

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: P886748

Luminaire Tested: ML310LSFL9FS1E-TIR4D55WFL-TL3RDMW-1000LM-3000K

Issue Date: 7/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P886748
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-7)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 7/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML310LSFL9FS1E-TIR4D55WFL-TL3RDMW-1000LM-3000K
Description: 3IN ROUND ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE WHITE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

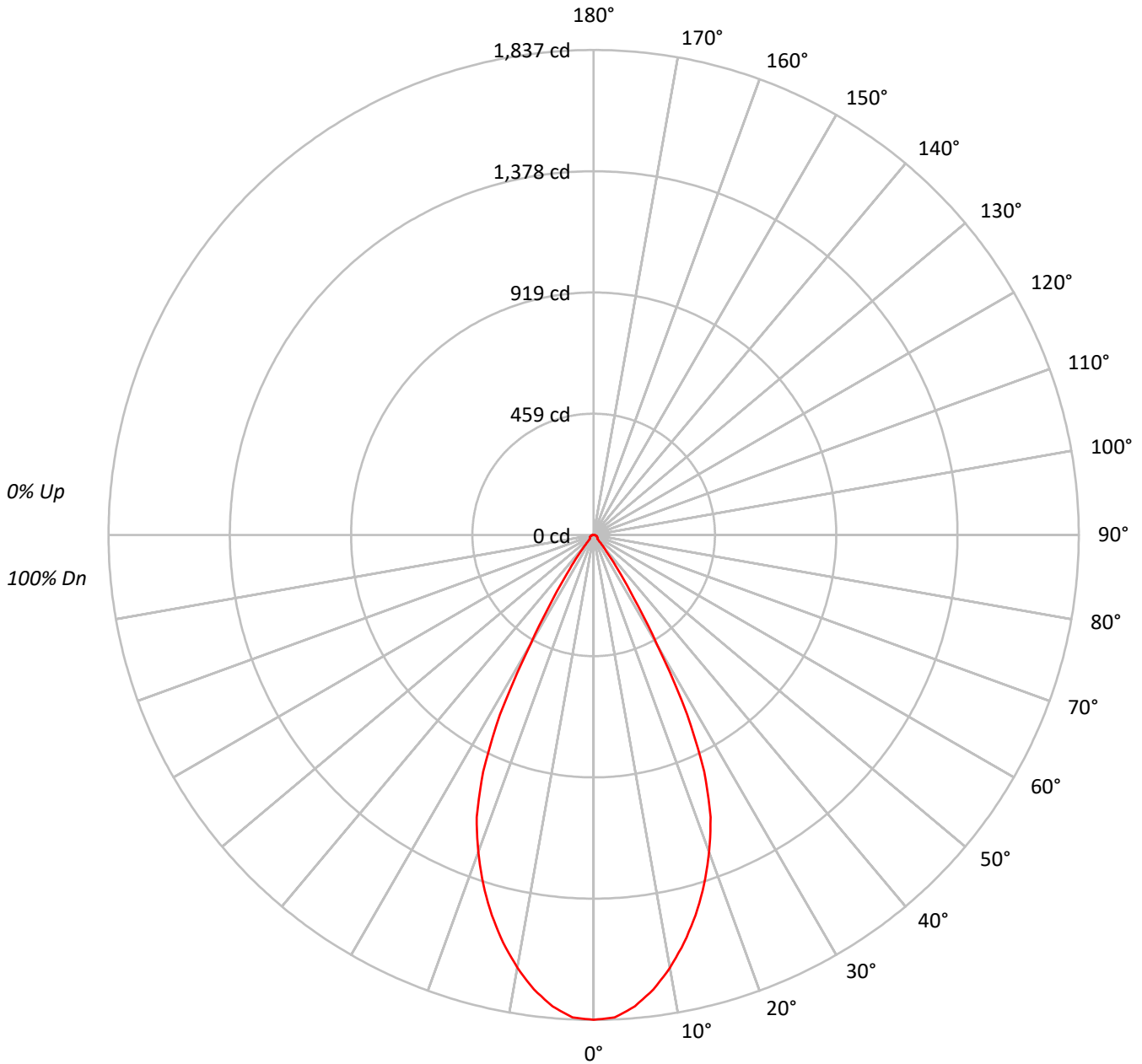
Lumens per Lamp: N/A
Luminaire Lumens: 1186.7 lumens
Efficiency: N/A
Efficacy: 86.0 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.82 / 0.76
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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				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			
1	114	111	109	106	111	109	107	105	105	103	102	101	100	99	98	97	96	94			
2	109	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88			
3	104	98	93	89	102	96	92	89	94	90	87	91	88	86	89	87	84	83			
4	99	92	87	83	97	91	86	83	89	85	82	87	83	81	85	82	80	78			
5	95	87	82	78	93	86	81	77	84	80	77	83	79	76	81	78	75	74			
6	91	82	77	73	89	82	76	73	80	76	72	79	75	72	78	74	71	70			
7	87	78	73	69	85	78	72	69	76	72	68	75	71	68	74	70	68	66			
8	83	74	69	65	82	74	69	65	73	68	65	72	68	65	71	67	64	63			
9	80	71	65	62	79	70	65	62	70	65	62	69	64	61	68	64	61	60			
10	76	68	62	59	76	67	62	59	66	62	59	66	61	58	65	61	58	57			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	402753
5°	394496
10°	370690
15°	338458
20°	298133
25°	239482
30°	121386
35°	42135
40°	13053
45°	6419
50°	6345
55°	6729
60°	6798
65°	7005
70°	7309
75°	7032
80°	6566
85°	5284

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 70°
 Luminance: 7309 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.0	14.1
10°-20°	414.9	35.0
20°-30°	428.3	36.1
30°-40°	117.9	9.9
40°-50°	18.4	1.6
50°-60°	15.4	1.3
60°-70°	13.3	1.1
70°-80°	8.7	0.7
80°-90°	2.7	0.2
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°	1010.2	85.1
0°-40°	1128.1	95.1
0°-60°	1162.0	97.9
0°-90°	1186.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1186.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1837	
5°	1792	167
15°	1491	415
25°	990	428
35°	157	118
45°	21	18
55°	18	15
65°	14	13
75°	8	9
85°	2	3
90°	0	



TEST NUMBER: P886748

CATALOG NUMBER: ML310LSFL9FS1E-TIR4D55WFL-TL3RDMW-100LM-3000K

CANDELA DISTRIBUTION (FULL):

	0°
0°	1836.7
2.5°	1829.4
5°	1792.2
7.5°	1736.2
10°	1664.8
12.5°	1582.0
15°	1490.9
17.5°	1389.4
20°	1277.6
22.5°	1157.5
25°	989.8
27.5°	768.2
30°	479.4
32.5°	279.5
35°	157.4
37.5°	83.9
40°	45.6
42.5°	23.8
45°	20.7
47.5°	19.7
50°	18.6
52.5°	17.6
55°	17.6
57.5°	16.6
60°	15.5
62.5°	14.5
65°	13.5
67.5°	12.4
70°	11.4
72.5°	9.3
75°	8.3
77.5°	7.2
80°	5.2
82.5°	4.1
85°	2.1
87.5°	1.0
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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