

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



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: P886627

Luminaire Tested: ML310LSFL95FS1E-TIR4D55WFL-TL3SDMB-1000LM-2700K

Issue Date: 7/8/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P886627  
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: ML310LSFL95FS1E-TIR4D55WFL-TL3SDMB-1000LM-2700K  
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: 1032.4 lumens  
Efficiency: N/A  
Efficacy: 75.9 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

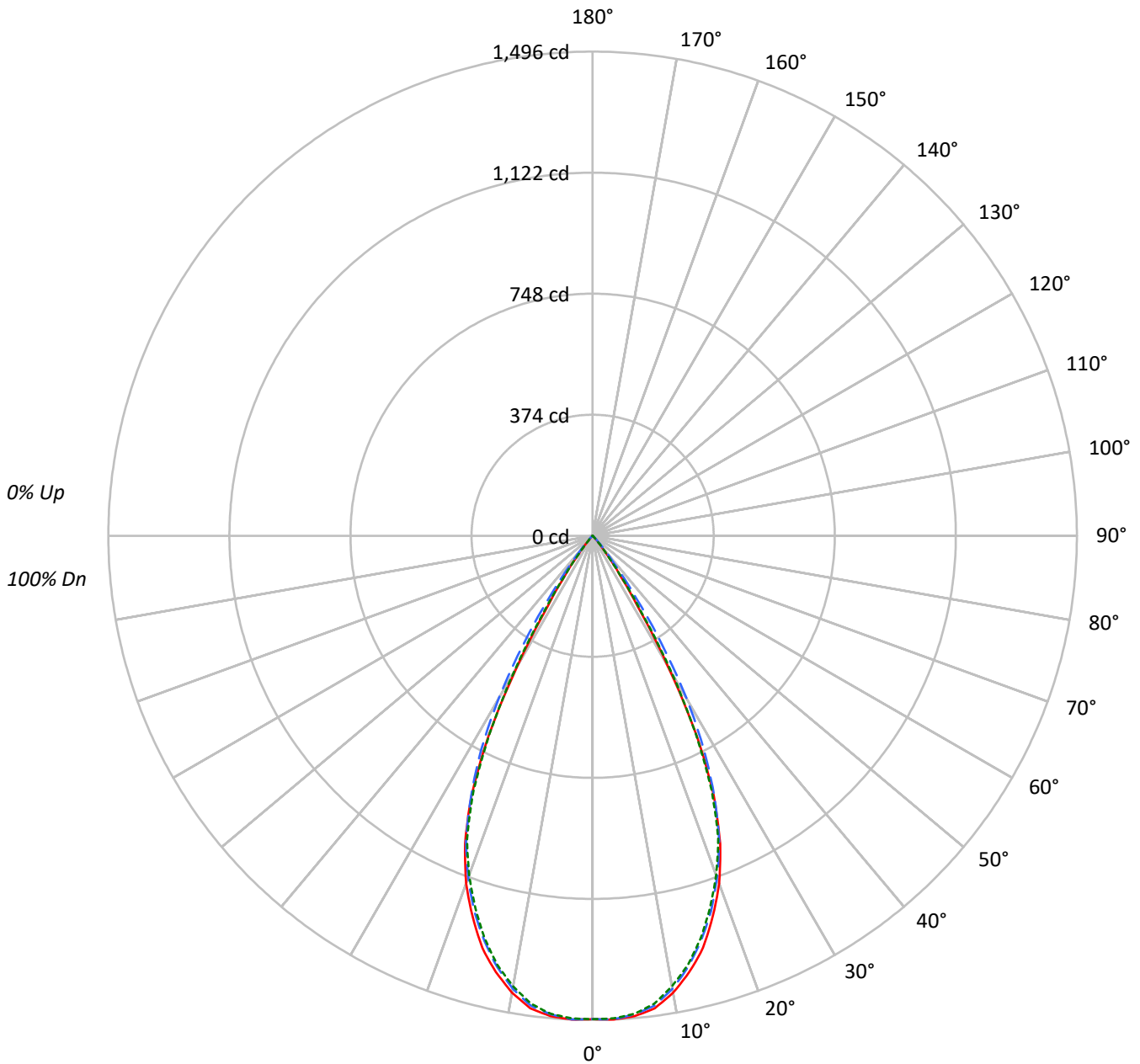
Input Watts (W): 13.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	0					
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100								
1	114	112	109	107	112	109	107	106	105	104	102	102	100	99	98	97	96	95								
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	89								
3	104	99	94	91	103	97	93	90	95	91	89	92	90	87	90	88	86	84								
4	100	93	88	85	98	92	88	84	90	86	83	88	85	82	86	84	81	80								
5	96	88	83	79	94	87	82	79	86	81	78	84	80	77	82	79	77	75								
6	92	84	78	74	90	83	78	74	81	77	74	80	76	73	79	75	73	71								
7	88	79	74	70	86	79	74	70	77	73	70	76	72	69	75	72	69	68								
8	84	75	70	66	83	75	70	66	74	69	66	73	69	66	72	68	65	64								
9	80	72	66	63	79	71	66	63	70	66	63	70	65	62	69	65	62	61								
10	77	68	63	60	76	68	63	60	67	63	60	67	62	59	66	62	59	58								

