

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: P886807

Luminaire Tested: ML310LSFLD2W1E-TIR4D40FL-TL3SDSL-600LM-3000K

Issue Date: 7/8/2024

Test Information

Test Method: LM-79-2019
Report Number: P886807
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 7/8/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML310LSFLD2W1E-TIR4D40FL-TL3SDSL-600LM-3000K
Description: 3IN SQUARE ML FLEX, SELECTABLE CCT, WITH 40D TIR, METALLIC SILVER TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 858.1 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.67 / 0.65
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

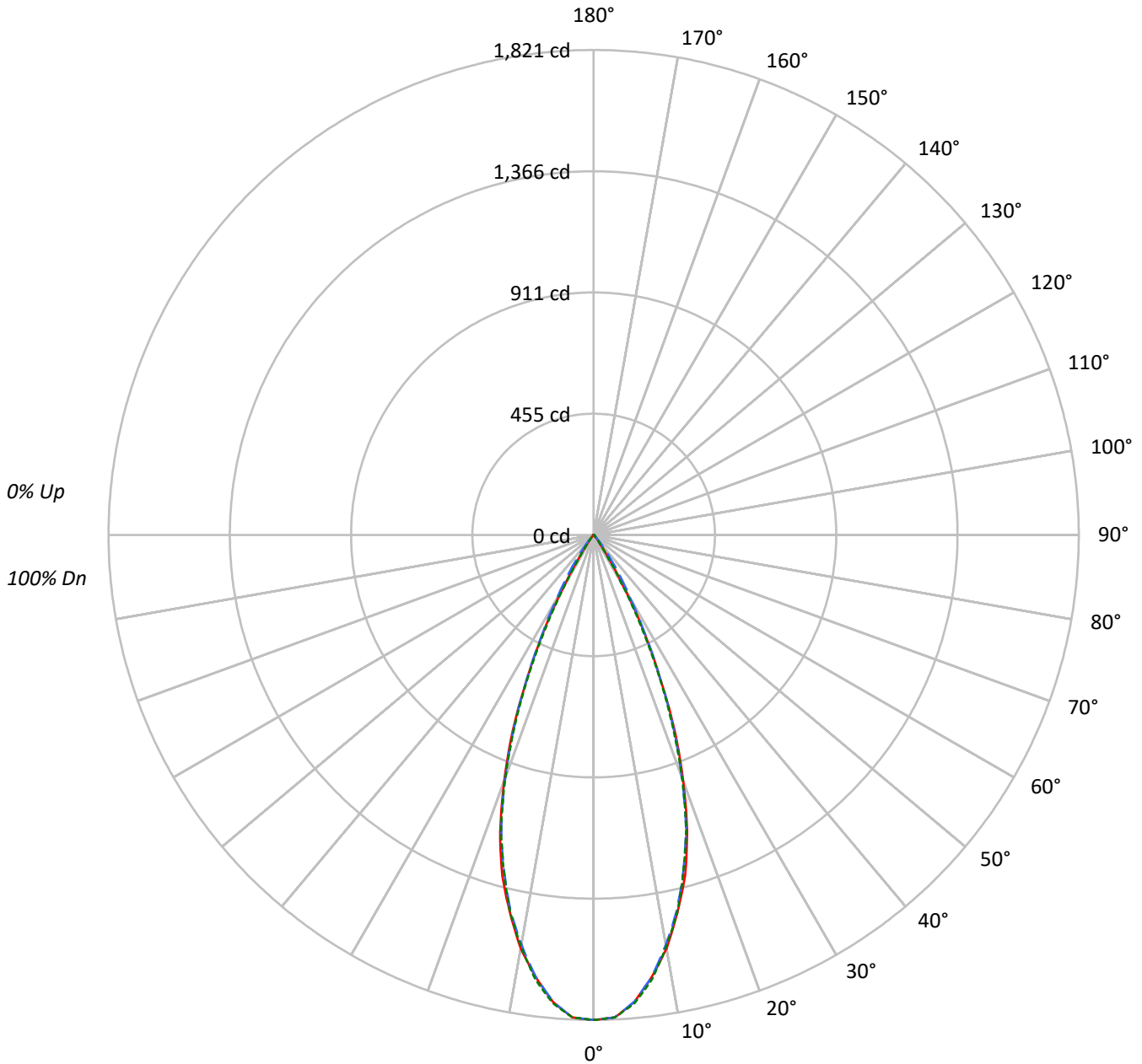
Input Watts (W): 9.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	99	98	97	95																			
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	94	92	91																			
3	105	100	96	93	104	99	95	92	96	93	90	94	91	89	92	89	88	86																			
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	83	82																			
5	97	90	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	78																			
6	94	86	81	78	92	86	81	78	84	80	77	83	79	77	82	79	76	75																			
7	90	83	78	74	89	82	77	74	81	77	74	80	76	73	79	75	73	72																			
8	87	79	74	71	86	79	74	71	78	73	70	77	73	70	76	72	70	69																			
9	84	76	71	68	83	75	71	68	74	70	67	74	70	67	73	69	67	66																			
10	81	73	68	65	80	72	68	65	72	67	65	71	67	64	70	67	64	63																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	313635	313635	313635
5°	304183	303959	305134
10°	275680	273197	274368
15°	236352	232251	232376
20°	180013	177539	177906
25°	110729	111109	108676
30°	45023	55245	41125
35°	9671	24451	9230
40°	3192	7914	3350
45°	1486	2801	1486
50°	1099	1447	1099
55°	1021	1231	1021
60°	930	1171	930
65°	815	1100	1100
70°	1007	1007	1007
75°	932	932	932
80°	694	694	1389
85°	1383	1383	1383

