

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: P886816

Luminaire Tested: ML310LSFLD2W1E-TIR4D55WFL-TL3SDMW-600LM-2700K

Issue Date: 7/8/2024

Test Information

Test Method: LM-79-2019
Report Number: P886816
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-19)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 7/8/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML310LSFLD2W1E-TIR4D55WFL-TL3SDMW-600LM-2700K
Description: 3IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE WHITE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 5000K CCT
Ballast/Driver: -

Summary

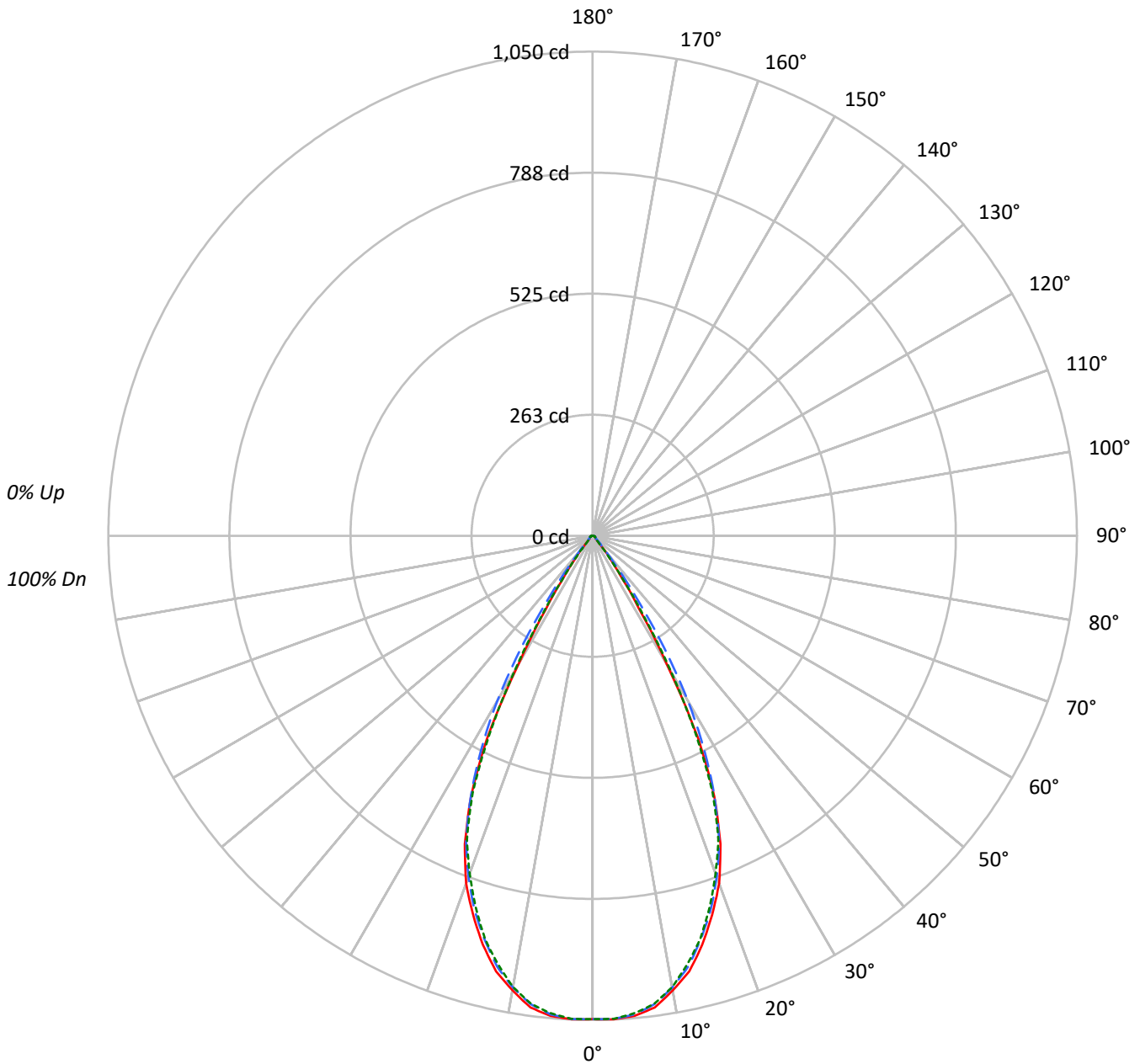
Lumens per Lamp: N/A
Luminaire Lumens: 752.0 lumens
Efficiency: N/A
Efficacy: 79.2 lumens/watt
Spacing Criteria (0/90/45): 0.87 / 0.86 / 0.82
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94																			
2	109	104	100	97	106	102	99	96	99	96	94	96	94	92	93	92	90	88																			
3	104	98	93	89	102	96	92	89	94	90	87	91	88	86	89	87	84	83																			
4	99	92	87	83	97	91	86	82	89	85	81	87	83	80	85	82	80	78																			
5	94	87	81	77	93	86	81	77	84	80	76	82	79	76	81	78	75	74																			
6	90	82	77	73	89	81	76	72	80	75	72	78	74	71	77	74	71	70																			
7	86	78	72	68	85	77	72	68	76	71	68	75	71	67	74	70	67	66																			
8	83	74	68	64	81	73	68	64	72	67	64	71	67	64	70	66	64	62																			
9	79	70	65	61	78	70	65	61	69	64	61	68	64	61	67	63	60	59																			
10	76	67	61	58	75	66	61	58	66	61	58	65	61	58	64	60	57	56																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	180541	180541	180541
5°	180677	180141	179709
10°	175054	173953	173743
15°	163767	161520	161074
20°	146987	144201	142827
25°	118634	118881	116961
30°	63776	82191	67276
35°	21844	36288	22791
40°	6655	10207	5531
45°	2289	4457	2460
50°	2197	2519	2197
55°	2282	2462	2282
60°	2377	2377	2377
65°	2323	2323	2323
70°	2216	2216	2518
75°	2063	2529	2529
80°	1884	2479	2479
85°	2569	2569	2569

