

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: P886811

Luminaire Tested: ML310LSFLD2W1E-TIR4D55WFL-TL3RDMW-600LM-3000K

Issue Date: 7/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P886811
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: ML310LSFLD2W1E-TIR4D55WFL-TL3RDMW-600LM-3000K
Description: 3IN ROUND ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE WHITE TRIM
Light Source: (1) D2W LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

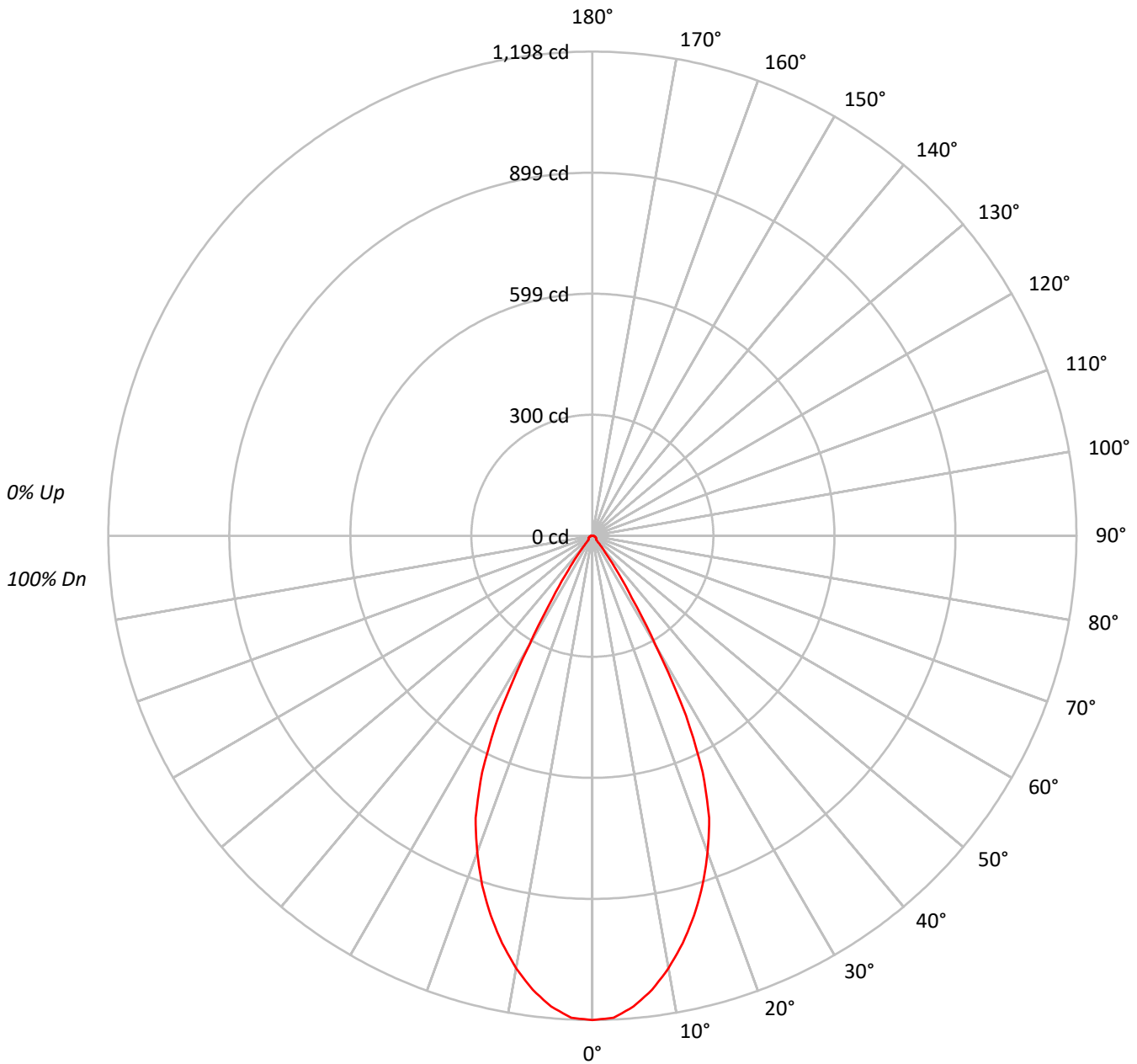
Lumens per Lamp: N/A
Luminaire Lumens: 774.3 lumens
Efficiency: N/A
Efficacy: 81.5 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.82 / 0.76
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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									
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																			
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	82	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°	262764
5°	257384
10°	241857
15°	220819
20°	194524
25°	156251
30°	79202
35°	27492
40°	8502
45°	4186
50°	4162
55°	4396
60°	4429
65°	4566
70°	4744
75°	4575
80°	4293
85°	3522

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 77.5°
 Luminance: 4762 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.0	14.1
10°-20°	270.7	35.0
20°-30°	279.5	36.1
30°-40°	76.9	9.9
40°-50°	12.0	1.6
50°-60°	10.1	1.3
60°-70°	8.7	1.1
70°-80°	5.7	0.7
80°-90°	1.8	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°	659.1	85.1
0°-40°	736.1	95.1
0°-60°	758.1	97.9
0°-90°	774.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	774.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1198	
5°	1169	109
15°	973	271
25°	646	279
35°	103	77
45°	14	12
55°	12	10
65°	9	9
75°	5	6
85°	1	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1198.3
2.5°	1193.6
5°	1169.3
7.5°	1132.8
10°	1086.2
12.5°	1032.2
15°	972.7
17.5°	906.5
20°	833.6
22.5°	755.2
25°	645.8
27.5°	501.2
30°	312.8
32.5°	182.4
35°	102.7
37.5°	54.7
40°	29.7
42.5°	15.5
45°	13.5
47.5°	12.8
50°	12.2
52.5°	11.5
55°	11.5
57.5°	10.8
60°	10.1
62.5°	9.5
65°	8.8
67.5°	8.1
70°	7.4
72.5°	6.1
75°	5.4
77.5°	4.7
80°	3.4
82.5°	2.7
85°	1.4
87.5°	0.7
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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