

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: P886747

Luminaire Tested: ML310LSFL9FS1E-TIR4D55WFL-TL3RDMW-1000LM-2700K

Issue Date: 7/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P886747
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-7)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 7/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML310LSFL9FS1E-TIR4D55WFL-TL3RDMW-1000LM-2700K
Description: 3IN ROUND ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE WHITE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

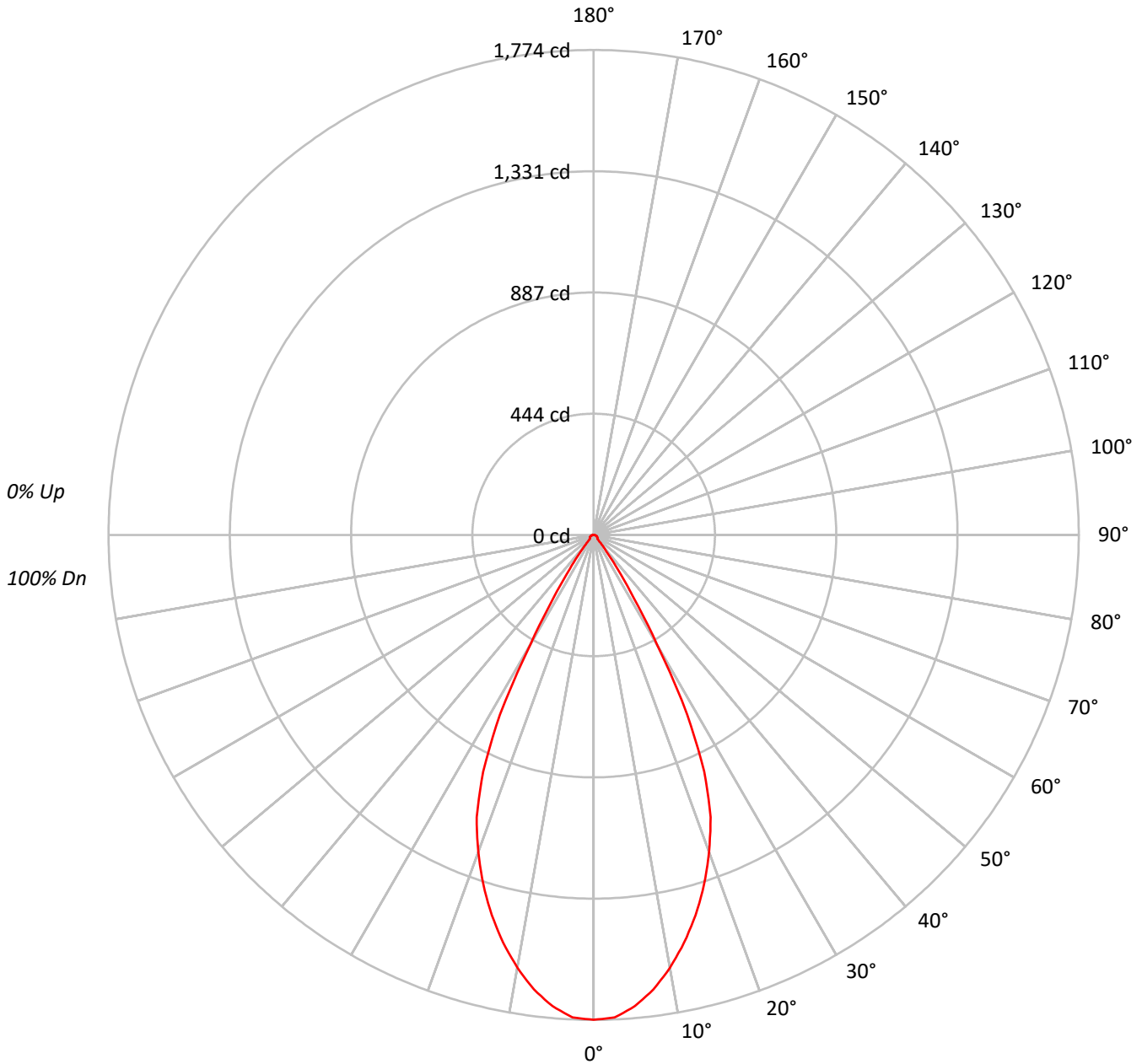
Lumens per Lamp: N/A
Luminaire Lumens: 1146.0 lumens
Efficiency: N/A
Efficacy: 83.0 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.82 / 0.76
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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					20					
RC	80					70					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	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	111	109	106	111	109	107	105	105	103	102	101	100	99	98	97	96	94					94			
2	109	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88					88			
3	104	98	93	89	102	96	92	89	94	90	87	91	88	86	89	87	84	83					83			
4	99	92	87	83	97	91	86	82	89	85	82	87	83	81	85	82	80	78					78			
5	95	87	82	78	93	86	81	77	84	80	77	83	79	76	81	78	75	74					74			
6	91	82	77	73	89	82	76	73	80	76	72	79	75	72	78	74	71	70					70			
7	87	78	73	69	85	78	72	69	76	72	68	75	71	68	74	70	68	66					66			
8	83	74	69	65	82	74	69	65	73	68	65	72	68	65	71	67	64	63					63			
9	80	71	65	62	79	70	65	62	70	65	62	69	64	61	68	64	61	60					60			
10	76	68	62	59	76	67	62	59	66	62	59	66	61	58	65	61	58	57					57			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	388916
5°	380937
10°	357976
15°	326835
20°	287888
25°	231255
30°	117208
35°	40689
40°	12595
45°	6202
50°	6141
55°	6499
60°	6578
65°	6745
70°	7052
75°	6778
80°	6314
85°	5032

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 77.5°
 Luminance: 7092 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.3	14.1
10°-20°	400.7	35.0
20°-30°	413.6	36.1
30°-40°	113.8	9.9
40°-50°	17.8	1.6
50°-60°	14.9	1.3
60°-70°	12.9	1.1
70°-80°	8.4	0.7
80°-90°	2.6	0.2
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°	975.6	85.1
0°-40°	1089.4	95.1
0°-60°	1122.1	97.9
0°-90°	1146.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1146.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1774	
5°	1731	161
15°	1440	401
25°	956	414
35°	152	114
45°	20	18
55°	17	15
65°	13	13
75°	8	8
85°	2	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1773.6
2.5°	1766.6
5°	1730.6
7.5°	1676.7
10°	1607.7
12.5°	1527.7
15°	1439.7
17.5°	1341.7
20°	1233.7
22.5°	1117.8
25°	955.8
27.5°	741.8
30°	462.9
32.5°	269.9
35°	152.0
37.5°	81.0
40°	44.0
42.5°	23.0
45°	20.0
47.5°	19.0
50°	18.0
52.5°	17.0
55°	17.0
57.5°	16.0
60°	15.0
62.5°	14.0
65°	13.0
67.5°	12.0
70°	11.0
72.5°	9.0
75°	8.0
77.5°	7.0
80°	5.0
82.5°	4.0
85°	2.0
87.5°	1.0
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)