

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: P886573

Luminaire Tested: ML310LSFL95FS1E-TIR4D25NFL-TL3SDMW-850LM-3000K

Issue Date: 7/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P886573
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: ML310LSFL95FS1E-TIR4D25NFL-TL3SDMW-850LM-3000K
Description: 3IN SQUARE ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE WHITE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1030.5 lumens
Efficiency: N/A
Efficacy: 75.8 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')

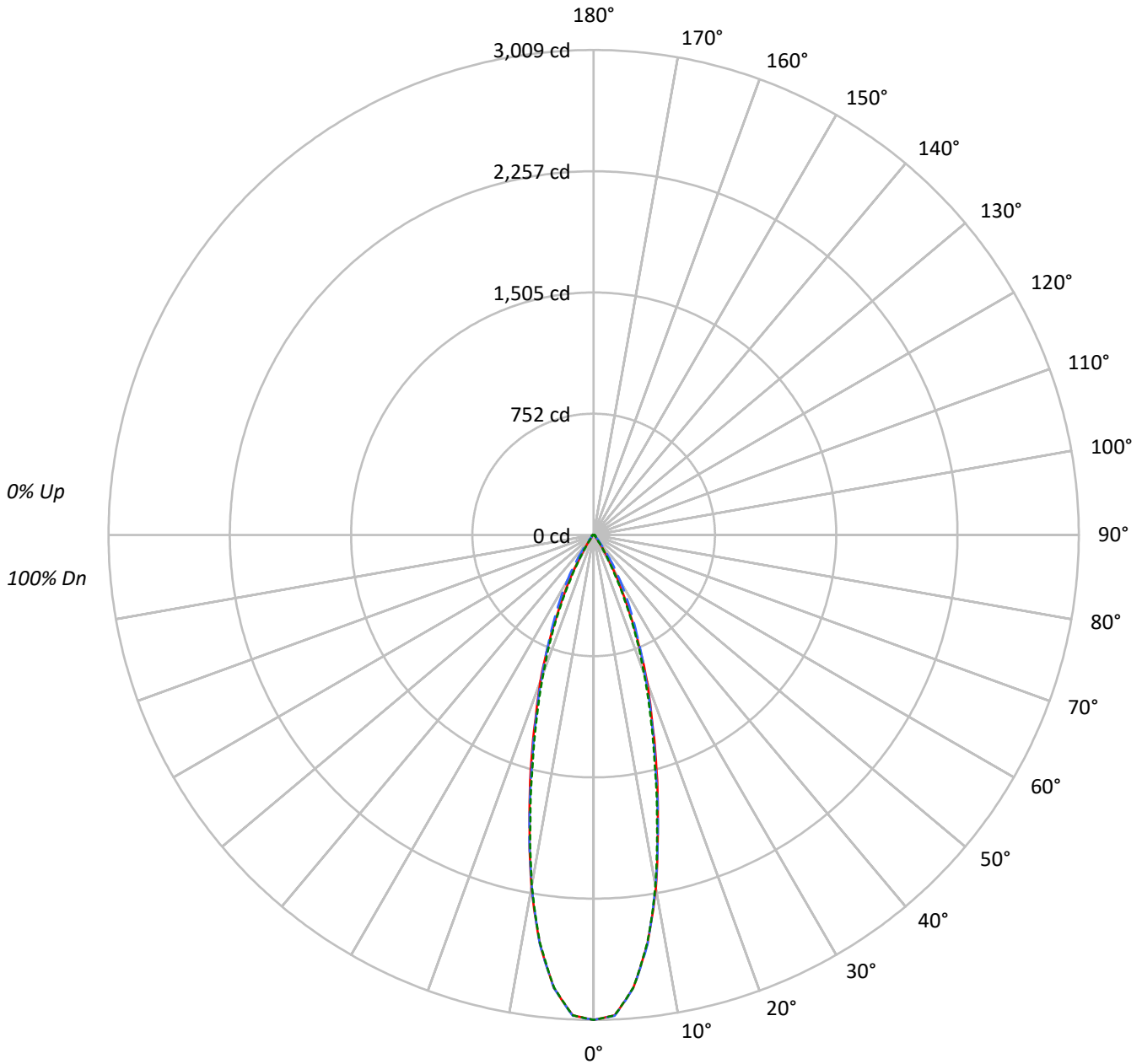
CIE Type: Direct

Input Watts (W): 13.6
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					70					50					30				
RW	70	50	30	10	70	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°	518235	518235	518235
5°	487851	487851	487523
10°	388670	387026	386204
15°	268588	263560	259709
20°	176934	172975	166249
25°	96382	109246	91365
30°	43035	65486	37228
35°	14843	29077	13056
40°	5508	12702	5508
45°	4360	5724	4360
50°	3778	4528	3778
55°	3963	4234	3963
60°	3892	4202	3892
65°	3831	4238	4238
70°	3777	4280	4280
75°	3726	3726	4392
80°	3769	3769	4661
85°	3754	3754	3754

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 5724 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.6	24.2
10°-20°	412.0	40.0
20°-30°	250.7	24.3
30°-40°	70.6	6.8
40°-50°	16.7	1.6
50°-60°	12.2	1.2
60°-70°	10.1	1.0
70°-80°	6.5	0.6
80°-90°	2.1	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°	912.3	88.5
0°-40°	982.9	95.4
0°-60°	1011.8	98.2
