

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: P886681

Luminaire Tested: ML310LSFL9FS1E-TIR4D25NFL-TL3RDMB-600LM-5000K

Issue Date: 7/18/2024

Test Information

Test Method: LM-79-2019
Report Number: P886681
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: ML310LSFL9FS1E-TIR4D25NFL-TL3RDMB-600LM-5000K
Description: 3IN ROUND ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE BLACK TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 683.9 lumens
Efficiency: N/A
Efficacy: 84.4 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

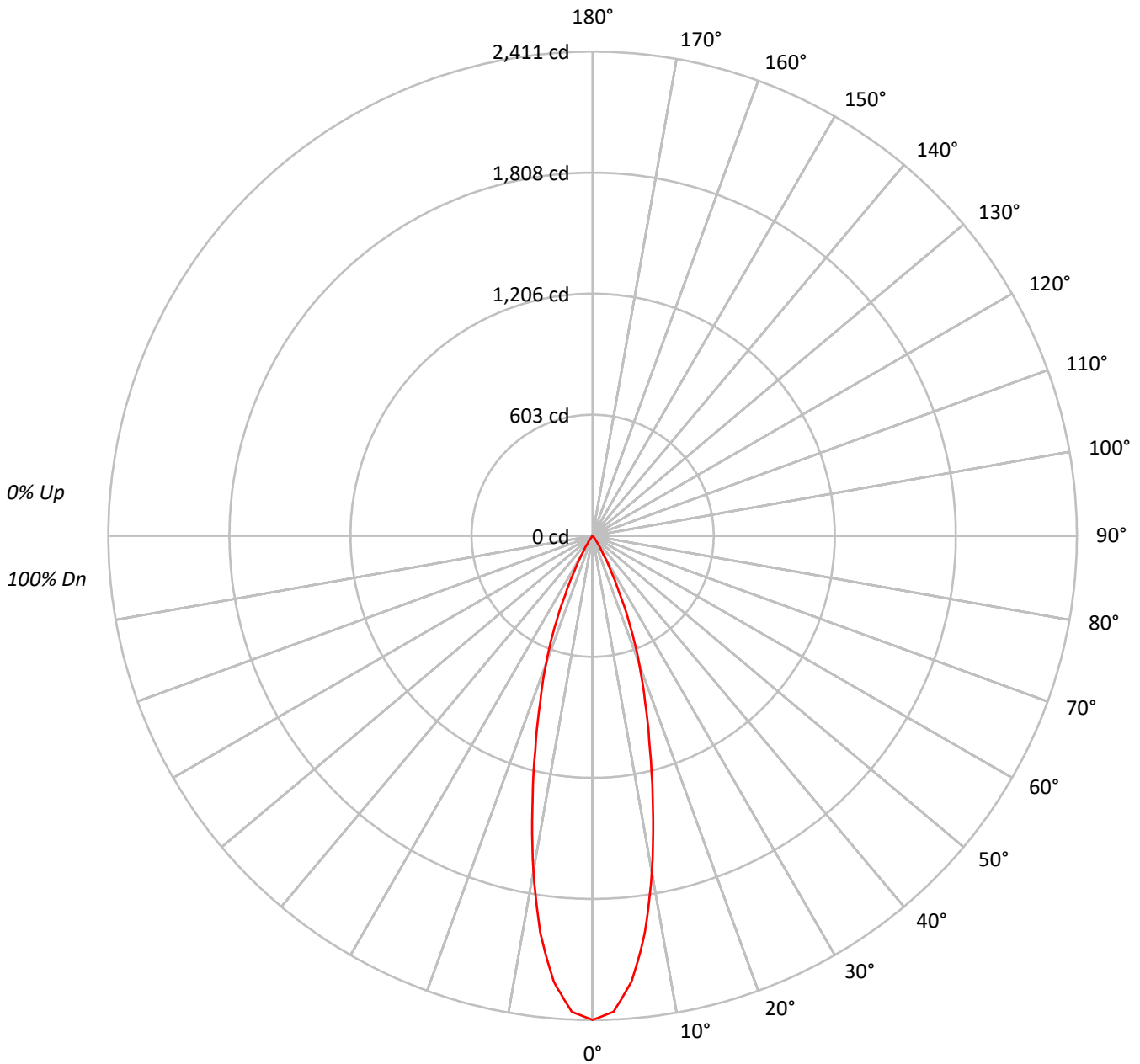
Input Watts (W): 8.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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				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																
3	107	102	99	96	105	101	98	95	99	96	93	96	94	92	94	92	91				89																
4	104	98	94	91	102	97	93	90	95	92	89	93	90	88	91	89	87				86																
5	100	94	90	87	99	93	89	86	92	88	86	90	87	85	89	86	84				83																
6	97	91	86	83	96	90	86	83	88	85	82	87	84	82	86	83	81				80																
7	94	87	83	80	93	87	83	80	86	82	79	85	81	79	84	81	78				77																
8	91	84	80	77	90	84	80	77	83	79	76	82	79	76	81	78	76				75																
9	89	81	77	74	88	81	77	74	80	77	74	79	76	74	79	76	73				73																
10	86	79	75	72	85	79	74	72	78	74	72	77	74	71	77	73	71				70																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	528598
5°	490247
10°	378216
15°	249945
20°	158074
25°	77424
30°	28587
35°	7710
40°	1660
45°	682
50°	239
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: 682 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.5	28.6
10°-20°	307.2	44.9
20°-30°	155.3	22.7
30°-40°	24.0	3.5
40°-50°	2.0	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°	657.9	96.2
0°-40°	681.9	99.7
0°-60°	683.9	100.0
0°-90°	683.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	683.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2411	
5°	2227	196
15°	1101	307
25°	320	155
35°	29	24
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°	2410.6
2.5°	2372.4
5°	2227.2
7.5°	1993.5
10°	1698.6
12.5°	1385.8
15°	1101.0
17.5°	868.7
20°	677.4
22.5°	494.0
25°	320.0
27.5°	199.9
30°	112.9
32.5°	61.1
35°	28.8
37.5°	11.5
40°	5.8
42.5°	3.6
45°	2.2
47.5°	1.4
50°	0.7
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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