

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: P886786

Luminaire Tested: ML310LSFLD2W1E-TIR4D25NFL-TL3RDMW-600LM-2700K

Issue Date: 7/18/2024

Test Information

Test Method: LM-79-2019
Report Number: P886786
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: ML310LSFLD2W1E-TIR4D25NFL-TL3RDMW-600LM-2700K
Description: 3IN ROUND ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE WHITE TRIM
Light Source: (1) D2W LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 659.4 lumens
Efficiency: N/A
Efficacy: 69.4 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

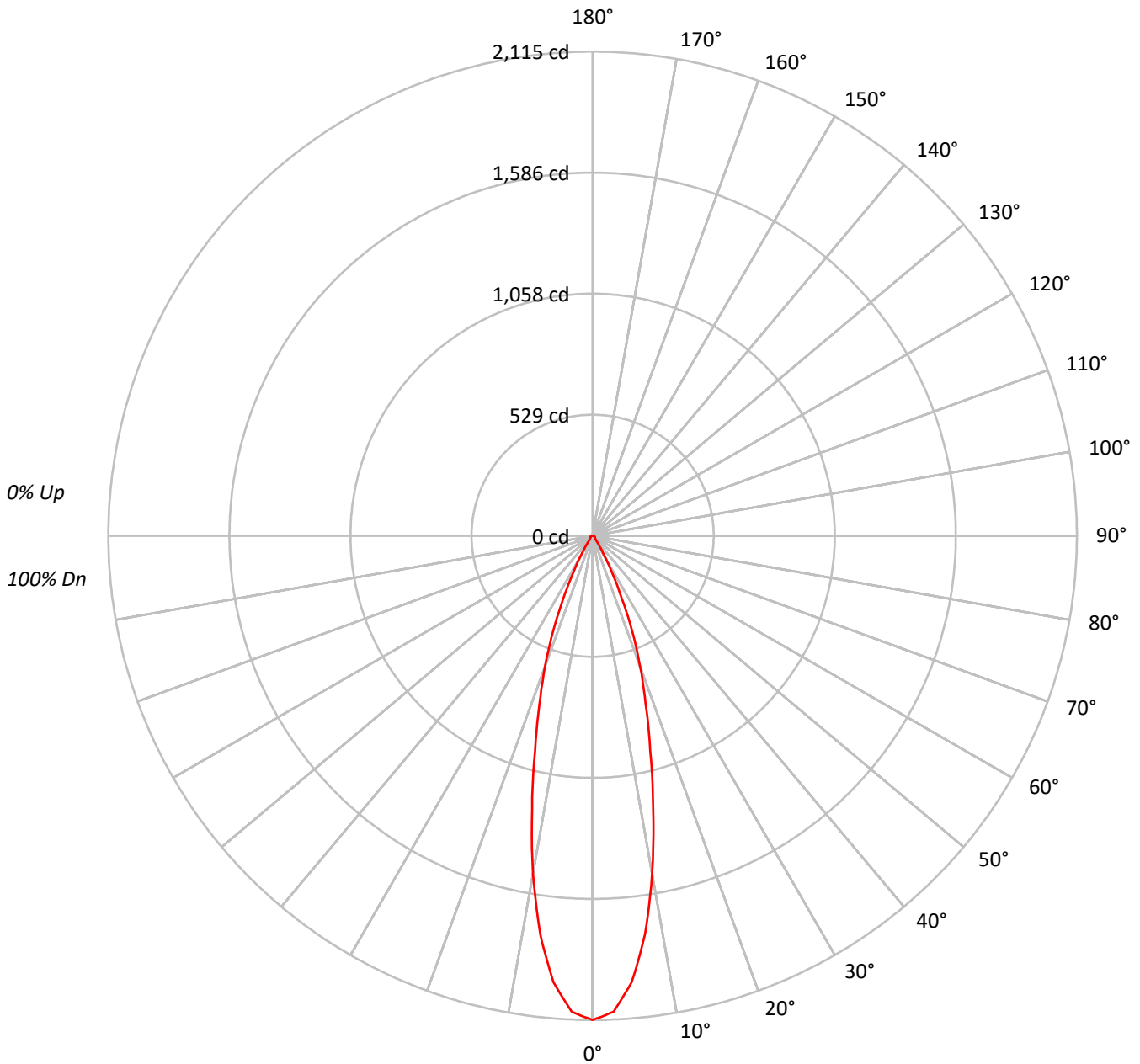
Input Watts (W): 9.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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			
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	94	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	70	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°	463801
5°	430882
10°	333572
15°	220478
20°	141342
25°	72730
30°	29372
35°	10788
40°	5238
45°	4683
50°	4503
55°	4817
60°	4956
65°	5241
70°	5257
75°	5338
80°	4799
85°	4780

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 82.5°
 Luminance: 5376 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.0	26.1
10°-20°	271.7	41.2
20°-30°	144.1	21.9
30°-40°	30.3	4.6
40°-50°	11.9	1.8
50°-60°	11.2	1.7
60°-70°	9.7	1.5
70°-80°	6.4	1.0
80°-90°	2.1	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°	587.7	89.1
0°-40°	618.0	93.7
0°-60°	641.2	97.2
0°-90°	659.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	659.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2115	
5°	1958	172
15°	971	272
25°	301	144
35°	40	30
45°	15	12
55°	13	11
65°	10	10
75°	6	6
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2115.1
2.5°	2081.7
5°	1957.5
7.5°	1754.6
10°	1498.1
12.5°	1222.0
15°	971.2
17.5°	770.8
20°	605.7
22.5°	450.0
25°	300.6
27.5°	192.2
30°	116.0
32.5°	69.3
35°	40.3
37.5°	23.9
40°	18.3
42.5°	16.4
45°	15.1
47.5°	14.5
50°	13.2
52.5°	13.2
55°	12.6
57.5°	12.0
60°	11.3
62.5°	10.7
65°	10.1
67.5°	8.8
70°	8.2
72.5°	6.9
75°	6.3
77.5°	5.0
80°	3.8
82.5°	3.2
85°	1.9
87.5°	0.6
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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