

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: P886792

Luminaire Tested: ML310LSFLD2W1E-TIR4D25NFL-TL3SDMW-600LM-2700K

Issue Date: 7/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P886792
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-13)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 7/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML310LSFLD2W1E-TIR4D25NFL-TL3SDMW-600LM-2700K
Description: 3IN SQUARE ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE WHITE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 2700K CCT
Ballast/Driver: -

Summary

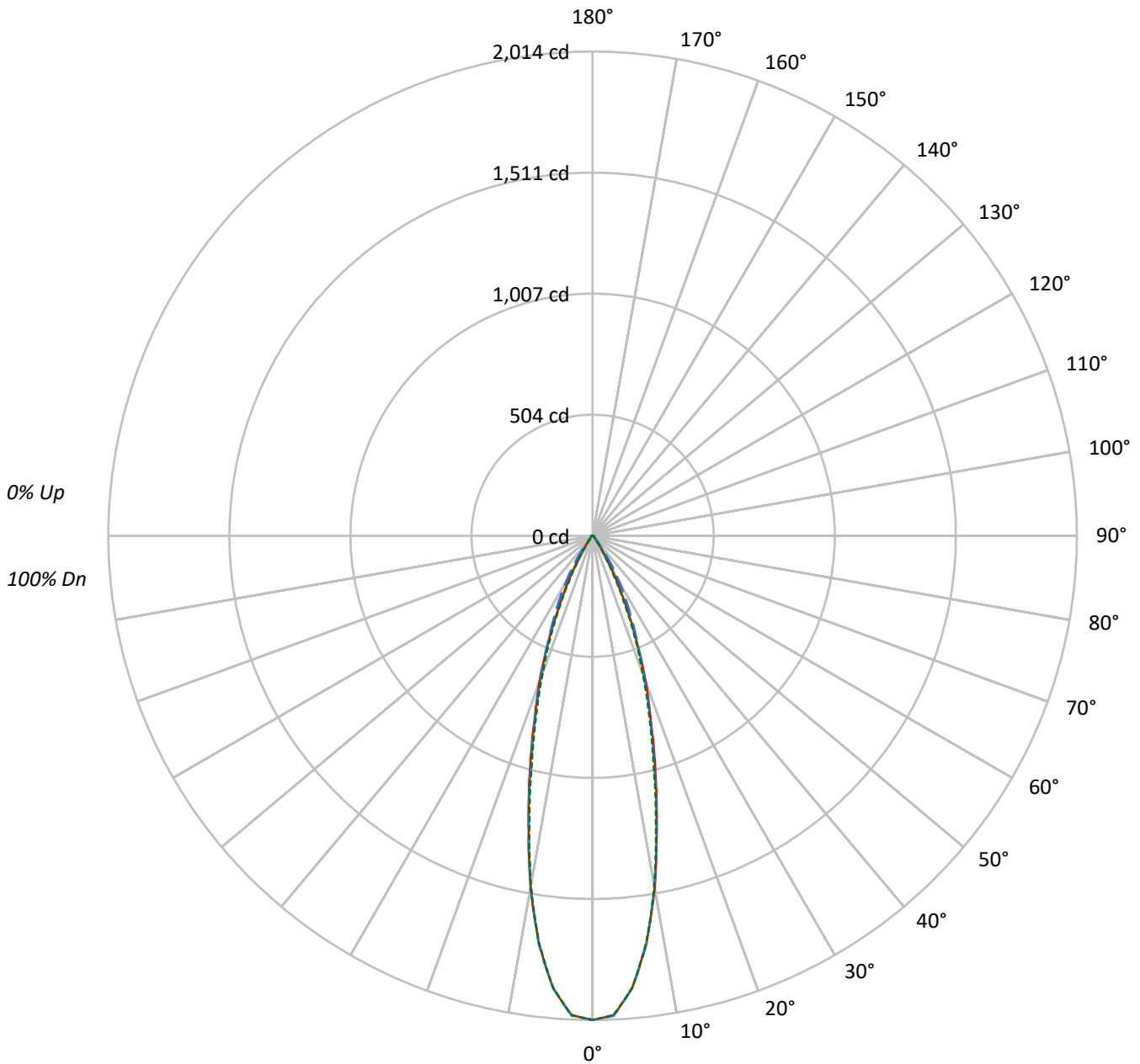
Lumens per Lamp: N/A
Luminaire Lumens: 689.6 lumens
Efficiency: N/A
Efficacy: 72.6 lumens/watt
Spacing Criteria (0/90/45): 0.5 / 0.49 / 0.52
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')