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 2801 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.8	18.8
10°-20°	359.0	41.8
20°-30°	265.2	30.9
30°-40°	57.0	6.6
40°-50°	7.3	0.9
50°-60°	3.3	0.4
60°-70°	2.5	0.3
70°-80°	1.6	0.2
80°-90°	0.5	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°	785.9	91.6
0°-40°	843.0	98.2
0°-60°	853.6	99.5
0°-90°	858.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	858.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1821	1821	1821	1821	1821	
5°	1760	1758	1758	1758	1765	162
15°	1326	1313	1303	1307	1303	362
25°	583	590	585	582	572	266
35°	46	66	116	59	44	45
45°	6	7	12	7	6	5
55°	3	3	4	3	3	3
65°	2	3	3	3	3	2
75°	1	1	1	1	1	1
85°	1	1	1	1	1	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1821.1	1821.1	1821.1	1821.1	1821.1
2.5°	1813.6	1812.9	1813.6	1814.3	1813.6
5°	1759.5	1758.2	1758.2	1757.5	1765.0
7.5°	1673.0	1673.7	1672.3	1677.1	1681.8
10°	1576.4	1564.2	1562.2	1571.0	1568.9
12.5°	1452.0	1452.7	1442.5	1445.2	1450.0
15°	1325.6	1313.4	1302.6	1306.6	1303.3
17.5°	1167.4	1161.3	1152.5	1153.2	1155.2
20°	982.2	983.5	968.7	974.1	970.7
22.5°	793.6	784.1	780.7	774.7	771.3
25°	582.7	590.1	584.7	582.0	571.9
27.5°	405.6	406.9	413.7	399.5	377.9
30°	226.4	252.1	277.8	239.3	206.8
32.5°	108.8	135.2	185.2	125.1	96.0
35°	46.0	66.2	116.3	58.8	43.9
37.5°	24.3	31.8	64.9	29.7	23.0
40°	14.2	17.6	35.2	17.6	14.9
42.5°	8.1	10.8	19.6	10.8	8.8
45°	6.1	6.8	11.5	6.8	6.1
47.5°	4.7	5.4	6.8	5.4	4.7
50°	4.1	4.1	5.4	4.1	4.1
52.5°	3.4	4.1	4.1	4.1	4.1
55°	3.4	3.4	4.1	3.4	3.4
57.5°	3.4	3.4	3.4	3.4	3.4
60°	2.7	2.7	3.4	3.4	2.7
62.5°	2.7	2.7	2.7	2.7	2.7
65°	2.0	2.7	2.7	2.7	2.7
67.5°	2.0	2.0	2.7	2.0	2.0
70°	2.0	2.0	2.0	2.0	2.0
72.5°	1.4	1.4	2.0	2.0	2.0
75°	1.4	1.4	1.4	1.4	1.4
77.5°	0.7	1.4	1.4	1.4	1.4
80°	0.7	0.7	0.7	1.4	1.4
82.5°	0.7	0.7	0.7	0.7	0.7
85°	0.7	0.7	0.7	0.7	0.7
87.5°	0.0	0.0	0.0	0.0	0.0
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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