

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: P886751

Luminaire Tested: ML310LSFL9FS1E-TIR4D55WFL-TL3RDMW-1000LM-5000K

Issue Date: 7/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P886751
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-5000K
Description: 3IN ROUND ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE WHITE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

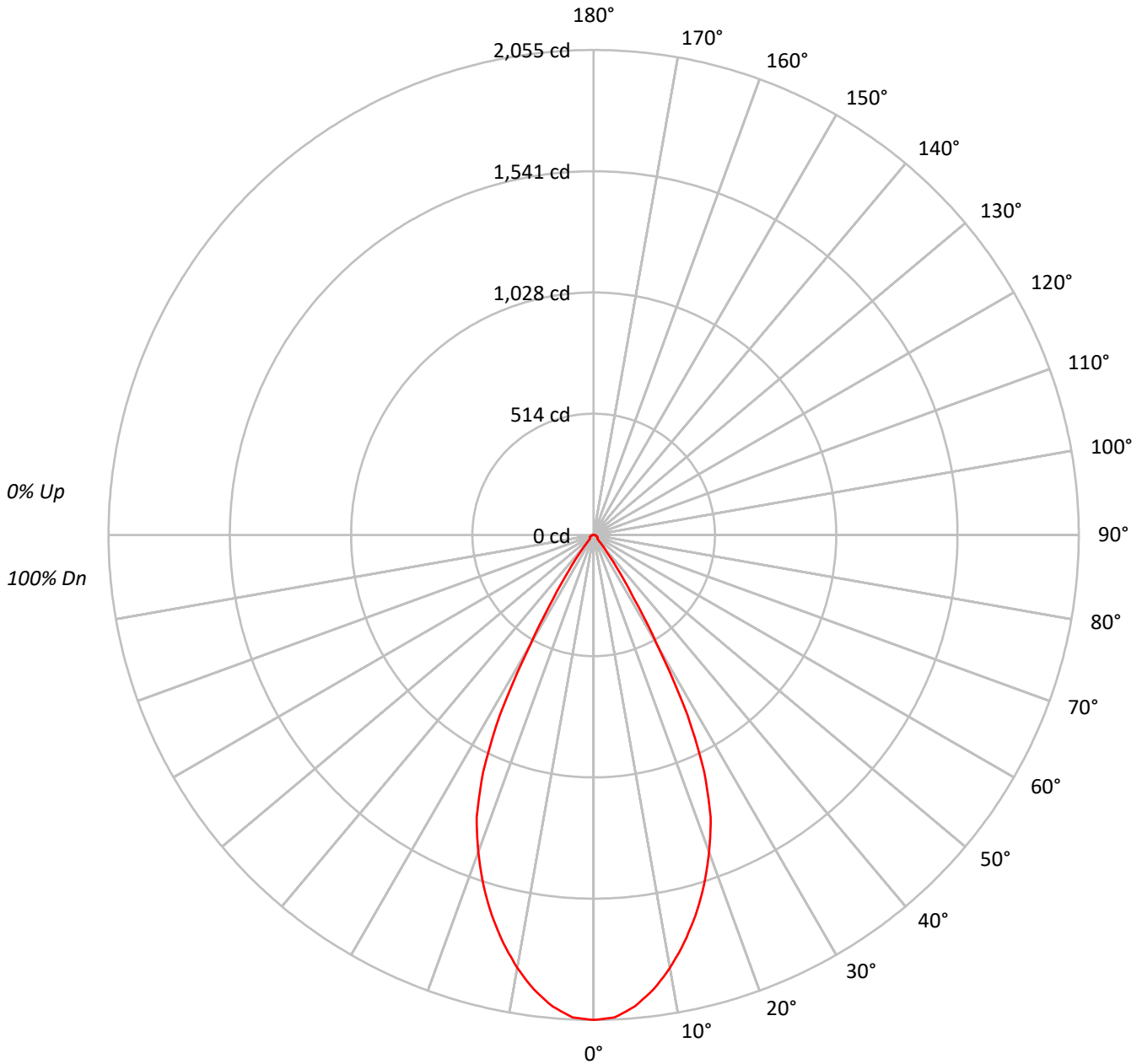
Lumens per Lamp: N/A
Luminaire Lumens: 1327.8 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.82 / 0.76
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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°	450622
5°	441381
10°	414755
15°	378685
20°	333579
25°	267959
30°	135793
35°	47141
40°	14599
45°	7195
50°	7130
55°	7531
60°	7631
65°	7835
70°	8142
75°	7879
80°	7324
85°	5787

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 77.5°
 Luminance: 8206 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.8	14.1
10°-20°	464.2	35.0
20°-30°	479.3	36.1
30°-40°	131.9	9.9
40°-50°	20.6	1.6
50°-60°	17.3	1.3
60°-70°	14.9	1.1
70°-80°	9.8	0.7
80°-90°	3.0	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°	1130.3	85.1
0°-40°	1262.2	95.1
0°-60°	1300.1	97.9
0°-90°	1327.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1327.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2055	
5°	2005	187
15°	1668	464
25°	1108	479
35°	176	132
45°	23	21
55°	20	17
65°	15	15
75°	9	10
85°	2	3
90°	0	



TEST NUMBER: P886751

CATALOG NUMBER: ML310LSFL9FS1E-TIR4D55WFL-TL3RDMW-100LM-5000K

CANDELA DISTRIBUTION (FULL):

	0°
0°	2055.0
2.5°	2046.9
5°	2005.2
7.5°	1942.7
10°	1862.7
12.5°	1770.1
15°	1668.1
17.5°	1554.6
20°	1429.5
22.5°	1295.1
25°	1107.5
27.5°	859.5
30°	536.3
32.5°	312.8
35°	176.1
37.5°	93.8
40°	51.0
42.5°	26.6
45°	23.2
47.5°	22.0
50°	20.9
52.5°	19.7
55°	19.7
57.5°	18.5
60°	17.4
62.5°	16.2
65°	15.1
67.5°	13.9
70°	12.7
72.5°	10.4
75°	9.3
77.5°	8.1
80°	5.8
82.5°	4.6
85°	2.3
87.5°	1.2
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)