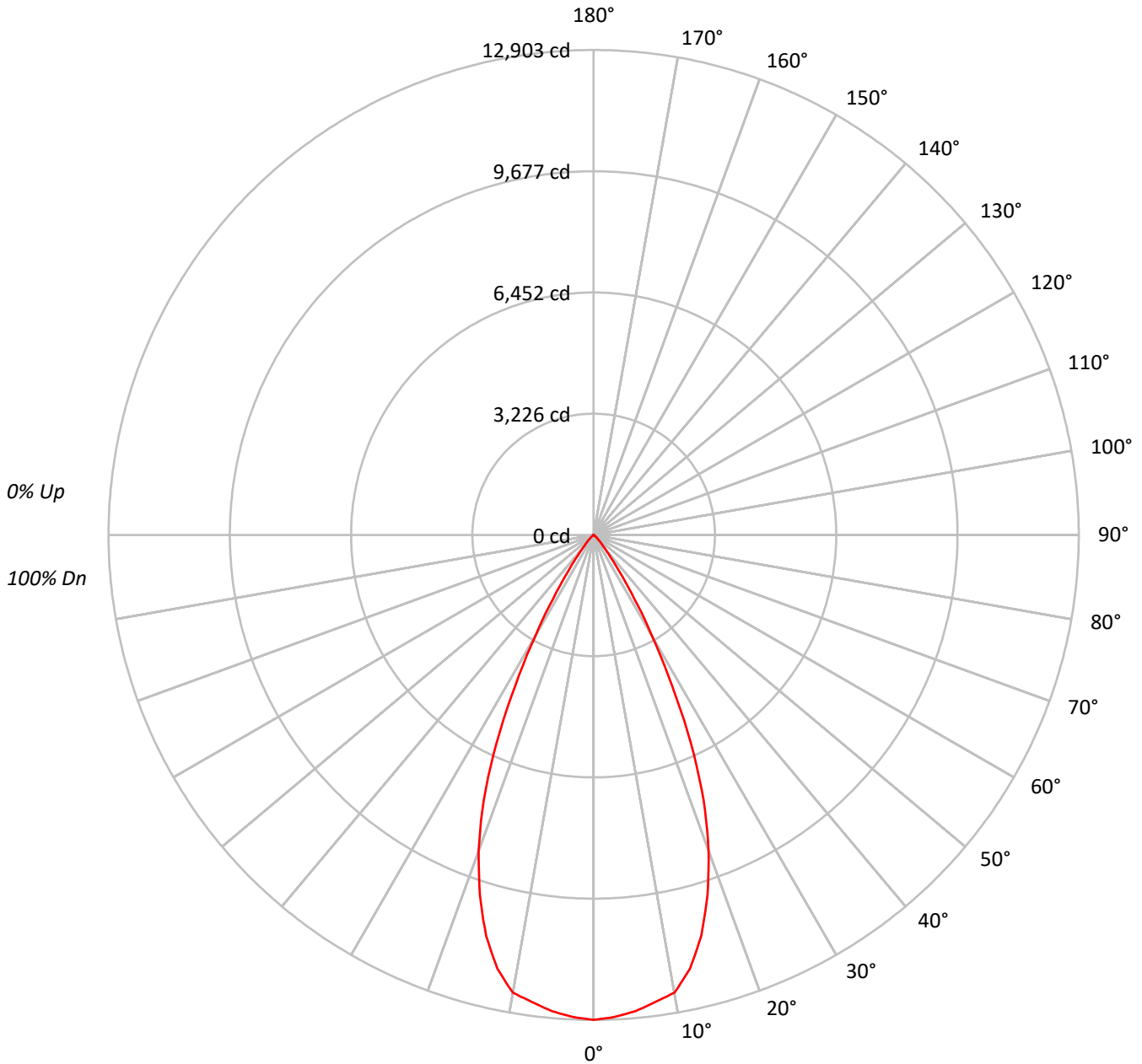
Input Watts (W): 98.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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			100																
1	114	112	109	107	112	110	108	106	106	104	102	102	101	99	98	97	97	95			95																
2	109	105	101	98	107	103	100	97	100	98	95	97	95	93	95	93	91	90			90																
3	105	99	95	91	103	98	94	90	95	92	89	93	90	88	91	88	86	85			85																
4	100	94	89	85	99	93	88	85	90	87	84	89	85	83	87	84	82	80			80																
5	96	89	84	80	95	88	83	79	86	82	79	85	81	78	83	80	77	76			76																
6	92	84	79	75	91	83	79	75	82	78	74	81	77	74	79	76	74	72			72																
7	88	80	75	71	87	79	74	71	78	74	71	77	73	70	76	73	70	69			69																
8	85	76	71	67	84	76	71	67	75	70	67	74	70	67	73	69	66	65			65																
9	81	73	68	64	80	72	67	64	71	67	64	71	67	64	70	66	63	62			62																
10	78	70	64	61	77	69	64	61	68	64	61	68	64	61	67	63	60	59			59																

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	1409748
5°	1394963
10°	1371995
15°	1249311
20°	1039572
25°	737935
30°	390589
35°	159166
40°	59120
45°	27056
50°	11100
55°	5810
60°	2863
65°	853
70°	0
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 27056 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1202.2	15.0
10°-20°	3038.2	37.9
20°-30°	2729.1	34.1
30°-40°	854.4	10.7
40°-50°	149.6	1.9
50°-60°	29.8	0.4
60°-70°	4.5	0.1
70°-80°	0.0	0.0
80°-90°	0.0	0.0
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°	6969.4	87.0
0°-40°	7823.8	97.7
0°-60°	8003.3	99.9
0°-90°	8007.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8007.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	12903	
5°	12719	###
15°	11045	3038
25°	6121	2729
35°	1193	854
45°	175	150
55°	30	30
65°	3	5
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	12902.6
2.5°	12838.4
5°	12718.7
7.5°	12536.0
10°	12366.3
12.5°	11822.4
15°	11044.6
17.5°	10056.8
20°	8940.8
22.5°	7649.5
25°	6121.1
27.5°	4500.3
30°	3095.9
32.5°	2015.7
35°	1193.3
37.5°	685.3
40°	414.5
42.5°	269.8
45°	175.1
47.5°	106.6
50°	65.3
52.5°	44.6
55°	30.5
57.5°	20.7
60°	13.1
62.5°	7.6
65°	3.3
67.5°	1.1
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
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)