

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: P886755

Luminaire Tested: ML310LSFL9FS1E-TIR4D55WFL-TL3RDSL-1000LM-4000K

Issue Date: 7/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P886755
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-8)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 7/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML310LSFL9FS1E-TIR4D55WFL-TL3RDSL-1000LM-4000K
Description: 3IN ROUND ML FLEX, SELECTABLE CCT, WITH 55D TIR, METALLIC SILVER TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

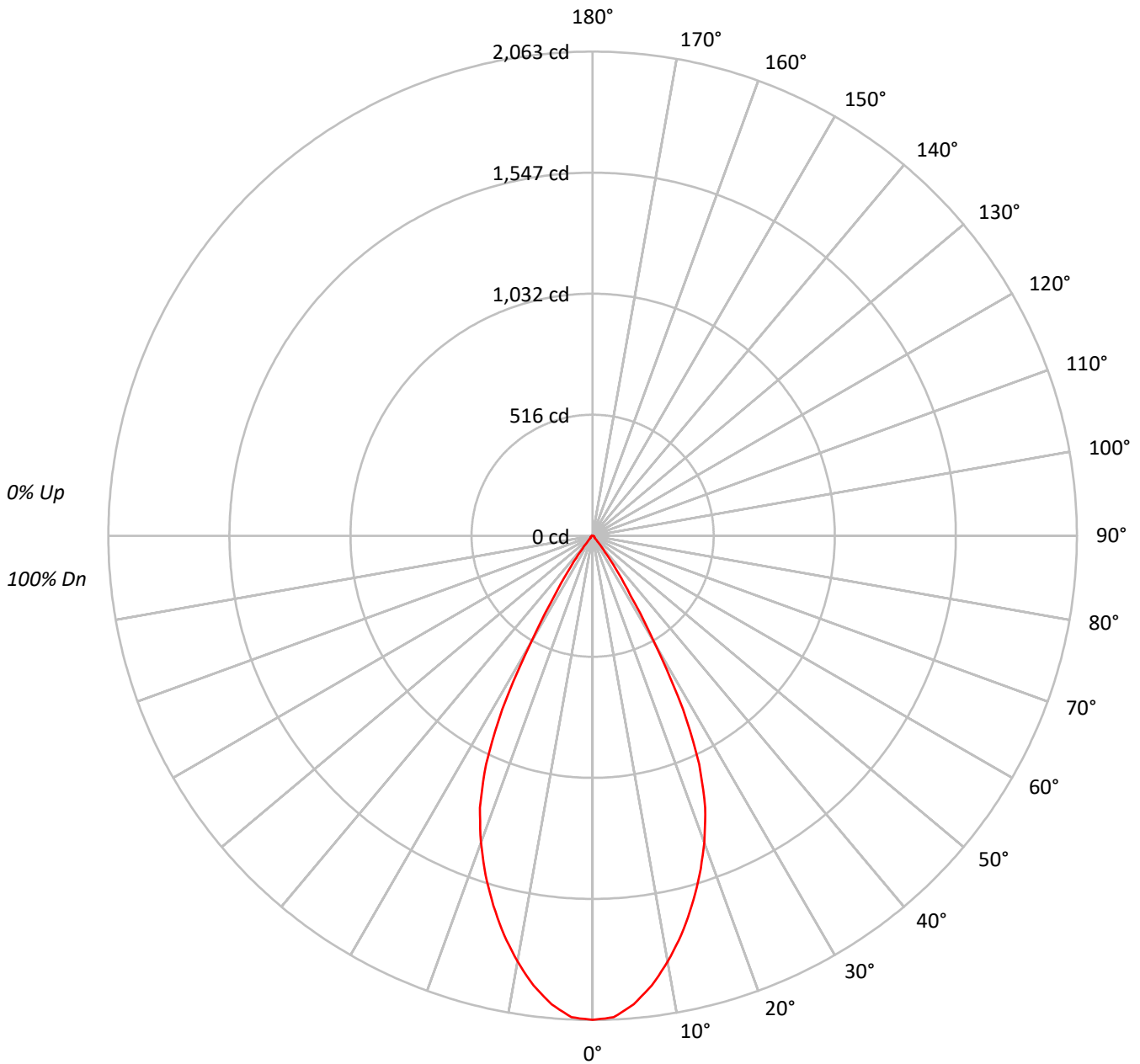
Lumens per Lamp: N/A
Luminaire Lumens: 1265.1 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Spacing Criteria (0/90/45): 0.8 / 0.8 / 0.76
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	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	114	111	109	107	112	109	107	105	105	104	102	102	100	99	98	97	96	94					94			
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89					89			
3	104	99	94	90	102	97	93	90	95	91	88	92	89	87	90	88	86	84					84			
4	100	93	88	84	98	92	87	84	90	86	83	88	85	82	86	83	81	80					80			
5	96	88	83	79	94	87	82	79	85	81	78	84	80	77	82	79	77	75					75			
6	92	84	78	74	90	83	78	74	81	77	74	80	76	73	79	75	73	71					71			
7	88	79	74	70	86	79	74	70	78	73	70	76	72	69	75	72	69	68					68			
8	84	76	70	67	83	75	70	67	74	70	66	73	69	66	72	68	66	65					65			
9	81	72	67	63	80	72	67	63	71	66	63	70	66	63	69	65	63	61					61			
10	78	69	64	60	77	68	64	60	68	63	60	67	63	60	66	62	60	59					59			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	452288
5°	441139
10°	410124
15°	370536
20°	324478
25°	259805
30°	132729
35°	44009
40°	11679
45°	4093
50°	3753
55°	3785
60°	3859
65°	3424
70°	3526
75°	3728
80°	4167
85°	2768

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 80°
 Luminance: 4167 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.1	14.7
10°-20°	454.5	35.9
20°-30°	464.9	36.8
30°-40°	124.8	9.9
40°-50°	13.1	1.0
50°-60°	8.6	0.7
60°-70°	6.9	0.5
70°-80°	4.6	0.4
80°-90°	1.3	0.1
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°	1105.6	87.4
0°-40°	1230.4	97.3
0°-60°	1252.2	99.0
0°-90°	1265.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1265.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2063	
5°	2004	186
15°	1632	455
25°	1074	465
35°	164	125
45°	13	13
55°	10	9
65°	7	7
75°	4	5
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2062.6
2.5°	2053.7
5°	2004.1
7.5°	1932.4
10°	1841.9
12.5°	1742.5
15°	1632.2
17.5°	1515.2
20°	1390.5
22.5°	1253.7
25°	1073.8
27.5°	833.2
30°	524.2
32.5°	299.1
35°	164.4
37.5°	85.0
40°	40.8
42.5°	17.7
45°	13.2
47.5°	12.1
50°	11.0
52.5°	9.9
55°	9.9
57.5°	8.8
60°	8.8
62.5°	7.7
65°	6.6
67.5°	6.6
70°	5.5
72.5°	5.5
75°	4.4
77.5°	3.3
80°	3.3
82.5°	2.2
85°	1.1
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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