

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: P886685

Luminaire Tested: ML310LSFL9FS1E-TIR4D25NFL-TL3RDMB-800LM-4000K

Issue Date: 7/18/2024

Test Information

Test Method: LM-79-2019
Report Number: P886685
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-800LM-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

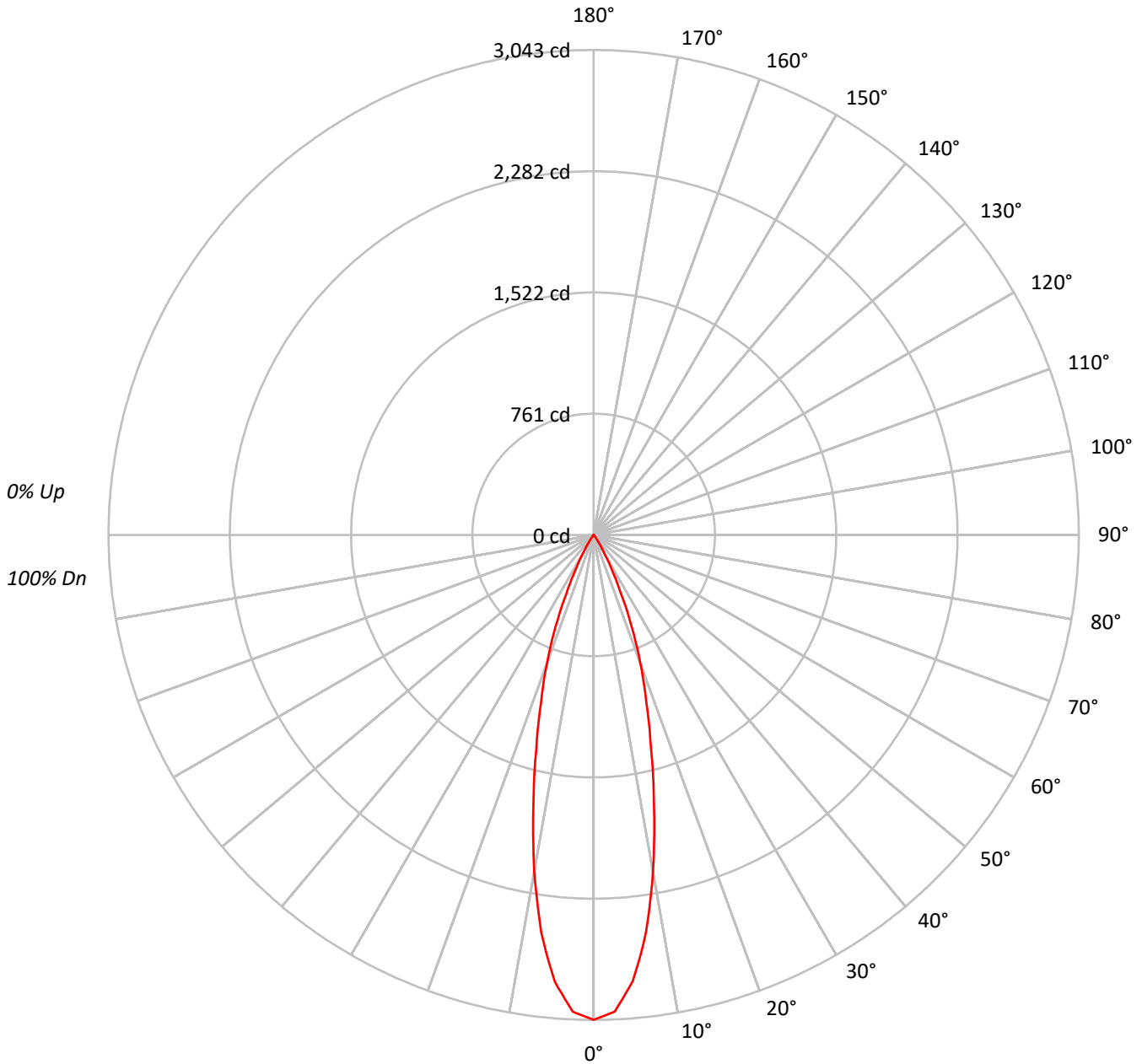
Lumens per Lamp: N/A
Luminaire Lumens: 863.3 lumens
Efficiency: N/A
Efficacy: 79.2 lumens/watt
Spacing Criteria (0/90/45): 0.47 / 0.47 / 0.5
Luminous Opening: Circular (Dia: 0.25' x H: 0')CIE Type: Direct

Input Watts (W): 10.9
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: P886685

CATALOG NUMBER: ML310LSFL9FS1E-TIR4D25NFL-TL3RDDB-800LM-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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	115	113	111	109	112	111	109	107	107	105	104	103	102	101	100	99	98	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°	667205
5°	618797
10°	477413
15°	315484
20°	199541
25°	97723
30°	36082
35°	9717
40°	2090
45°	837
50°	307
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: 837 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.8	28.6
10°-20°	387.7	44.9
20°-30°	196.0	22.7
30°-40°	30.3	3.5
40°-50°	2.5	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°	830.5	96.2
0°-40°	860.7	99.7
0°-60°	863.3	100.0
0°-90°	863.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	863.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3043	
5°	2811	247
15°	1390	388
25°	404	196
35°	36	30
45°	3	2
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3042.7
2.5°	2994.6
5°	2811.2
7.5°	2516.2
10°	2144.1
12.5°	1749.2
15°	1389.7
17.5°	1096.5
20°	855.1
22.5°	623.6
25°	403.9
27.5°	252.3
30°	142.5
32.5°	77.2
35°	36.3
37.5°	14.5
40°	7.3
42.5°	4.5
45°	2.7
47.5°	1.8
50°	0.9
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)