

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: P886673

Luminaire Tested: ML310LSFL9FS1E-TIR4D25NFL-TL3RDMB-1000LM-3000K

Issue Date: 7/18/2024

Test Information

Test Method: LM-79-2019
Report Number: P886673
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-3000K
Description: 3IN ROUND ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE BLACK TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

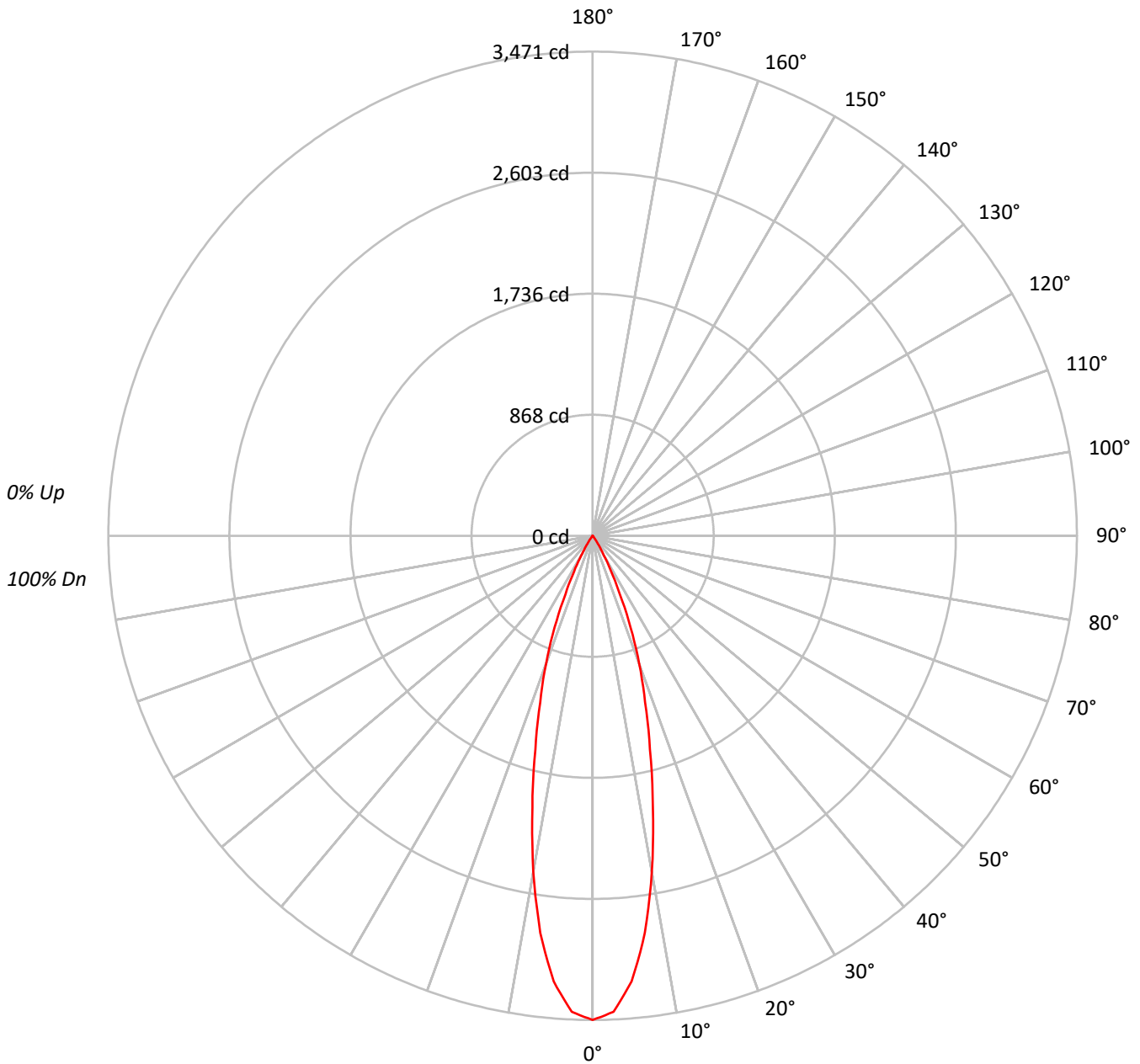
Lumens per Lamp: N/A
Luminaire Lumens: 984.9 lumens
Efficiency: N/A
Efficacy: 71.4 lumens/watt
Spacing Criteria (0/90/45): 0.47 / 0.47 / 0.5
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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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CATALOG NUMBER: ML310LSFL9FS1E-TIR4D25NFL-TL3RDDB-1000LM-3000K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	115	113	111	109	112	111	109	107	107	105	104	103	102	101	100	99	98	96	96	96	96
2	111	107	104	101	109	105	103	100	102	100	98	100	98	96	97	95	94	93	93	93	93
3	107	102	99	96	105	101	98	95	99	96	93	96	94	92	94	92	91	89	89	89	89
4	104	98	94	91	102	97	93	90	95	92	89	93	90	88	91	89	87	86	86	86	86
5	100	94	90	87	99	93	89	86	92	88	86	90	87	85	89	86	84	83	83	83	83
6	97	91	86	83	96	90	86	83	88	85	82	87	84	82	86	83	81	80	80	80	80
7	94	87	83	80	93	87	83	80	86	82	79	85	81	79	84	81	78	77	77	77	77
8	91	84	80	77	90	84	80	77	83	79	76	82	79	76	81	78	76	75	75	75	75
9	89	81	77	74	88	81	77	74	80	77	74	79	76	74	79	76	73	73	73	73	73
10	86	79	75	72	85	79	74	72	78	74	72	77	74	71	77	73	71	70	70	70	70

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	761167
5°	705941
10°	544635
15°	359934
20°	227636
25°	111490
30°	41171
35°	11082
40°	2376
45°	961
50°	341
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: 961 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.5	28.6
10°-20°	442.3	44.9
20°-30°	223.6	22.7
30°-40°	34.5	3.5
40°-50°	2.8	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°	947.4	96.2
0°-40°	982.0	99.7
0°-60°	984.9	100.0
0°-90°	984.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	984.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3471	
5°	3207	282
15°	1586	442
25°	461	224
35°	41	35
45°	3	3
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3471.2
2.5°	3416.3
5°	3207.1
7.5°	2870.6
10°	2446.0
12.5°	1995.5
15°	1585.5
17.5°	1251.0
20°	975.5
22.5°	711.4
25°	460.8
27.5°	287.9
30°	162.6
32.5°	88.0
35°	41.4
37.5°	16.6
40°	8.3
42.5°	5.2
45°	3.1
47.5°	2.1
50°	1.0
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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(END OF REPORT)