

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: P886801

Luminaire Tested: ML310LSFLD2W1E-TIR4D40FL-TL3RDSL-600LM-3000K

Issue Date: 7/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P886801
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: ML310LSFLD2W1E-TIR4D40FL-TL3RDSL-600LM-3000K
Description: 3IN ROUND ML FLEX, SELECTABLE CCT, WITH 40D TIR, METALLIC SILVER TRIM
Light Source: (1) D2W LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 816.2 lumens
Efficiency: N/A
Efficacy: 85.9 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

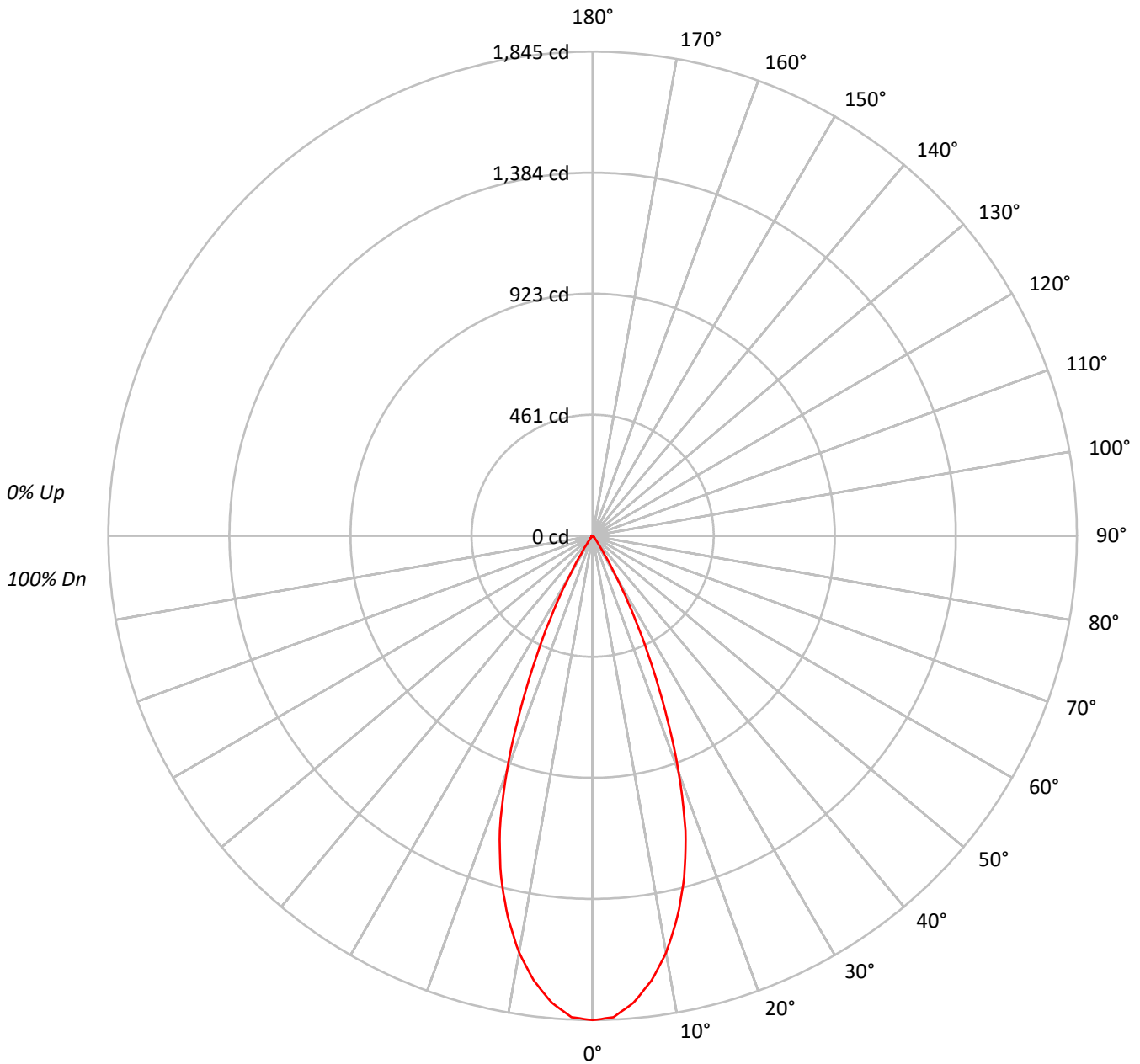
Input Watts (W): 9.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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	66	81	74	69	66	73	69	66	72	69	66	72	68	66	65			65

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	404661
5°	393109
10°	359156
15°	305927
20°	223039
25°	122088
30°	43779
35°	9958
40°	4065
45°	1892
50°	1603
55°	1567
60°	1798
65°	1764
70°	1731
75°	1694
80°	1768
85°	1761

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 82.5°
 Luminance: 2352 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.9	20.2
10°-20°	366.2	44.9
20°-30°	234.0	28.7
30°-40°	35.1	4.3
40°-50°	5.7	0.7
50°-60°	3.9	0.5
60°-70°	3.4	0.4
70°-80°	2.3	0.3
80°-90°	0.8	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°	765.2	93.7
0°-40°	800.3	98.0
0°-60°	809.8	99.2
0°-90°	816.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	816.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1845	
5°	1786	165
15°	1348	366
25°	505	234
35°	37	35
45°	6	6
55°	4	4
65°	3	3
75°	2	2
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1845.4
2.5°	1835.9
5°	1785.9
7.5°	1710.3
10°	1613.0
12.5°	1489.4
15°	1347.6
17.5°	1177.3
20°	955.8
22.5°	722.8
25°	504.6
27.5°	322.9
30°	172.9
32.5°	81.7
35°	37.2
37.5°	22.3
40°	14.2
42.5°	8.8
45°	6.1
47.5°	5.4
50°	4.7
52.5°	4.7
55°	4.1
57.5°	4.1
60°	4.1
62.5°	3.4
65°	3.4
67.5°	3.4
70°	2.7
72.5°	2.7
75°	2.0
77.5°	2.0
80°	1.4
82.5°	1.4
85°	0.7
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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