

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: P886561

Luminaire Tested: ML310LSFL95FS1E-TIR4D25NFL-TL3RDMW-850LM-5000K

Issue Date: 7/18/2024

Test Information

Test Method: LM-79-2019
Report Number: P886561
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 7/18/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML310LSFL95FS1E-TIR4D25NFL-TL3RDMW-850LM-5000K
Description: 3IN ROUND ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE WHITE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1102.5 lumens
Efficiency: N/A
Efficacy: 81.1 lumens/watt
Spacing Criteria (0/90/45): 0.47 / 0.47 / 0.5
Luminous Opening: Circular (Dia: 0.25' x H: 0')

CIE Type: Direct

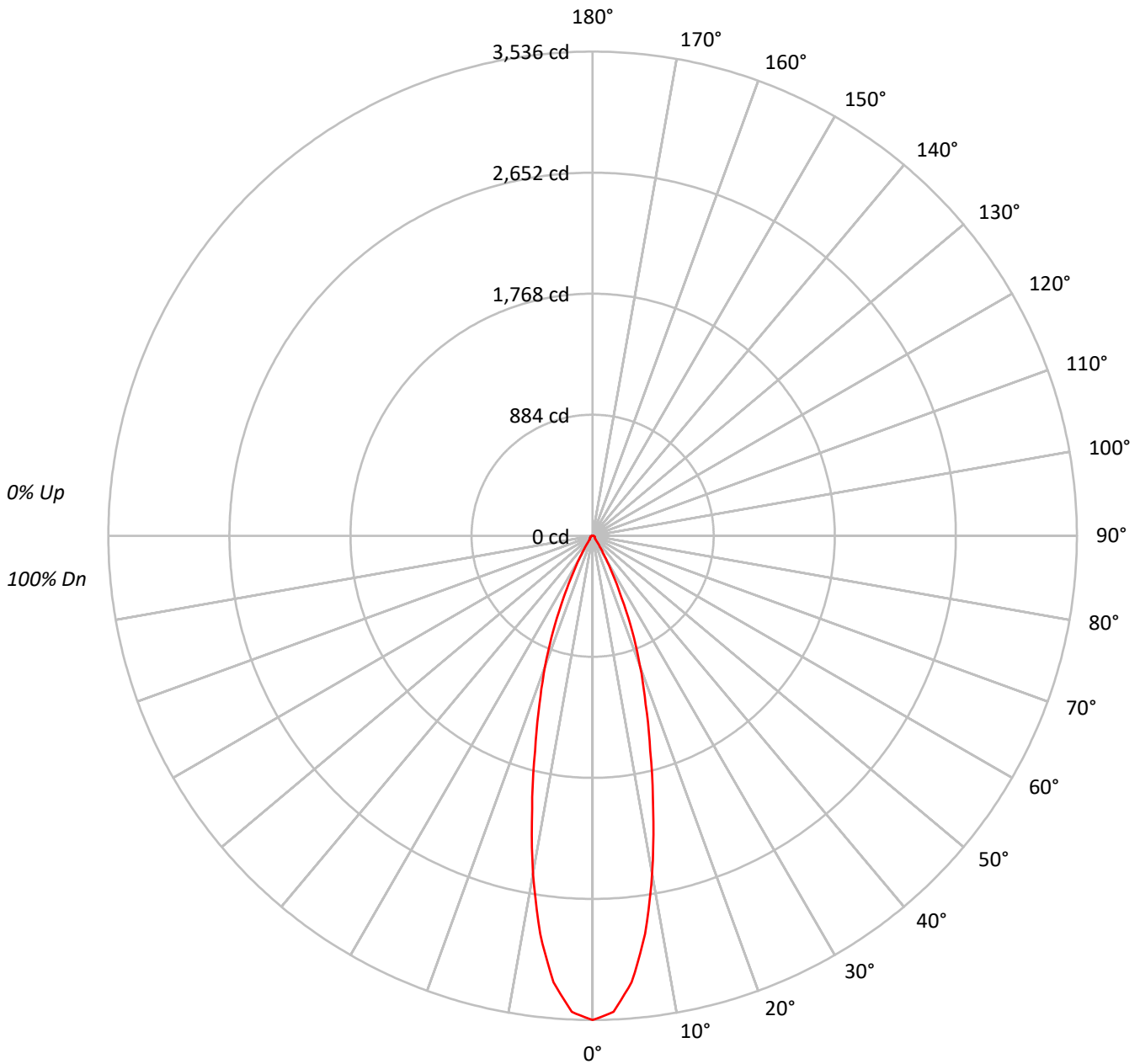
Input Watts (W): 13.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	775442
5°	720425
10°	557705
15°	368629
20°	236294
25°	121604
30°	49096
35°	18042
40°	8759
45°	7846
50°	7539
55°	8067
60°	8333
65°	8769
70°	8784
75°	8896
80°	7956
85°	8051

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 82.5°
 Luminance: 8904 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.5	26.1
10°-20°	454.2	41.2
20°-30°	240.9	21.8
30°-40°	50.7	4.6
40°-50°	19.9	1.8
50°-60°	18.8	1.7
60°-70°	16.3	1.5
70°-80°	10.7	1.0
80°-90°	3.5	0.3
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°	982.6	89.1
0°-40°	1033.3	93.7
0°-60°	1072.0	97.2
0°-90°	1102.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1102.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3536	
5°	3273	288
15°	1624	454
25°	503	241
35°	67	51
45°	25	20
55°	21	19
65°	17	16
75°	10	11
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3536.3
2.5°	3480.5
5°	3272.9
7.5°	2933.6
10°	2504.7
12.5°	2043.2
15°	1623.8
17.5°	1288.7
20°	1012.6
22.5°	752.4
25°	502.6
27.5°	321.4
30°	193.9
32.5°	115.9
35°	67.4
37.5°	40.0
40°	30.6
42.5°	27.4
45°	25.3
47.5°	24.2
50°	22.1
52.5°	22.1
55°	21.1
57.5°	20.0
60°	19.0
62.5°	17.9
65°	16.9
67.5°	14.8
70°	13.7
72.5°	11.6
75°	10.5
77.5°	8.4
80°	6.3
82.5°	5.3
85°	3.2
87.5°	1.1
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)