

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: P886593

Luminaire Tested: ML310LSFL95FS1E-TIR4D40FL-TL3RDSL-850LM-3000K

Issue Date: 7/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P886593
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-5)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 7/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML310LSFL95FS1E-TIR4D40FL-TL3RDSL-850LM-3000K
Description: 3IN ROUND ML FLEX, SELECTABLE CCT, WITH 40D TIR, METALLIC SILVER TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1136.8 lumens
Efficiency: N/A
Efficacy: 83.6 lumens/watt
Spacing Criteria (0/90/45): 0.67 / 0.67 / 0.63
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

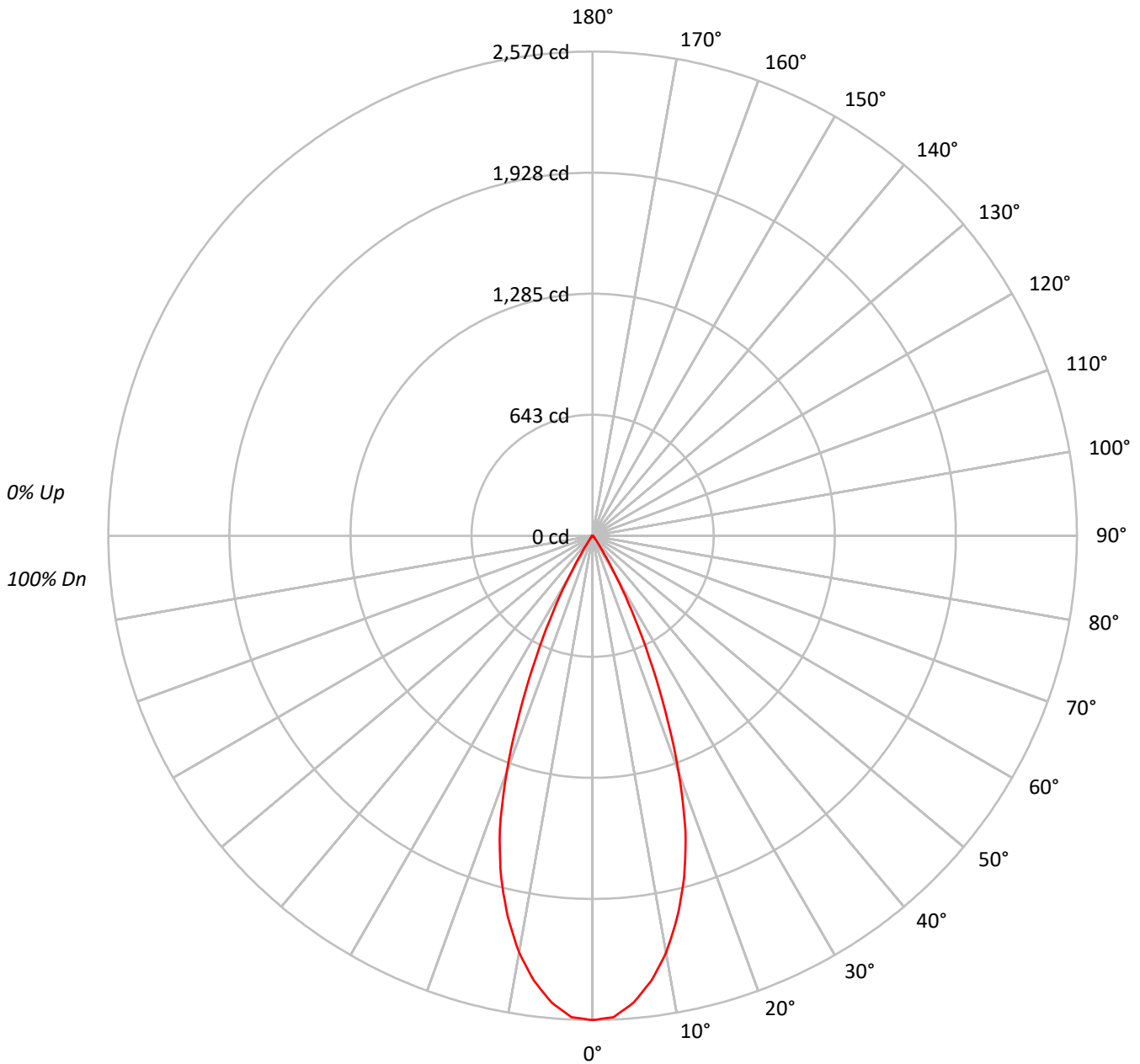
Input Watts (W): 13.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95			95																
2	110	106	103	100	108	104	101	99	101	99	96	98	96	94	95	94	92	91			91																
3	106	100	96	93	104	99	95	92	97	94	91	94	92	90	92	90	88	87			87																
4	102	96	91	88	100	95	90	87	93	89	86	91	88	85	89	86	84	83			83																
5	98	91	87	83	97	90	86	83	89	85	82	87	84	81	86	83	81	79			79																
6	94	87	82	79	93	87	82	79	85	81	78	84	80	78	83	80	77	76			76																
7	91	84	79	75	90	83	78	75	82	78	75	81	77	75	80	77	74	73			73																
8	88	80	75	72	87	80	75	72	79	75	72	78	74	71	77	74	71	70			70																
9	85	77	72	69	84	77	72	69	76	72	69	75	71	69	74	71	68	67			67																
10	82	74	70	67	81	74	69	66	73	69	66	72	69	66	72	68	66	65			65																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	563639
5°	547566
10°	500280
15°	426109
20°	310664
25°	170042
30°	60997
35°	13840
40°	5668
45°	2636
50°	2252
55°	2141
60°	2456
65°	2439
70°	2436
75°	2372
80°	2399
85°	2264

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 82.5°
 Luminance: 3192 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.7	20.2
10°-20°	510.1	44.9
20°-30°	325.9	28.7
30°-40°	48.9	4.3
40°-50°	7.9	0.7
50°-60°	5.3	0.5
60°-70°	4.7	0.4
70°-80°	3.2	0.3
80°-90°	1.0	0.1
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°	1065.8	93.8
0°-40°	1114.6	98.1
0°-60°	1127.9	99.2
0°-90°	1136.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1136.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2570	
5°	2488	230
15°	1877	510
25°	703	326
35°	52	49
45°	8	8
55°	6	5
65°	5	5
75°	3	3
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2570.4
2.5°	2557.3
5°	2487.6
7.5°	2382.3
10°	2246.8
12.5°	2074.6
15°	1877.0
17.5°	1639.9
20°	1331.3
22.5°	1006.7
25°	702.8
27.5°	449.7
30°	240.9
32.5°	113.8
35°	51.7
37.5°	31.0
40°	19.8
42.5°	12.2
45°	8.5
47.5°	7.5
50°	6.6
52.5°	6.6
55°	5.6
57.5°	5.6
60°	5.6
62.5°	4.7
65°	4.7
67.5°	4.7
70°	3.8
72.5°	3.8
75°	2.8
77.5°	2.8
80°	1.9
82.5°	1.9
85°	0.9
87.5°	0.0
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)