0°-90°	1030.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1030.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3009	3009	3009	3009	3009	
5°	2822	2823	2822	2822	2820	250
15°	1506	1492	1478	1471	1457	416
25°	507	554	575	535	481	241
35°	71	99	138	88	62	54
45°	18	19	24	19	18	14
55°	13	13	14	13	13	12
65°	9	10	10	10	10	9
75°	6	6	6	7	7	6
85°	2	2	2	2	2	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3009.1	3009.1	3009.1	3009.1	3009.1
2.5°	2982.8	2981.8	2986.5	2983.7	2982.8
5°	2821.9	2822.8	2821.9	2821.9	2820.0
7.5°	2555.6	2551.8	2560.3	2552.7	2551.8
10°	2222.5	2213.1	2213.1	2205.5	2208.4
12.5°	1835.8	1843.3	1841.4	1824.5	1816.0
15°	1506.4	1492.3	1478.2	1470.7	1456.6
17.5°	1197.8	1198.7	1187.5	1169.6	1165.8
20°	965.4	950.3	943.8	931.5	907.1
22.5°	725.5	751.8	736.7	724.5	690.6
25°	507.2	554.2	574.9	535.4	480.8
27.5°	348.1	376.4	444.1	363.2	314.3
30°	216.4	258.8	329.3	239.9	187.2
32.5°	128.9	163.7	228.6	148.7	112.0
35°	70.6	98.8	138.3	88.4	62.1
37.5°	36.7	54.6	86.6	50.8	34.8
40°	24.5	31.1	56.5	29.2	24.5
42.5°	19.8	22.6	35.8	21.6	19.8
45°	17.9	18.8	23.5	18.8	17.9
47.5°	16.0	16.9	17.9	16.9	16.0
50°	14.1	16.0	16.9	16.0	14.1
52.5°	14.1	14.1	15.1	14.1	14.1
55°	13.2	13.2	14.1	13.2	13.2
57.5°	12.2	13.2	13.2	13.2	12.2
60°	11.3	12.2	12.2	12.2	11.3
62.5°	10.4	11.3	11.3	11.3	11.3
65°	9.4	10.4	10.4	10.4	10.4
67.5°	8.5	9.4	9.4	9.4	9.4
70°	7.5	8.5	8.5	8.5	8.5
72.5°	6.6	7.5	7.5	7.5	7.5
75°	5.6	5.6	5.6	6.6	6.6
77.5°	4.7	4.7	4.7	5.6	5.6
80°	3.8	3.8	3.8	4.7	4.7
82.5°	2.8	2.8	2.8	2.8	2.8
85°	1.9	1.9	1.9	1.9	1.9
87.5°	0.9	0.9	0.9	0.9	0.9
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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