

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: P886543

Luminaire Tested: ML310LSFL95FS1E-TIR4D25NFL-TL3RDDB-510LM-3000K

Issue Date: 7/18/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P886543  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-3)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 7/18/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML310LSFL95FS1E-TIR4D25NFL-TL3RDMB-510LM-3000K  
Description: 3IN ROUND ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE BLACK TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

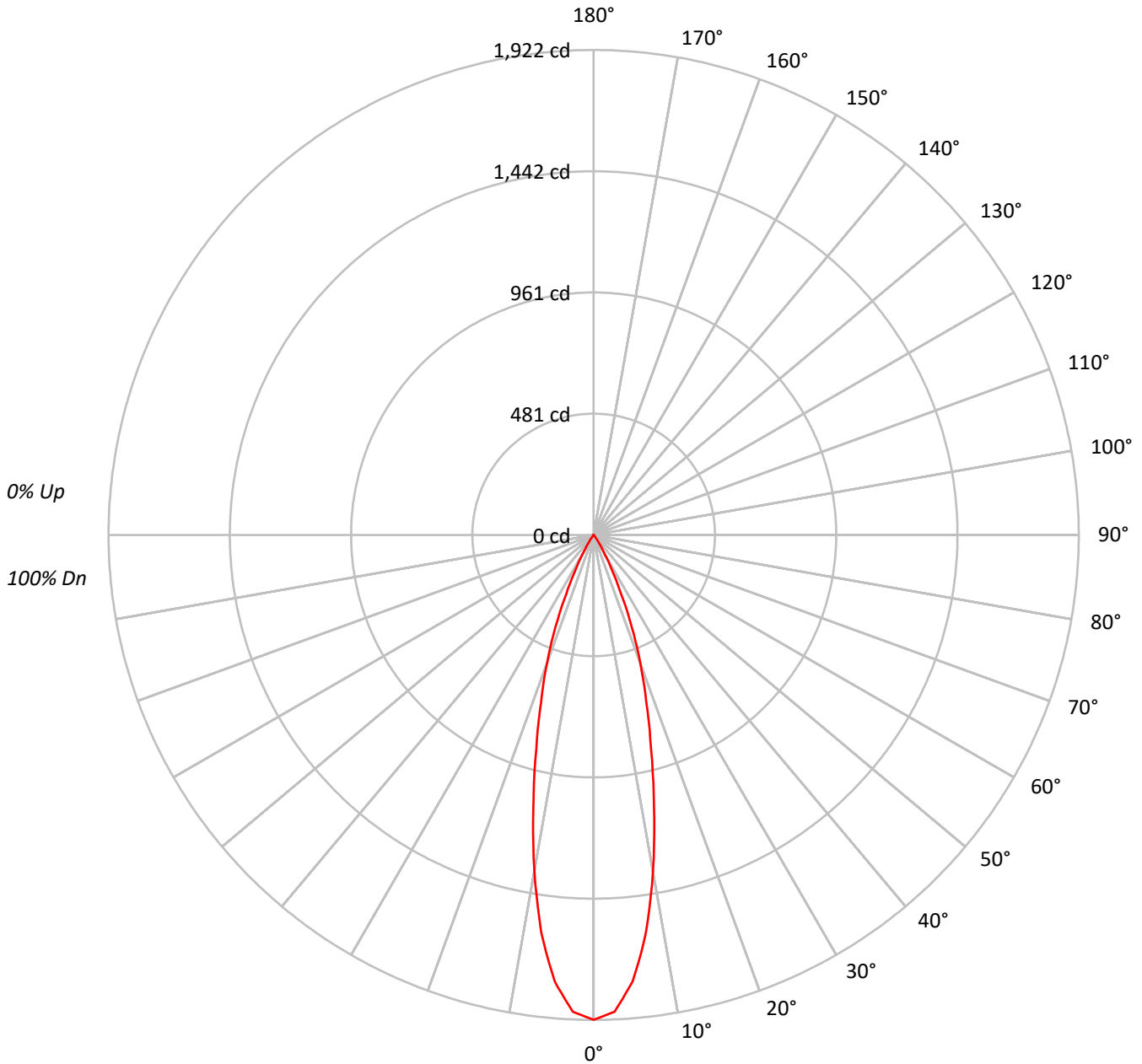
Lumens per Lamp: N/A  
Luminaire Lumens: 545.2 lumens  
Efficiency: N/A  
Efficacy: 68.2 lumens/watt  
Spacing Criteria (0/90/45): 0.47 / 0.47 / 0.5  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 8  
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									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			100																
1	115	113	111	109	112	111	109	107	107	105	104	103	102	101	100	99	98	96			96																
2	111	107	104	101	109	105	103	100	102	100	98	100	98	96	97	95	94	93			93																
3	107	102	99	96	105	101	98	95	99	96	93	96	94	92	94	92	91	89			89																
4	104	98	94	91	102	97	93	90	95	92	89	93	90	88	91	89	87	86			86																
5	100	94	90	87	99	93	89	86	92	88	86	90	87	85	89	86	84	83			83																
6	97	91	86	83	96	90	86	83	88	85	82	87	84	82	86	83	81	80			80																
7	94	87	83	80	93	87	83	80	86	82	79	85	81	79	84	81	78	77			77																
8	91	84	80	77	90	84	80	77	83	79	76	82	79	76	81	78	76	75			75																
9	89	81	77	74	88	81	77	74	80	77	74	79	76	74	79	76	73	73			73																
10	86	79	75	72	85	79	74	72	78	74	72	77	74	71	77	73	71	70			70																

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

	0°
0°	421370
5°	390798
10°	301486
15°	199252
20°	126011
25°	61721
30°	22788
35°	6130
40°	1317
45°	527
50°	205
55°	0
60°	0
65°	0
70°	0
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 527 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	155.8	28.6
10°-20°	244.9	44.9
20°-30°	123.8	22.7
30°-40°	19.1	3.5
40°-50°	1.6	0.3
50°-60°	0.1	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°	524.5	96.2
0°-40°	543.6	99.7
0°-60°	545.2	100.0
0°-90°	545.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	545.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1922	
5°	1775	156
15°	878	245
25°	255	124
35°	23	19
45°	2	2
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1921.6
2.5°	1891.2
5°	1775.4
7.5°	1589.1
10°	1354.0
12.5°	1104.7
15°	877.7
17.5°	692.5
20°	540.0
22.5°	393.8
25°	255.1
27.5°	159.4
30°	90.0
32.5°	48.7
35°	22.9
37.5°	9.2
40°	4.6
42.5°	2.9
45°	1.7
47.5°	1.1
50°	0.6
52.5°	0.0
55°	0.0
57.5°	0.0
60°	0.0
62.5°	0.0
65°	0.0
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

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

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)