

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: P886715

Luminaire Tested: ML310LSFL9FS1E-TIR4D40FL-TL3RDMB-1000LM-4000K

Issue Date: 7/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P886715
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 7/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML310LSFL9FS1E-TIR4D40FL-TL3RDMB-1000LM-4000K
Description: 3IN ROUND ML FLEX, SELECTABLE CCT, WITH 40D TIR, MATTE BLACK TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1271.7 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Spacing Criteria (0/90/45): 0.67 / 0.67 / 0.62
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

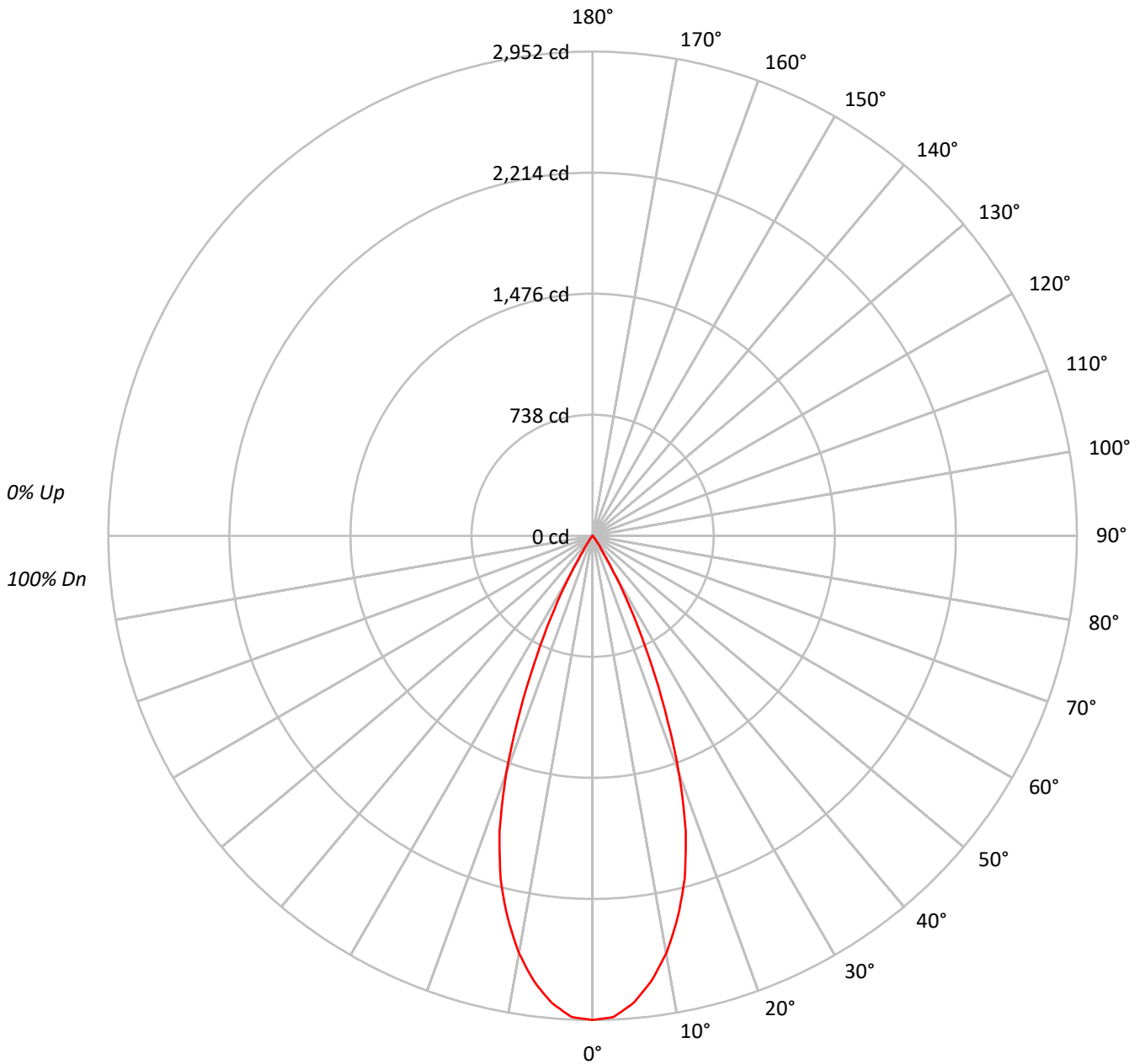
Input Watts (W): 13.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	112	110	108	112	110	108	107	106	105	103	103	101	100	99	98	98	96			96																
2	110	106	103	100	108	105	102	99	102	99	97	99	97	95	96	95	93	92			92																
3	106	101	97	94	105	100	96	93	97	94	92	95	93	91	93	91	89	88			88																
4	102	97	92	89	101	95	91	88	93	90	87	92	89	86	90	87	85	84			84																
5	99	92	88	84	97	91	87	84	90	86	83	88	85	83	87	84	82	81			81																
6	95	88	84	80	94	88	83	80	86	82	80	85	82	79	84	81	79	77			77																
7	92	85	80	77	91	84	80	77	83	79	76	82	78	76	81	78	76	74			74																
8	89	81	77	74	88	81	77	73	80	76	73	79	75	73	78	75	73	72			72																
9	86	78	74	71	85	78	74	71	77	73	70	76	73	70	76	72	70	69			69																
10	83	75	71	68	82	75	71	68	74	70	68	74	70	67	73	70	67	66			66																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	647360
5°	629406
10°	575451
15°	491921
20°	358501
25°	193463
30°	65706
35°	12421
40°	3464
45°	682
50°	0
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°	264.1	20.8
10°-20°	587.7	46.2
20°-30°	370.5	29.1
30°-40°	46.9	3.7
40°-50°	2.6	0.2
50°-60°	0.0	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°	1222.3	96.1
0°-40°	1269.2	99.8
0°-60°	1271.7	100.0
0°-90°	1271.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1271.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2952	
5°	2859	264
15°	2167	588
25°	800	370
35°	46	47
45°	2	3
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2952.2
2.5°	2936.7
5°	2859.4
7.5°	2739.0
10°	2584.4
12.5°	2388.9
15°	2166.9
17.5°	1886.4
20°	1536.3
22.5°	1150.8
25°	799.6
27.5°	503.6
30°	259.5
32.5°	109.3
35°	46.4
37.5°	24.3
40°	12.1
42.5°	4.4
45°	2.2
47.5°	1.1
50°	0.0
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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