

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: P886618

Luminaire Tested: ML310LSFL95FS1E-TIR4D55WFL-TL3RDMW-850LM-3000K

Issue Date: 7/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P886618
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-3000K
Description: 3IN ROUND ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE WHITE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 3000K CCT
Ballast/Driver: -

Summary

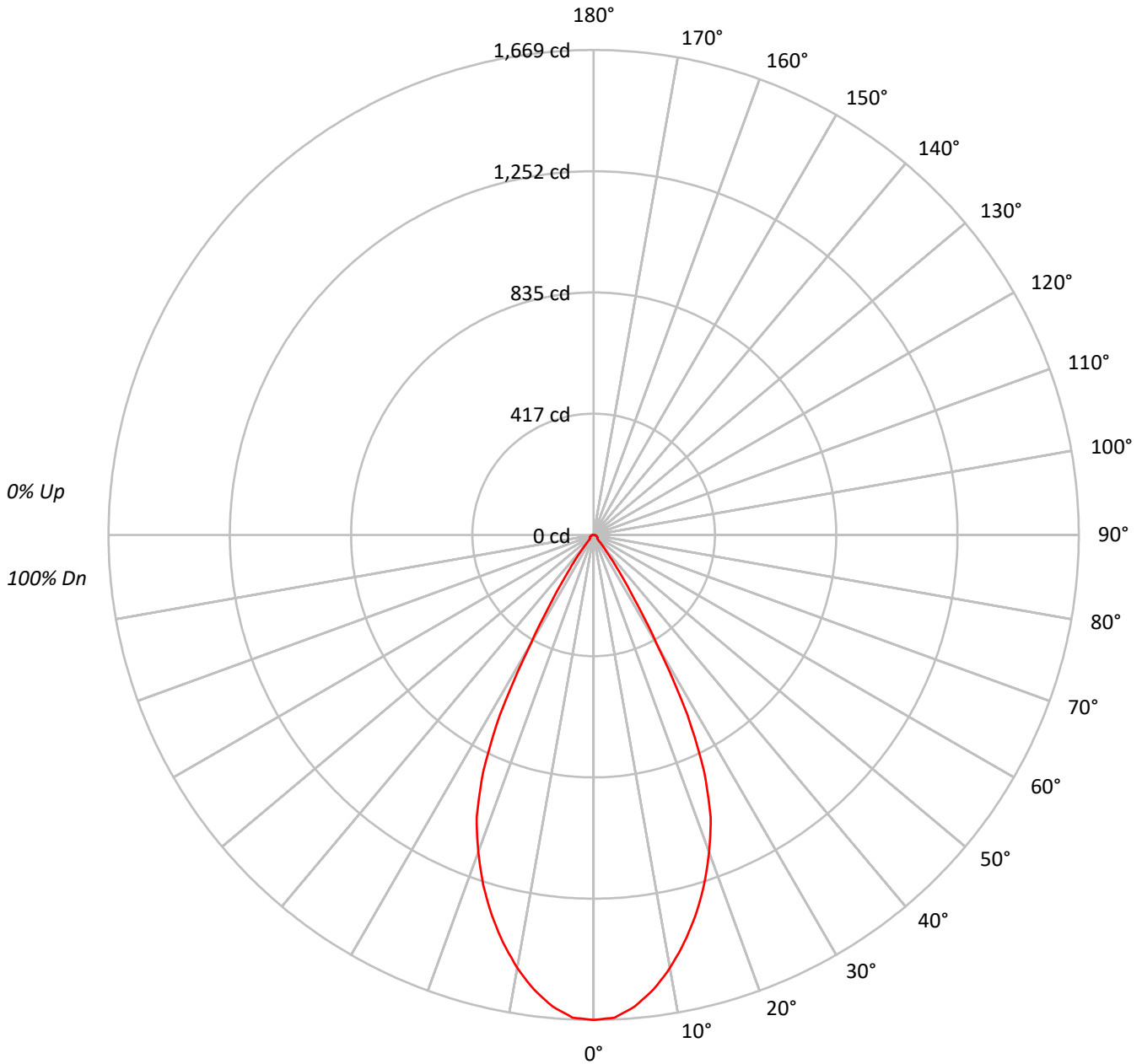
Lumens per Lamp: N/A
Luminaire Lumens: 1078.5 lumens
Efficiency: N/A
Efficacy: 79.3 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.82 / 0.76
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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									
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				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	83	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°	366023
5°	358507
10°	336890
15°	307584
20°	270947
25°	217634
30°	110295
35°	38280
40°	11851
45°	5830
50°	5765
55°	6117
60°	6184
65°	6330
70°	6604
75°	6354
80°	5935
85°	4780

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 77.5°
 Luminance: 6687 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.8	14.1
10°-20°	377.1	35.0
20°-30°	389.3	36.1
30°-40°	107.1	9.9
40°-50°	16.7	1.6
50°-60°	14.0	1.3
60°-70°	12.1	1.1
70°-80°	7.9	0.7
80°-90°	2.4	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°	918.1	85.1
0°-40°	1025.2	95.1
0°-60°	1056.0	97.9
0°-90°	1078.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1078.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1669	
5°	1629	152
15°	1355	377
25°	900	389
35°	143	107
45°	19	17
55°	16	14
65°	12	12
75°	8	8
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1669.2
2.5°	1662.6
5°	1628.7
7.5°	1577.9
10°	1513.0
12.5°	1437.7
15°	1354.9
17.5°	1262.7
20°	1161.1
22.5°	1051.9
25°	899.5
27.5°	698.2
30°	435.6
32.5°	254.0
35°	143.0
37.5°	76.2
40°	41.4
42.5°	21.6
45°	18.8
47.5°	17.9
50°	16.9
52.5°	16.0
55°	16.0
57.5°	15.1
60°	14.1
62.5°	13.2
65°	12.2
67.5°	11.3
70°	10.3
72.5°	8.5
75°	7.5
77.5°	6.6
80°	4.7
82.5°	3.8
85°	1.9
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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