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

	0°	45°	90°
0°	257215	257215	257215
5°	257575	256624	256313
10°	250690	248469	247192
15°	235015	230789	229666
20°	209576	205910	204425
25°	168250	169105	165475
30°	92015	115322	96887
35°	29624	49113	30380
40°	6947	12050	5733
45°	658	3532	658
50°	241	723	241
55°	0	270	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: 3532 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	139.9	13.6
10°-20°	361.5	35.0
20°-30°	392.3	38.0
30°-40°	129.8	12.6
40°-50°	8.6	0.8
50°-60°	0.4	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°	893.6	86.6
0°-40°	1023.5	99.1
0°-60°	1032.4	100.0
0°-90°	1032.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1032.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1494	1494	1494	1494	1494	
5°	1490	1488	1484	1484	1483	141
15°	1318	1310	1294	1291	1288	366
25°	885	894	890	884	871	386
35°	141	155	234	157	144	107
45°	3	4	14	4	3	5
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°	1493.5	1493.5	1493.5	1493.5	1493.5
2.5°	1496.2	1496.2	1495.3	1494.4	1492.6
5°	1489.9	1488.0	1484.4	1483.5	1482.6
7.5°	1472.6	1470.8	1464.4	1458.1	1458.1
10°	1433.5	1432.6	1420.8	1417.1	1413.5
12.5°	1380.8	1377.1	1364.4	1359.9	1358.1
15°	1318.1	1309.9	1294.4	1290.8	1288.1
17.5°	1233.5	1229.9	1216.3	1209.9	1205.3
20°	1143.5	1135.4	1123.5	1119.0	1115.4
22.5°	1029.9	1025.4	1021.7	1019.0	1013.5
25°	885.4	893.6	889.9	883.6	870.8
27.5°	697.2	731.8	744.5	725.4	689.0
30°	462.7	535.4	579.9	524.5	487.2
32.5°	258.2	302.7	400.9	320.9	283.6
35°	140.9	155.4	233.6	157.3	144.5
37.5°	68.2	79.1	116.4	75.4	69.1
40°	30.9	37.3	53.6	35.5	25.5
42.5°	9.1	16.4	28.2	12.7	8.2
45°	2.7	4.5	14.5	4.5	2.7
47.5°	1.8	1.8	6.4	1.8	1.8
50°	0.9	0.9	2.7	0.9	0.9
52.5°	0.0	0.9	0.9	0.9	0.9
55°	0.0	0.0	0.9	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

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Scaled Data Report



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Scaled Data Report







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

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