

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: P886815

Luminaire Tested: ML310LSFLD2W1E-TIR4D55WFL-TL3SDMB-600LM-3000K

Issue Date: 7/8/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P886815  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-21)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 7/8/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML310LSFLD2W1E-TIR4D55WFL-TL3SDMB-600LM-3000K  
Description: 3IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE BLACK TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

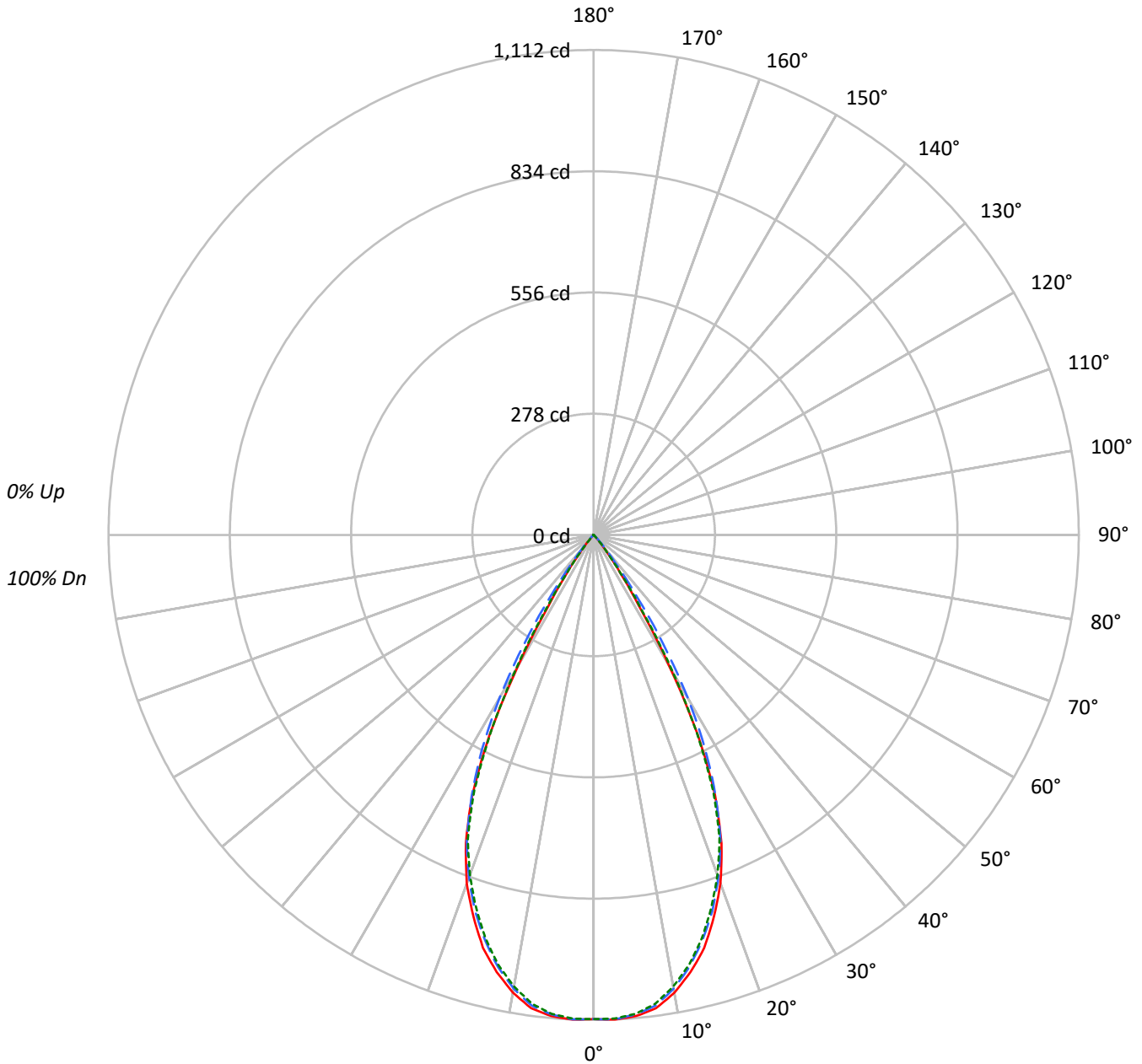
Lumens per Lamp: N/A  
Luminaire Lumens: 767.5 lumens  
Efficiency: N/A  
Efficacy: 80.8 lumens/watt  
Spacing Criteria (0/90/45): 0.87 / 0.86 / 0.82  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 9.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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					10					0
RW	70	50	30	10	70	50	30	10	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	100	100	100	100	100		
	1	114	112	109	107	112	109	107	106	105	104	102	102	100	99	98	97	96	95	95	95	95	95	95		
	2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	89	89	89	89	89	89		
	3	104	99	94	91	103	97	93	90	95	91	89	92	90	87	90	88	86	84	84	84	84	84	84		
	4	100	93	88	85	98	92	88	84	90	86	83	88	85	82	86	84	81	80	80	80	80	80	80		
	5	96	88	83	79	94	87	82	79	86	81	78	84	80	77	82	79	77	75	75	75	75	75	75		
	6	92	84	78	74	90	83	78	74	81	77	74	80	76	73	79	75	73	71	71	71	71	71	71		
	7	88	79	74	70	86	79	74	70	77	73	70	76	72	69	75	72	69	68	68	68	68	68	68		
	8	84	75	70	66	83	75	70	66	74	69	66	73	69	66	72	68	65	64	64	64	64	64	64		
	9	80	72	66	63	79	71	66	63	70	66	63	70	65	62	69	65	62	61	61	61	61	61	61		
	10	77	68	63	60	76	68	63	60	67	63	60	67	62	59	66	62	59	58	58	58	58	58	58		

