

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: P886810

Luminaire Tested: ML310LSFLD2W1E-TIR4D55WFL-TL3RDMW-600LM-2700K

Issue Date: 7/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P886810
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-2700K
Description: 3IN ROUND ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE WHITE TRIM
Light Source: (1) D2W LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

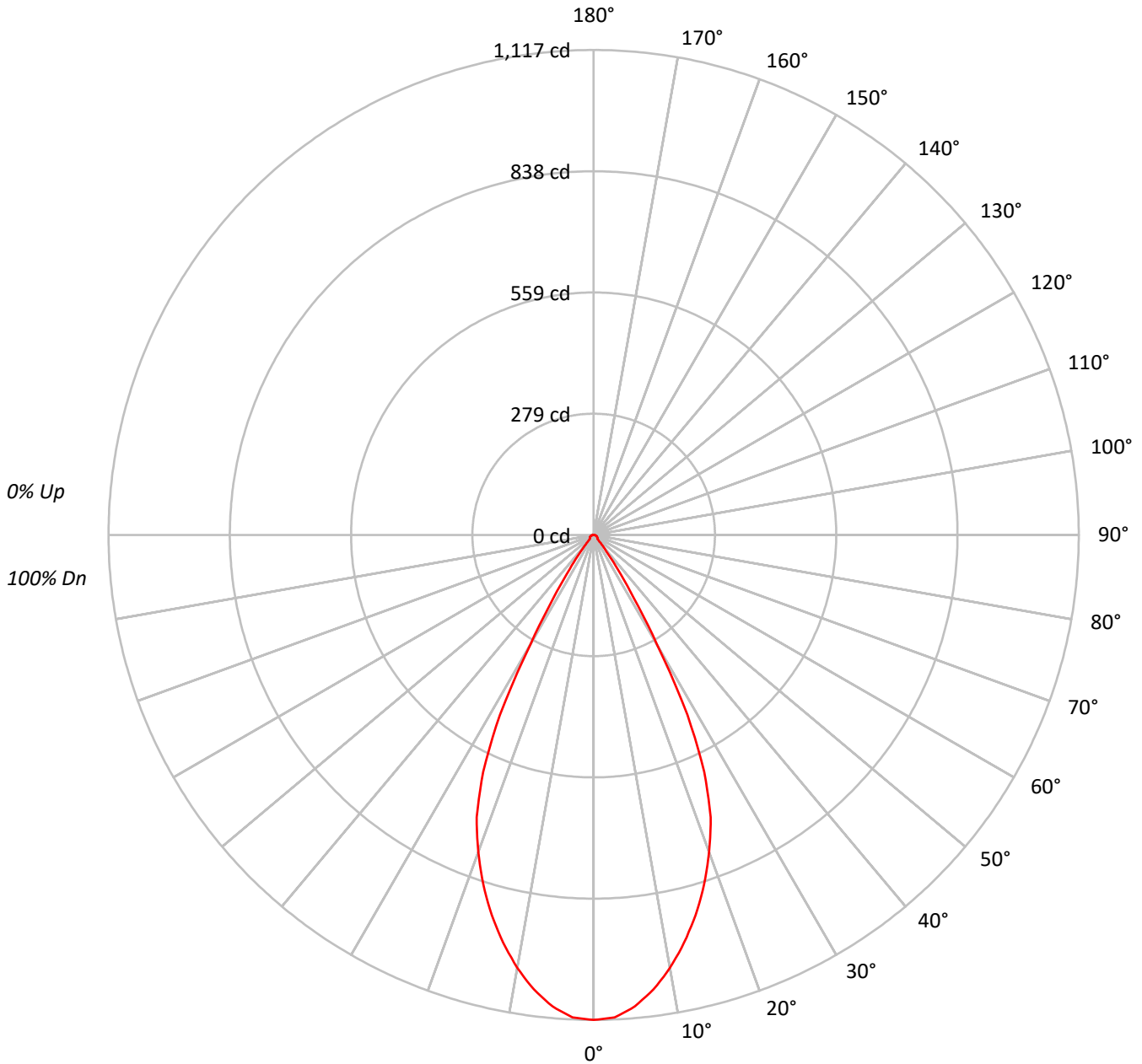
Lumens per Lamp: N/A
Luminaire Lumens: 721.7 lumens
Efficiency: N/A
Efficacy: 76.0 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.82 / 0.76
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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				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	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	83	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°	244937
5°	239929
10°	225447
15°	205835
20°	181316
25°	145654
30°	73809
35°	25618
40°	7929
45°	3907
50°	3855
55°	4091
60°	4122
65°	4255
70°	4424
75°	4236
80°	3915
85°	3271

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 77.5°
 Luminance: 4458 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.6	14.1
10°-20°	252.3	35.0
20°-30°	260.5	36.1
30°-40°	71.7	9.9
40°-50°	11.2	1.6
50°-60°	9.4	1.3
60°-70°	8.1	1.1
70°-80°	5.3	0.7
80°-90°	1.6	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°	614.4	85.1
0°-40°	686.1	95.1
0°-60°	706.7	97.9
0°-90°	721.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	721.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1117	
5°	1090	102
15°	907	252
25°	602	261
35°	96	72
45°	13	11
55°	11	9
65°	8	8
75°	5	5
85°	1	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1117.0
2.5°	1112.6
5°	1090.0
7.5°	1056.0
10°	1012.5
12.5°	962.1
15°	906.7
17.5°	845.0
20°	777.0
22.5°	704.0
25°	602.0
27.5°	467.2
30°	291.5
32.5°	170.0
35°	95.7
37.5°	51.0
40°	27.7
42.5°	14.5
45°	12.6
47.5°	12.0
50°	11.3
52.5°	10.7
55°	10.7
57.5°	10.1
60°	9.4
62.5°	8.8
65°	8.2
67.5°	7.6
70°	6.9
72.5°	5.7
75°	5.0
77.5°	4.4
80°	3.1
82.5°	2.5
85°	1.3
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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