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 4457 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.0	13.0
10°-20°	253.1	33.7
20°-30°	276.0	36.7
30°-40°	95.0	12.6
40°-50°	12.0	1.6
50°-60°	6.9	0.9
60°-70°	5.7	0.8
70°-80°	3.7	0.5
80°-90°	1.3	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°	627.2	83.4
0°-40°	722.2	96.0
0°-60°	741.2	98.6
0°-90°	752.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	752.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1048	1048	1048	1048	1048	
5°	1045	1044	1042	1040	1040	98
15°	918	917	906	906	903	256
25°	624	629	626	622	616	272
35°	104	113	173	116	108	79
45°	9	11	18	11	10	10
55°	8	8	8	8	8	7
65°	6	6	6	6	6	6
75°	3	3	4	4	4	3
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°	1048.3	1048.3	1048.3	1048.3	1048.3
2.5°	1049.5	1049.5	1048.9	1048.9	1048.3
5°	1045.1	1043.9	1042.0	1039.5	1039.5
7.5°	1031.9	1028.1	1025.0	1023.7	1023.7
10°	1001.0	1001.7	994.7	991.6	993.5
12.5°	967.6	962.6	956.9	953.8	950.6
15°	918.5	916.6	905.9	905.9	903.4
17.5°	861.8	861.2	851.1	847.9	843.5
20°	802.0	793.8	786.8	784.9	779.3
22.5°	723.8	718.8	716.9	714.4	711.9
25°	624.3	629.3	625.6	621.8	615.5
27.5°	497.0	516.6	524.8	514.7	484.4
30°	320.7	376.1	413.3	373.6	338.3
32.5°	187.1	222.4	288.5	228.7	204.1
35°	103.9	113.4	172.6	116.5	108.4
37.5°	58.0	62.4	88.2	59.2	55.4
40°	29.6	34.0	45.4	32.1	24.6
42.5°	13.9	19.5	27.7	16.4	13.2
45°	9.4	11.3	18.3	10.7	10.1
47.5°	8.8	9.4	12.6	9.4	8.8
50°	8.2	8.2	9.4	8.2	8.2
52.5°	7.6	8.2	8.2	8.2	7.6
55°	7.6	7.6	8.2	7.6	7.6
57.5°	6.9	7.6	7.6	7.6	6.9
60°	6.9	6.9	6.9	6.9	6.9
62.5°	6.3	6.3	6.3	6.3	6.3
65°	5.7	5.7	5.7	6.3	5.7
67.5°	5.0	5.0	5.0	5.7	5.0
70°	4.4	4.4	4.4	5.0	5.0
72.5°	3.8	3.8	4.4	4.4	4.4
75°	3.1	3.1	3.8	3.8	3.8
77.5°	2.5	2.5	3.1	3.1	3.1
80°	1.9	2.5	2.5	2.5	2.5
82.5°	1.3	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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