

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: P886676

Luminaire Tested: ML310LSFL9FS1E-TIR4D25NFL-TL3RDMB-1000LM-5000K

Issue Date: 7/18/2024

Test Information

Test Method: LM-79-2019
Report Number: P886676
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-1000LM-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: 1102.0 lumens
Efficiency: N/A
Efficacy: 79.9 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

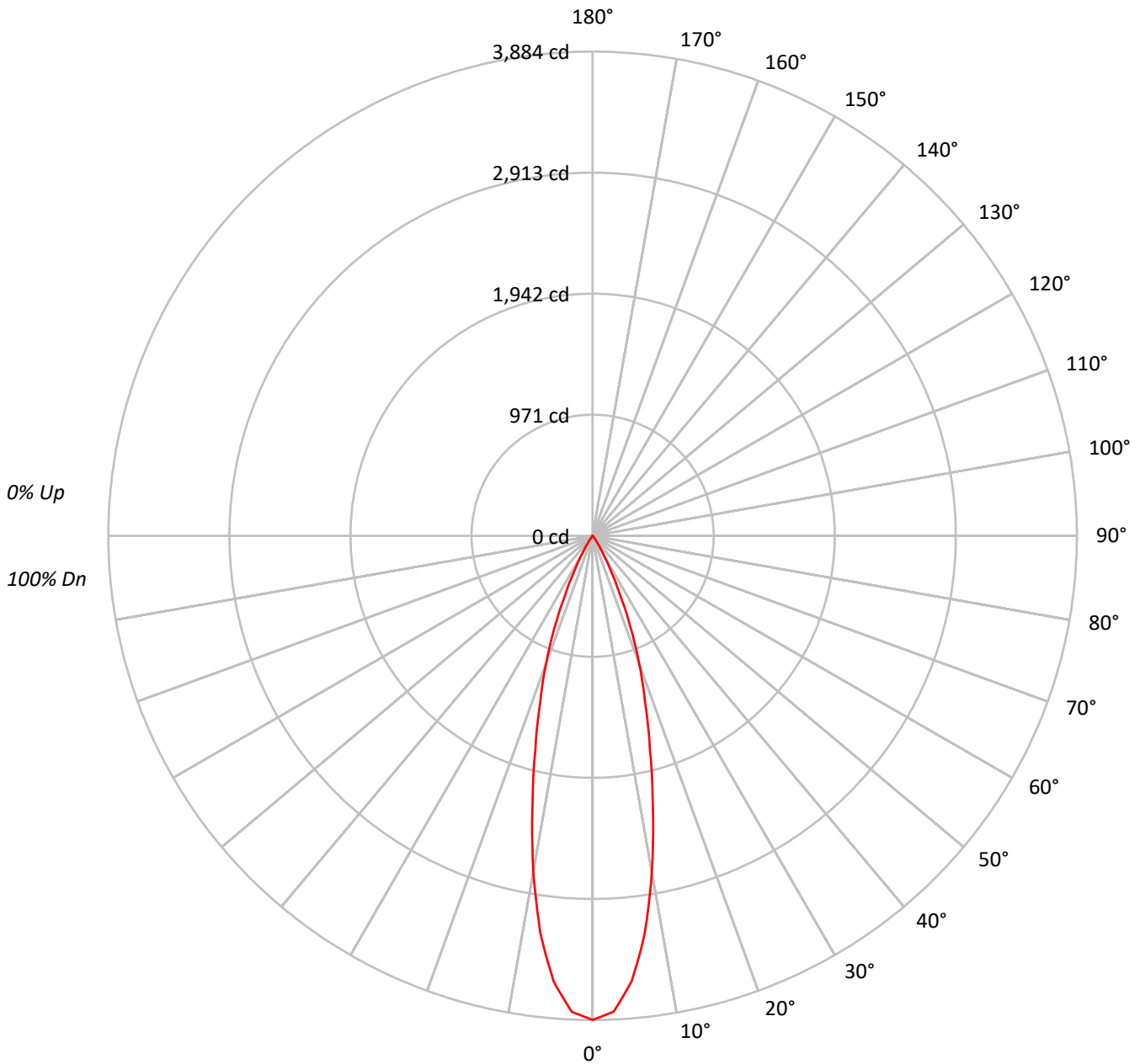
Input Watts (W): 13.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





TEST NUMBER: P886676

CATALOG NUMBER: ML310LSFL9FS1E-TIR4D25NFL-TL3RDDB-1000LM-5000K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									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	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	95	94	93	92	91	90	89	88	87	86	83																
2	111	107	104	101	109	105	103	100	102	100	98	96	94	92	90	88	86	84	82	80	78	76	74	72	70	68	66	64	62	60																
3	107	102	99	96	105	101	98	95	99	96	93	91	89	87	85	83	81	79	77	75	73	71	69	67	65	63	61	59	57	55																
4	104	98	94	91	102	97	93	90	95	92	89	87	85	83	81	79	77	75	73	71	69	67	65	63	61	59	57	55	53	51																
5	100	94	90	87	99	93	89	86	92	88	86	84	82	80	78	76	74	72	70	68	66	64	62	60	58	56	54	52	50	48																
6	97	91	86	83	96	90	86	83	88	85	82	80	78	76	74	72	70	68	66	64	62	60	58	56	54	52	50	48	46	44																
7	94	87	83	80	93	87	83	80	86	82	79	77	75	73	71	69	67	65	63	61	59	57	55	53	51	49	47	45	43	41																
8	91	84	80	77	90	84	80	77	83	79	76	74	72	70	68	66	64	62	60	58	56	54	52	50	48	46	44	42	40	38																
9	89	81	77	74	88	81	77	74	80	77	74	72	70	68	66	64	62	60	58	56	54	52	50	48	46	44	42	40	38	36																
10	86	79	75	72	85	79	74	72	78	74	72	70	68	66	64	62	60	58	56	54	52	50	48	46	44	42	40	38	36	34																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	851664
5°	789894
10°	609385
15°	402726
20°	254705
25°	124749
30°	46058
35°	12394
40°	2662
45°	1085
50°	409
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: 1085 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.0	28.6
10°-20°	494.9	44.9
20°-30°	250.2	22.7
30°-40°	38.6	3.5
40°-50°	3.2	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°	1060.1	96.2
0°-40°	1098.7	99.7
0°-60°	1102.0	100.0
0°-90°	1102.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1102.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3884	
5°	3588	315
15°	1774	495
25°	516	250
35°	46	39
45°	4	3
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3883.9
2.5°	3822.5
5°	3588.5
7.5°	3211.9
10°	2736.8
12.5°	2232.8
15°	1774.0
17.5°	1399.7
20°	1091.5
22.5°	796.0
25°	515.6
27.5°	322.1
30°	181.9
32.5°	98.5
35°	46.3
37.5°	18.5
40°	9.3
42.5°	5.8
45°	3.5
47.5°	2.3
50°	1.2
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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