

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: P886675

Luminaire Tested: ML310LSFL9FS1E-TIR4D25NFL-TL3RDMB-1000LM-4000K

Issue Date: 7/18/2024

Test Information

Test Method: LM-79-2019
Report Number: P886675
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-4000K
Description: 3IN ROUND ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE BLACK TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

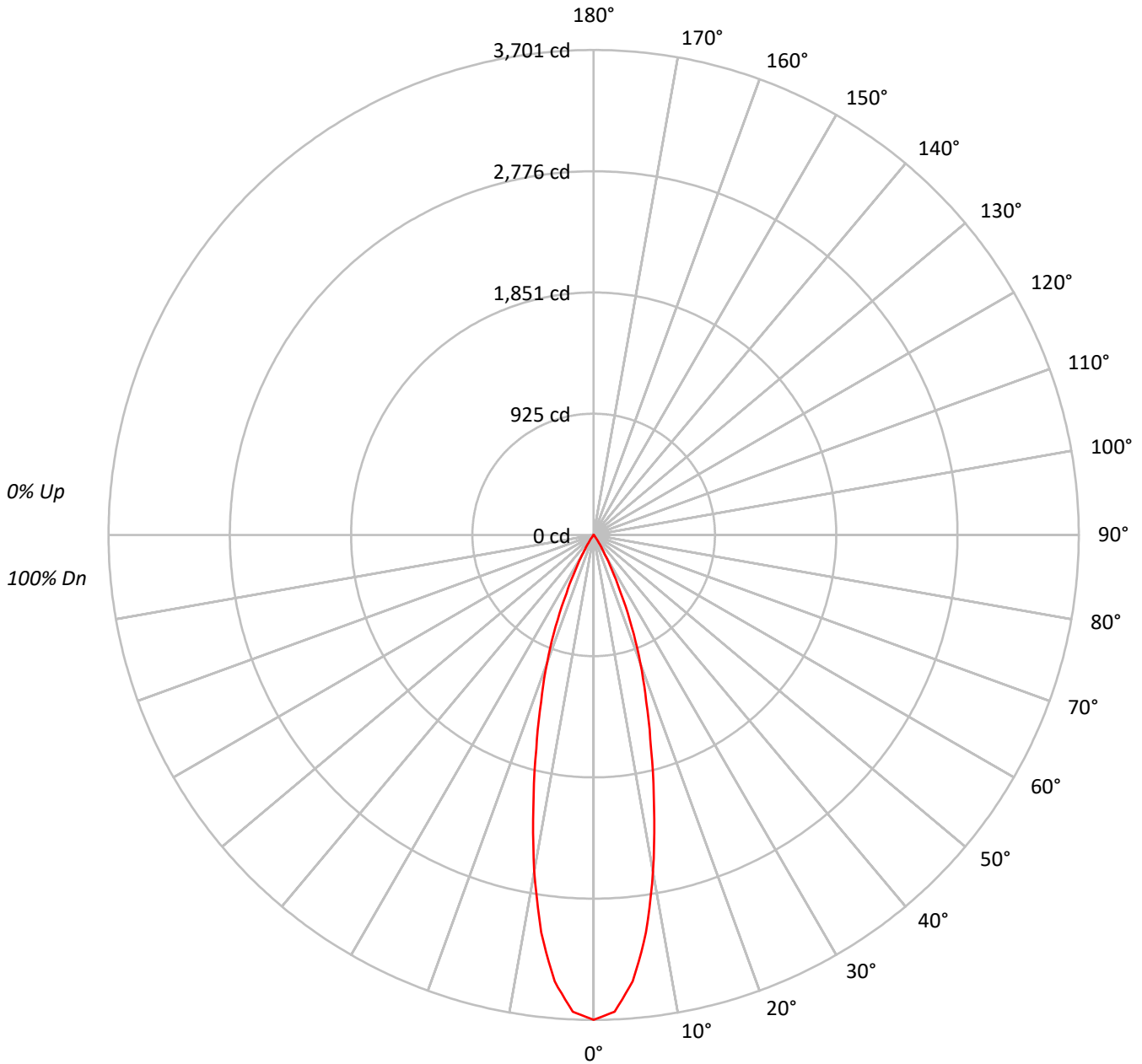
Lumens per Lamp: N/A
Luminaire Lumens: 1050.0 lumens
Efficiency: N/A
Efficacy: 76.1 lumens/watt
Spacing Criteria (0/90/45): 0.47 / 0.47 / 0.5
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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-4000K

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	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°	811492
5°	752606
10°	580639
15°	383703
20°	242688
25°	118870
30°	43880
35°	11832
40°	2519
45°	1023
50°	375
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: 1023 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.1	28.6
10°-20°	471.5	44.9
20°-30°	238.4	22.7
30°-40°	36.8	3.5
40°-50°	3.0	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°	1010.1	96.2
0°-40°	1046.9	99.7
0°-60°	1050.0	100.0
0°-90°	1050.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1050.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3701	
5°	3419	300
15°	1690	472
25°	491	238
35°	44	37
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°	3700.7
2.5°	3642.1
5°	3419.1
7.5°	3060.3
10°	2607.7
12.5°	2127.4
15°	1690.2
17.5°	1333.6
20°	1040.0
22.5°	758.5
25°	491.3
27.5°	306.9
30°	173.3
32.5°	93.8
35°	44.2
37.5°	17.7
40°	8.8
42.5°	5.5
45°	3.3
47.5°	2.2
50°	1.1
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)