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	191219	191219	191219
5°	191482	190791	190549
10°	186369	184725	183781
15°	174714	171576	170738
20°	155803	153090	151972
25°	125076	125722	123023
30°	68410	85751	72029
35°	22013	36520	22601
40°	5171	8970	4249
45°	487	2630	487
50°	188	536	188
55°	0	210	0
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 2630 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.0	13.6
10°-20°	268.7	35.0
20°-30°	291.6	38.0
30°-40°	96.5	12.6
40°-50°	6.4	0.8
50°-60°	0.3	0.0
60°-70°	0.0	0.0
70°-80°	0.0	0.0
80°-90°	0.0	0.0
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°	664.4	86.6
0°-40°	760.9	99.1
0°-60°	767.5	100.0
0°-90°	767.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	767.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1110	1110	1110	1110	1110	
5°	1108	1106	1104	1103	1102	104
15°	980	974	962	960	958	272
25°	658	664	662	657	647	287
35°	105	116	174	117	108	80
45°	2	3	11	3	2	4
55°	0	0	1	0	0	0
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1110.3	1110.3	1110.3	1110.3	1110.3
2.5°	1112.4	1112.4	1111.7	1111.0	1109.7
5°	1107.6	1106.3	1103.6	1102.9	1102.2
7.5°	1094.8	1093.4	1088.7	1084.0	1084.0
10°	1065.7	1065.1	1056.3	1053.6	1050.9
12.5°	1026.5	1023.8	1014.4	1011.0	1009.6
15°	979.9	973.8	962.3	959.6	957.6
17.5°	917.1	914.3	904.2	899.5	896.1
20°	850.1	844.1	835.3	831.9	829.2
22.5°	765.7	762.3	759.6	757.6	753.5
25°	658.2	664.3	661.6	656.9	647.4
27.5°	518.3	544.0	553.5	539.3	512.3
30°	344.0	398.0	431.2	389.9	362.2
32.5°	191.9	225.0	298.0	238.6	210.8
35°	104.7	115.6	173.7	116.9	107.5
37.5°	50.7	58.8	86.5	56.1	51.4
40°	23.0	27.7	39.9	26.4	18.9
42.5°	6.8	12.2	20.9	9.5	6.1
45°	2.0	3.4	10.8	3.4	2.0
47.5°	1.4	1.4	4.7	1.4	1.4
50°	0.7	0.7	2.0	0.7	0.7
52.5°	0.0	0.7	0.7	0.7	0.7
55°	0.0	0.0	0.7	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
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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