

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: HALO

Report Number: P886754

Luminaire Tested: ML310LSFL9FS1E-TIR4D55WFL-TL3RDSL-1000LM-3500K

Issue Date: 7/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P886754
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-8)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 7/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML310LSFL9FS1E-TIR4D55WFL-TL3RDSL-1000LM-3500K
Description: 3IN ROUND ML FLEX, SELECTABLE CCT, WITH 55D TIR, METALLIC SILVER TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1225.4 lumens
Efficiency: N/A
Efficacy: 88.8 lumens/watt
Spacing Criteria (0/90/45): 0.8 / 0.8 / 0.76
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

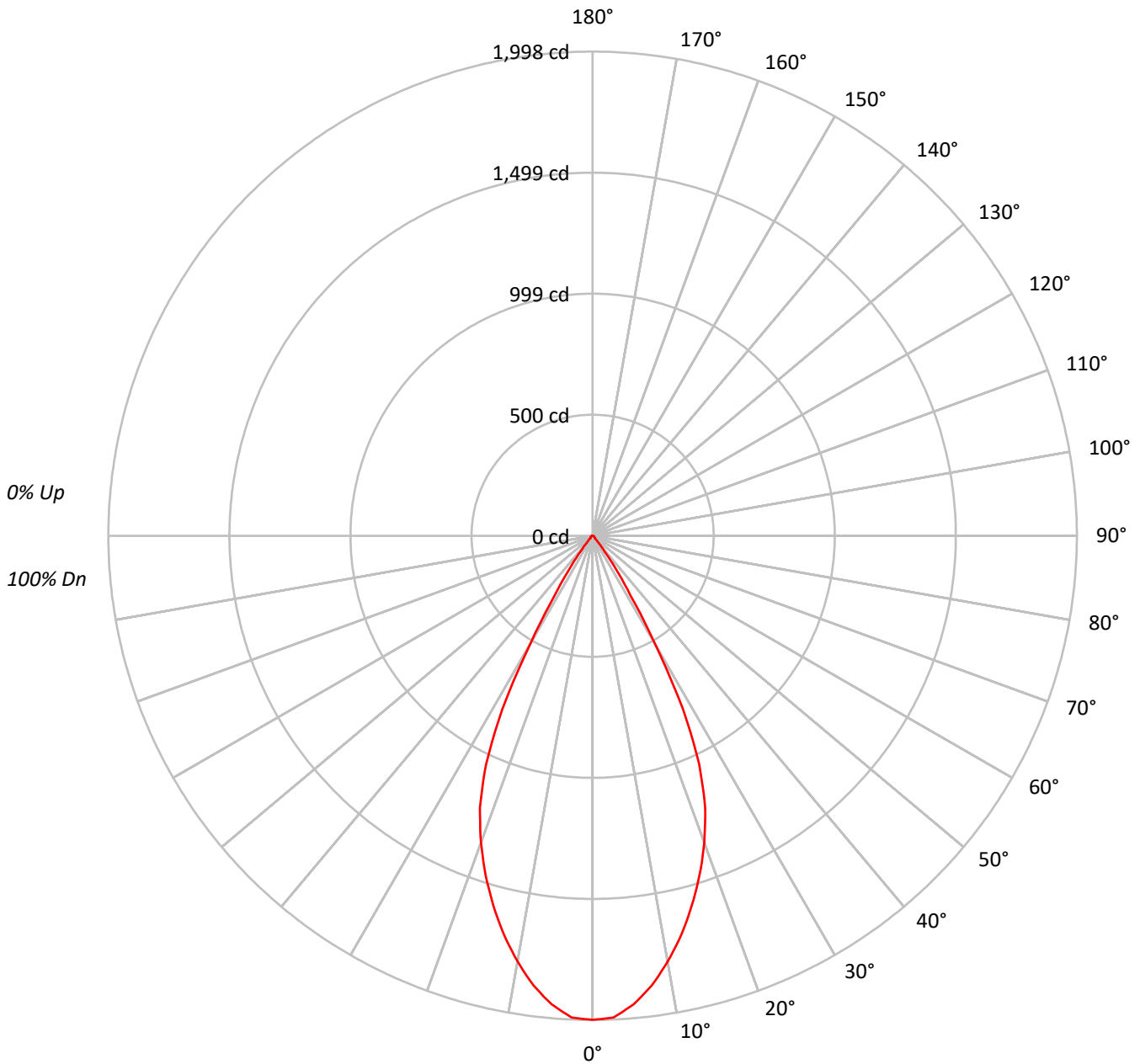
Input Watts (W): 13.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	114	111	109	107	112	109	107	105	105	104	102	102	100	99	98	97	96	94																			
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89																			
3	104	99	94	90	102	97	93	90	95	91	88	92	89	87	90	88	86	84																			
4	100	93	88	84	98	92	87	84	90	86	83	88	85	82	86	83	81	80																			
5	96	88	83	79	94	87	82	79	85	81	78	84	80	77	82	79	77	75																			
6	92	84	78	74	90	83	78	74	81	77	74	80	76	73	79	75	73	71																			
7	88	79	74	70	86	79	74	70	78	73	70	76	72	69	75	72	69	68																			
8	84	76	70	67	83	75	70	67	74	70	66	73	69	66	72	68	66	65																			
9	81	72	67	63	80	72	67	63	71	66	63	70	66	63	69	65	63	61																			
10	78	69	64	60	77	68	64	60	68	63	60	67	63	60	66	62	60	59																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	438079
5°	427272
10°	397232
15°	358890
20°	314281
25°	251627
30°	128551
35°	42643
40°	11307
45°	3969
50°	3650
55°	3670
60°	3772
65°	3321
70°	3398
75°	3643
80°	4041
85°	2768

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 80°
 Luminance: 4041 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.3	14.7
10°-20°	440.3	35.9
20°-30°	450.3	36.7
30°-40°	120.9	9.9
40°-50°	12.7	1.0
50°-60°	8.4	0.7
60°-70°	6.7	0.6
70°-80°	4.5	0.4
80°-90°	1.3	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°	1070.8	87.4
0°-40°	1191.8	97.3
0°-60°	1212.9	99.0
0°-90°	1225.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1225.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1998	
5°	1941	180
15°	1581	440
25°	1040	450
35°	159	121
45°	13	13
55°	10	8
65°	6	7
75°	4	4
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1997.8
2.5°	1989.2
5°	1941.1
7.5°	1871.6
10°	1784.0
12.5°	1687.8
15°	1580.9
17.5°	1467.6
20°	1346.8
22.5°	1214.3
25°	1040.0
27.5°	807.0
30°	507.7
32.5°	289.7
35°	159.3
37.5°	82.3
40°	39.5
42.5°	17.1
45°	12.8
47.5°	11.8
50°	10.7
52.5°	9.6
55°	9.6
57.5°	8.6
60°	8.6
62.5°	7.5
65°	6.4
67.5°	6.4
70°	5.3
72.5°	5.3
75°	4.3
77.5°	3.2
80°	3.2
82.5°	2.1
85°	1.1
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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