

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: P886787

Luminaire Tested: ML310LSFLD2W1E-TIR4D25NFL-TL3RDMW-600LM-3000K

Issue Date: 7/18/2024

Test Information

Test Method: LM-79-2019
Report Number: P886787
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-3000K
Description: 3IN ROUND ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE WHITE TRIM
Light Source: (1) D2W LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

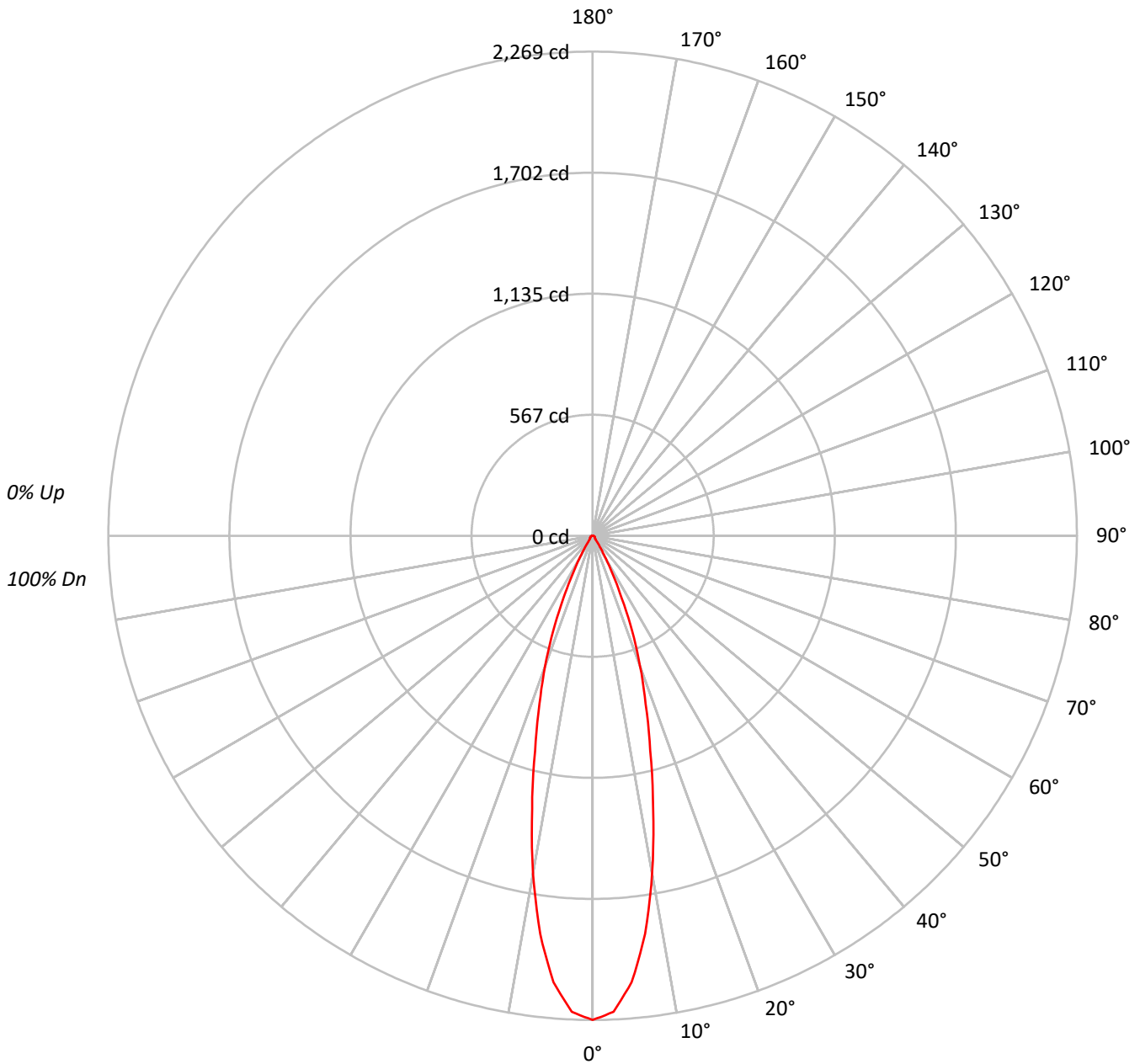
Lumens per Lamp: N/A
Luminaire Lumens: 707.4 lumens
Efficiency: N/A
Efficacy: 74.5 lumens/watt
Spacing Criteria (0/90/45): 0.47 / 0.47 / 0.5
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	93	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	69	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°	497548
5°	462248
10°	357842
15°	236528
20°	151610
25°	78029
30°	31499
35°	11591
40°	5611
45°	5024
50°	4844
55°	5161
60°	5350
65°	5604
70°	5642
75°	5761
80°	5177
85°	5032

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 75°
 Luminance: 5761 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.5	26.1
10°-20°	291.4	41.2
20°-30°	154.6	21.8
30°-40°	32.6	4.6
40°-50°	12.8	1.8
50°-60°	12.0	1.7
60°-70°	10.5	1.5
70°-80°	6.9	1.0
80°-90°	2.2	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°	630.5	89.1
0°-40°	663.0	93.7
0°-60°	687.9	97.2
0°-90°	707.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	707.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2269	
5°	2100	184
15°	1042	291
25°	322	155
35°	43	33
45°	16	13
55°	14	12
65°	11	10
75°	7	7
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2269.0
2.5°	2233.2
5°	2100.0
7.5°	1882.3
10°	1607.1
12.5°	1311.0
15°	1041.9
17.5°	826.9
20°	649.7
22.5°	482.7
25°	322.5
27.5°	206.2
30°	124.4
32.5°	74.4
35°	43.3
37.5°	25.7
40°	19.6
42.5°	17.6
45°	16.2
47.5°	15.6
50°	14.2
52.5°	14.2
55°	13.5
57.5°	12.8
60°	12.2
62.5°	11.5
65°	10.8
67.5°	9.5
70°	8.8
72.5°	7.4
75°	6.8
77.5°	5.4
80°	4.1
82.5°	3.4
85°	2.0
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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