

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: P886813

Luminaire Tested: ML310LSFLD2W1E-TIR4D55WFL-TL3RDSL-600LM-3000K

Issue Date: 7/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P886813
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-8)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 7/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML310LSFLD2W1E-TIR4D55WFL-TL3RDSL-600LM-3000K
Description: 3IN ROUND ML FLEX, SELECTABLE CCT, WITH 55D TIR, METALLIC SILVER TRIM
Light Source: (1) D2W LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

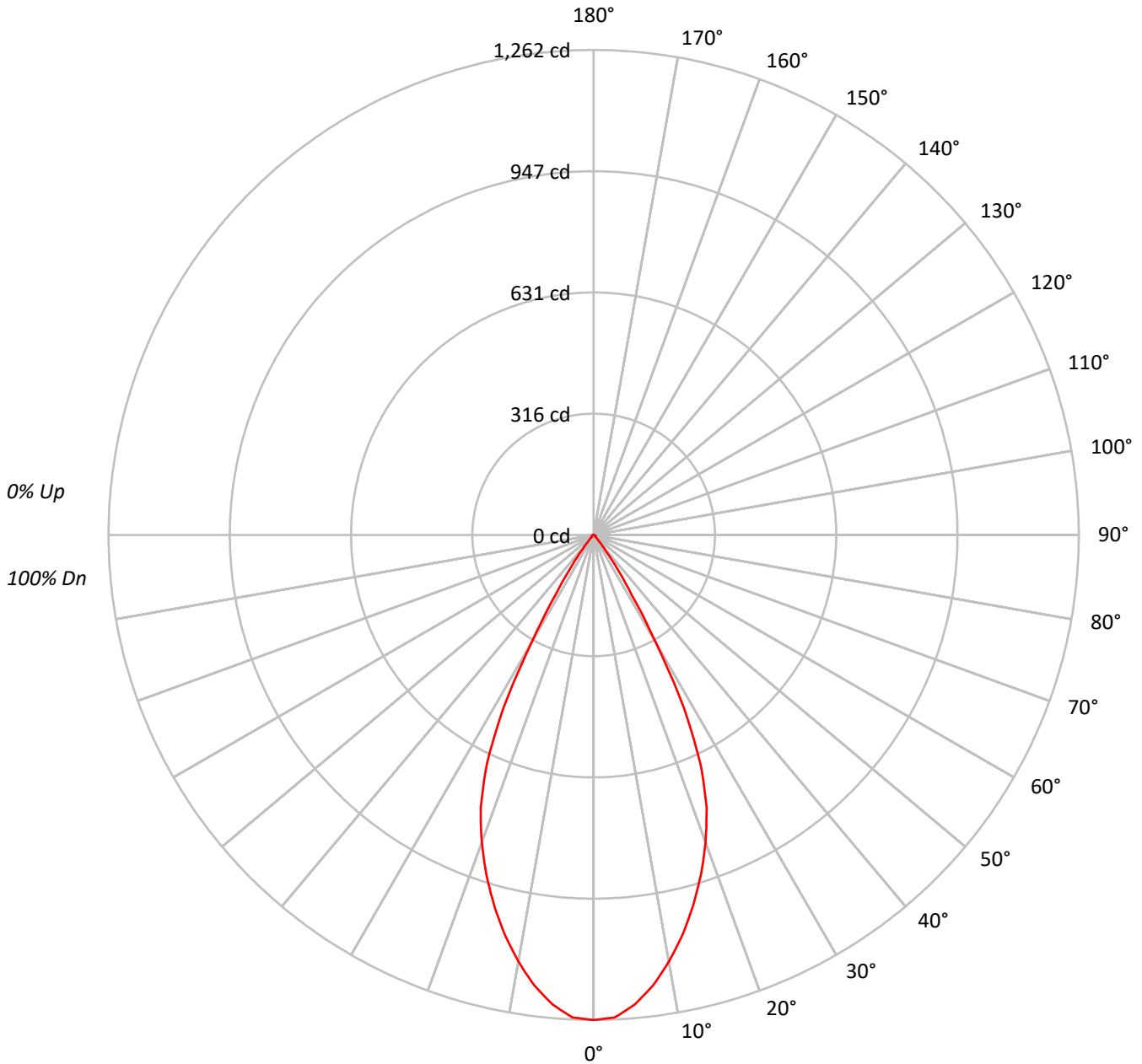
Lumens per Lamp: N/A
Luminaire Lumens: 774.3 lumens
Efficiency: N/A
Efficacy: 81.5 lumens/watt
Spacing Criteria (0/90/45): 0.8 / 0.8 / 0.76
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	107	112	109	107	105	105	104	102	102	100	99	98	97	96	94			
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89			
3	104	99	94	90	102	97	93	90	95	91	88	92	89	87	90	88	86	84			
4	100	93	88	84	98	92	87	84	90	86	83	88	85	82	86	83	81	80			
5	96	88	83	79	94	87	82	79	85	81	78	84	80	77	82	79	77	75			
6	92	84	78	74	90	83	78	74	81	77	74	80	76	73	79	75	73	71			
7	88	79	74	70	86	79	74	70	78	73	70	76	72	69	75	72	69	68			
8	84	76	70	67	83	75	70	67	74	70	66	73	69	66	72	68	66	65			
9	81	72	67	63	80	72	67	63	71	66	63	70	66	63	69	65	63	61			
10	78	69	64	60	77	68	64	60	68	63	60	67	63	60	66	62	60	59			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	276798
5°	269975
10°	250986
15°	226766
20°	198584
25°	159009
30°	81228
35°	26930
40°	7156
45°	2512
50°	2320
55°	2332
60°	2368
65°	2127
70°	2180
75°	2288
80°	2526
85°	1761

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 80°
 Luminance: 2526 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.9	14.7
10°-20°	278.2	35.9
20°-30°	284.5	36.7
30°-40°	76.4	9.9
40°-50°	8.0	1.0
50°-60°	5.3	0.7
60°-70°	4.3	0.6
70°-80°	2.8	0.4
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°	676.6	87.4
0°-40°	753.0	97.2
0°-60°	766.3	99.0
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°	1262	
5°	1226	114
15°	999	278
25°	657	285
35°	101	76
45°	8	8
55°	6	5
65°	4	4
75°	3	3
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1262.3
2.5°	1256.9
5°	1226.5
7.5°	1182.6
10°	1127.2
12.5°	1066.4
15°	998.9
17.5°	927.3
20°	851.0
22.5°	767.2
25°	657.2
27.5°	509.9
30°	320.8
32.5°	183.0
35°	100.6
37.5°	52.0
40°	25.0
42.5°	10.8
45°	8.1
47.5°	7.4
50°	6.8
52.5°	6.1
55°	6.1
57.5°	5.4
60°	5.4
62.5°	4.7
65°	4.1
67.5°	4.1
70°	3.4
72.5°	3.4
75°	2.7
77.5°	2.0
80°	2.0
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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