

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: P886617

Luminaire Tested: ML310LSFL95FS1E-TIR4D55WFL-TL3RDMW-850LM-2700K

Issue Date: 7/5/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P886617  
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-2700K  
Description: 3IN ROUND ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE WHITE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

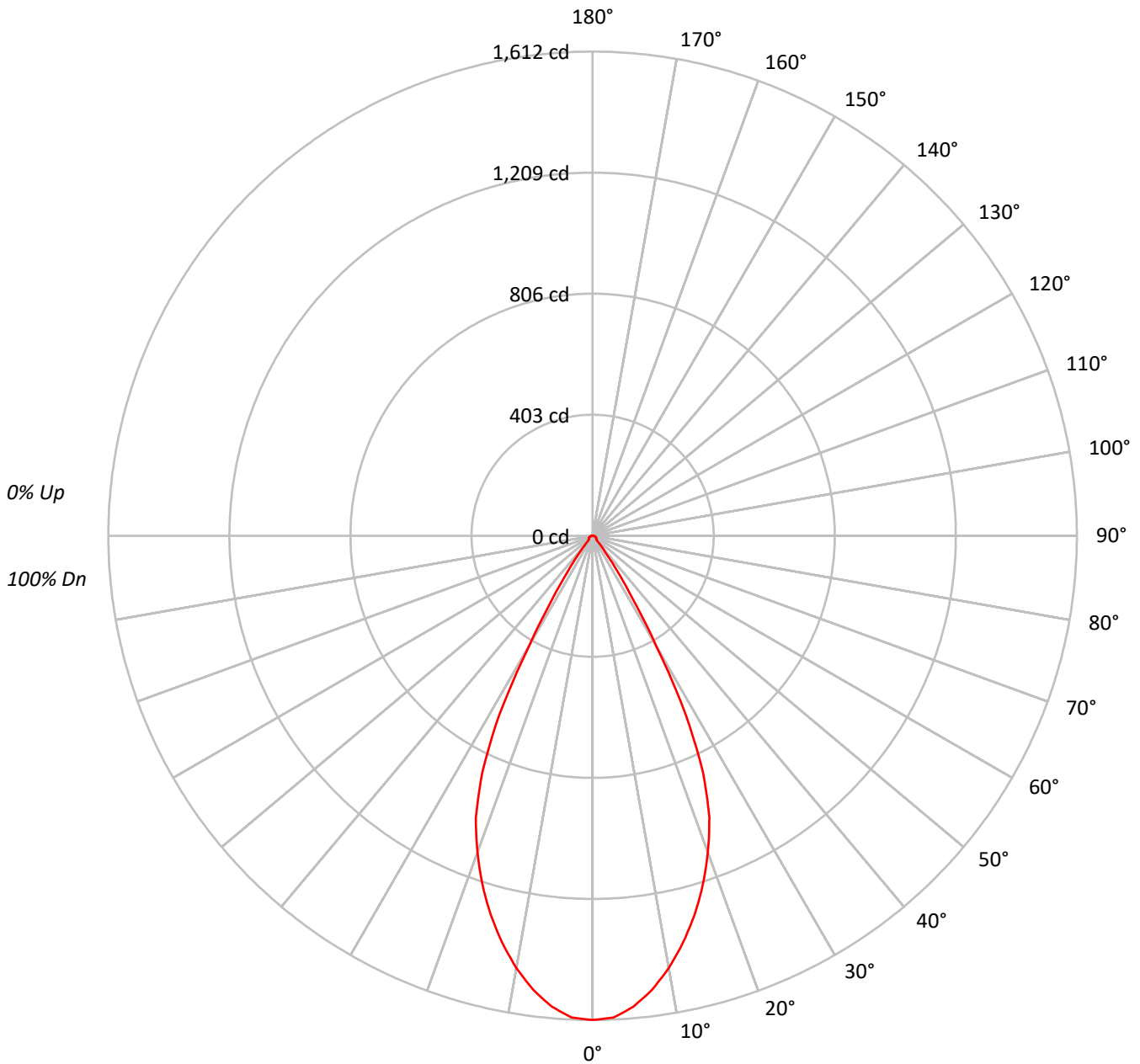
Lumens per Lamp: N/A  
Luminaire Lumens: 1041.5 lumens  
Efficiency: N/A  
Efficacy: 76.6 lumens/watt  
Spacing Criteria (0/90/45): 0.82 / 0.82 / 0.76  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 13.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	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	106	111	109	107	105	105	103	102	101	100	99	98	97	96	94			
2	109	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88			
3	104	98	93	89	102	96	92	89	94	90	87	91	88	86	89	87	84	83			
4	99	92	87	83	97	91	86	83	89	85	82	87	83	81	85	82	80	78			
5	95	87	82	78	93	86	81	77	84	80	77	83	79	76	81	78	75	74			
6	91	82	77	73	89	82	76	73	80	76	72	79	75	72	78	74	71	70			
7	87	78	73	69	85	78	72	69	76	72	68	75	71	68	74	70	68	66			
8	83	74	69	65	82	74	69	65	73	68	65	72	68	65	71	67	64	63			
9	80	71	65	62	79	70	65	62	70	65	62	69	64	61	68	64	61	60			
10	76	68	62	59	76	67	62	59	66	62	59	66	61	58	65	61	58	57			

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

	0°
0°	353459
5°	346202
10°	325334
15°	297028
20°	261636
25°	210157
30°	106523
35°	36968
40°	11450
45°	5644
50°	5595
55°	5887
60°	5964
65°	6123
70°	6411
75°	6185
80°	5683
85°	4529

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 77.5°  
 Luminance: 6484 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	146.6	14.1
10°-20°	364.1	35.0
20°-30°	375.9	36.1
30°-40°	103.5	9.9
40°-50°	16.2	1.6
50°-60°	13.5	1.3
60°-70°	11.7	1.1
70°-80°	7.7	0.7
80°-90°	2.3	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°	886.6	85.1
0°-40°	990.0	95.1
0°-60°	1019.7	97.9
0°-90°	1041.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1041.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1612	
5°	1573	147
15°	1308	364
25°	869	376
35°	138	103
45°	18	16
55°	15	14
65°	12	12
75°	7	8
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1611.9
2.5°	1605.5
5°	1572.8
7.5°	1523.7
10°	1461.1
12.5°	1388.4
15°	1308.4
17.5°	1219.4
20°	1121.2
22.5°	1015.8
25°	868.6
27.5°	674.2
30°	420.7
32.5°	245.3
35°	138.1
37.5°	73.6
40°	40.0
42.5°	20.9
45°	18.2
47.5°	17.3
50°	16.4
52.5°	15.4
55°	15.4
57.5°	14.5
60°	13.6
62.5°	12.7
65°	11.8
67.5°	10.9
70°	10.0
72.5°	8.2
75°	7.3
77.5°	6.4
80°	4.5
82.5°	3.6
85°	1.8
87.5°	0.9
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)