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	112	110	108	112	110	108	106	106	104	103	102	101	100	98	98	97	95																			
2	110	105	102	99	107	104	101	98	101	98	96	98	96	94	95	93	92	90																			
3	105	100	96	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	85	83	82																			
5	97	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	78																			
6	94	87	82	78	93	86	81	78	84	80	77	83	80	77	82	79	76	75																			
7	91	83	78	75	89	82	78	74	81	77	74	80	76	74	79	76	73	72																			
8	87	80	75	71	86	79	75	71	78	74	71	77	74	71	76	73	71	69																			
9	85	77	72	69	84	76	72	69	75	71	68	75	71	68	74	70	68	67																			
10	82	74	69	66	81	74	69	66	73	69	66	72	68	66	71	68	65	64																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	346805	346805	346805
5°	326468	326468	326260
10°	260098	258996	258454
15°	179742	176372	173805
20°	118414	115757	111248
25°	64495	73103	61151
30°	28796	43830	24918
35°	9924	19469	8746
40°	3687	8498	3687
45°	2923	3824	2923
50°	2519	3028	2519
55°	2642	2822	2642
60°	2618	2824	2618
65°	2567	2812	2812
70°	2518	2870	2870
75°	2529	2529	2928
80°	2479	2479	3075
85°	2569	2569	2569

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 3824 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.0	24.2
10°-20°	275.7	40.0
20°-30°	167.8	24.3
30°-40°	47.2	6.9
40°-50°	11.2	1.6
50°-60°	8.2	1.2
60°-70°	6.8	1.0
70°-80°	4.3	0.6
80°-90°	1.4	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°	610.5	88.5
0°-40°	657.8	95.4
0°-60°	677.1	98.2
0°-90°	689.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	689.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2014	2014	2014	2014	2014	
5°	1888	1889	1888	1888	1887	167
15°	1008	999	989	984	975	279
25°	339	371	385	358	322	161
35°	47	66	93	59	42	36
45°	12	13	16	13	12	9
55°	9	9	9	9	9	8
65°	6	7	7	7	7	6
75°	4	4	4	4	4	4
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2013.7	2013.7	2013.7	2013.7	2013.7
2.5°	1996.1	1995.5	1998.6	1996.7	1996.1
5°	1888.4	1889.1	1888.4	1888.4	1887.2
7.5°	1710.2	1707.7	1713.4	1708.3	1707.7
10°	1487.3	1481.0	1481.0	1476.0	1477.9
12.5°	1228.5	1233.6	1232.3	1221.0	1215.3
15°	1008.1	998.7	989.2	984.2	974.8
17.5°	801.6	802.2	794.7	782.7	780.2
20°	646.1	636.0	631.6	623.4	607.0
22.5°	485.5	503.1	493.0	484.9	462.2
25°	339.4	370.9	384.7	358.3	321.8
27.5°	233.0	251.9	297.2	243.1	210.3
30°	144.8	173.2	220.4	160.6	125.3
32.5°	86.3	109.6	153.0	99.5	74.9
35°	47.2	66.1	92.6	59.2	41.6
37.5°	24.6	36.5	57.9	34.0	23.3
40°	16.4	20.8	37.8	19.5	16.4
42.5°	13.2	15.1	23.9	14.5	13.2
45°	12.0	12.6	15.7	12.6	12.0
47.5°	10.7	11.3	12.0	11.3	10.7
50°	9.4	10.7	11.3	10.7	9.4
52.5°	9.4	9.4	10.1	9.4	9.4
55°	8.8	8.8	9.4	8.8	8.8
57.5°	8.2	8.8	8.8	8.8	8.2
60°	7.6	8.2	8.2	8.2	7.6
62.5°	6.9	7.6	7.6	7.6	7.6
65°	6.3	6.9	6.9	6.9	6.9
67.5°	5.7	6.3	6.3	6.3	6.3
70°	5.0	5.7	5.7	5.7	5.7
72.5°	4.4	5.0	5.0	5.0	5.0
75°	3.8	3.8	3.8	4.4	4.4
77.5°	3.1	3.1	3.1	3.8	3.8
80°	2.5	2.5	2.5	3.1	3.1
82.5°	1.9	1.9	1.9	1.9	1.9
85°	1.3	1.3	1.3	1.3	1.3
87.5°	0.6	0.6	0.6	0.6	0.6
90°	0.0	0.0	0.0	0.0	0.0

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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