

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: P886619

Luminaire Tested: ML310LSFL95FS1E-TIR4D55WFL-TL3RDMW-850LM-3500K

Issue Date: 7/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P886619
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: ML310LSFL95FS1E-TIR4D55WFL-TL3RDMW-850LM-3500K
Description: 3IN ROUND ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE WHITE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 3500K CCT
Ballast/Driver: -

Summary

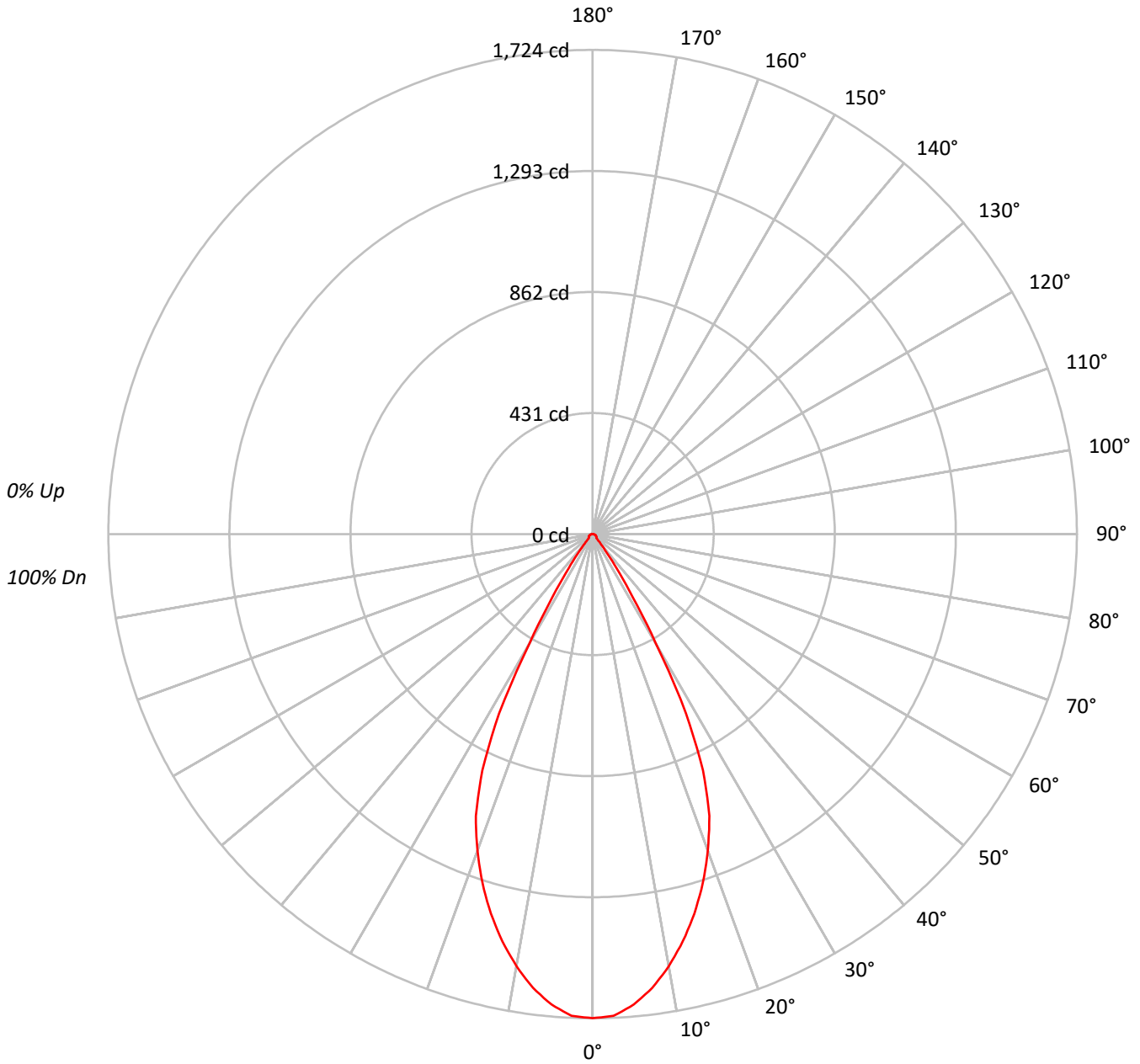
Lumens per Lamp: N/A
Luminaire Lumens: 1113.6 lumens
Efficiency: N/A
Efficacy: 81.9 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.82 / 0.76
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 13.6
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°	377952
5°	370195
10°	347867
15°	317618
20°	279768
25°	224723
30°	113891
35°	39538
40°	12223
45°	6016
50°	5970
55°	6308
60°	6403
65°	6538
70°	6860
75°	6608
80°	6188
85°	4780

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 77.5°
 Luminance: 6889 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.7	14.1
10°-20°	389.4	35.0
20°-30°	401.9	36.1
30°-40°	110.6	9.9
40°-50°	17.3	1.6
50°-60°	14.5	1.3
60°-70°	12.5	1.1
70°-80°	8.2	0.7
80°-90°	2.5	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°	948.0	85.1
0°-40°	1058.6	95.1
0°-60°	1090.4	97.9
0°-90°	1113.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1113.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1724	
5°	1682	157
15°	1399	389
25°	929	402
35°	148	111
45°	19	17
55°	16	14
65°	13	13
75°	8	8
85°	2	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1723.6
2.5°	1716.8
5°	1681.8
7.5°	1629.3
10°	1562.3
12.5°	1484.6
15°	1399.1
17.5°	1303.8
20°	1198.9
22.5°	1086.2
25°	928.8
27.5°	720.9
30°	449.8
32.5°	262.3
35°	147.7
37.5°	78.7
40°	42.7
42.5°	22.3
45°	19.4
47.5°	18.5
50°	17.5
52.5°	16.5
55°	16.5
57.5°	15.5
60°	14.6
62.5°	13.6
65°	12.6
67.5°	11.7
70°	10.7
72.5°	8.7
75°	7.8
77.5°	6.8
80°	4.9
82.5°	3.9
85°	1.9
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)