

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: P886564

Luminaire Tested: ML310LSFL95FS1E-TIR4D25NFL-TL3RDSL-850LM-3500K

Issue Date: 7/18/2024

Test Information

Test Method: LM-79-2019
Report Number: P886564
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 7/18/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML310LSFL95FS1E-TIR4D25NFL-TL3RDSL-850LM-3500K
Description: 3IN ROUND ML FLEX, SELECTABLE CCT, WITH 25D TIR, METALLIC SILVER TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 3500K CCT
Ballast/Driver: -

Summary

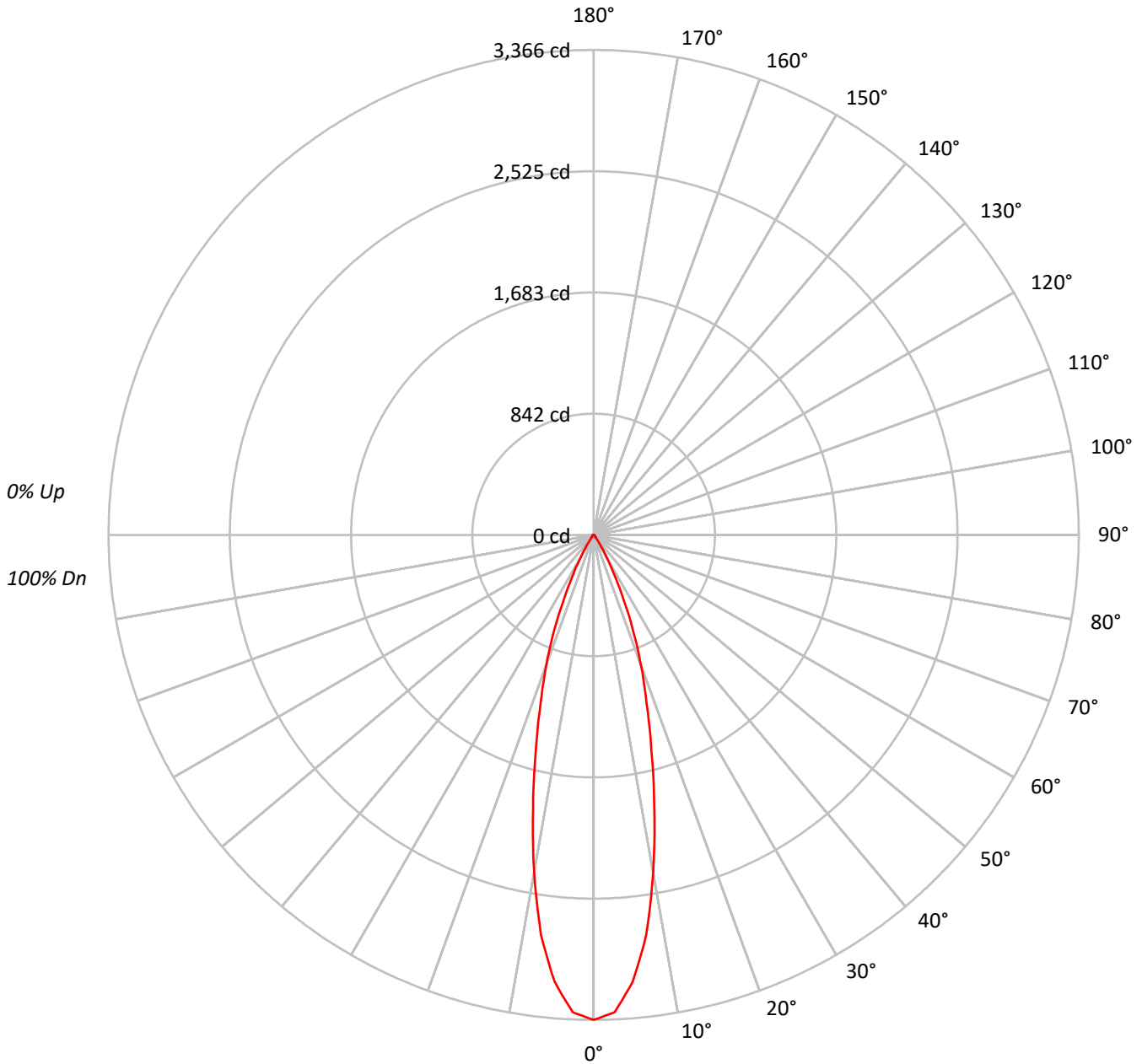
Lumens per Lamp: N/A
Luminaire Lumens: 1011.6 lumens
Efficiency: N/A
Efficacy: 74.4 lumens/watt
Spacing Criteria (0/90/45): 0.47 / 0.47 / 0.5
Luminous Opening: Circular (Dia: 0.25' x H: 0')CIE Type: Direct

Input Watts (W): 13.6
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	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	112	110	108	112	110	108	106	106	105	103	102	101	100	99	98	97	96									96																			
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91									91																			
3	106	101	97	94	104	100	96	93	97	94	92	95	92	90	93	91	89	87									87																			
4	102	96	92	89	101	95	91	88	93	90	87	91	88	86	90	87	85	84									84																			
5	99	92	88	84	97	91	87	84	90	86	83	88	85	83	87	84	82	81									81																			
6	95	89	84	81	94	88	83	80	86	83	80	85	82	79	84	81	79	78									78																			
7	92	85	80	77	91	85	80	77	83	79	77	82	79	76	81	78	76	75									75																			
8	89	82	77	74	88	82	77	74	81	77	74	80	76	74	79	76	73	72									72																			
9	87	79	75	72	86	79	74	71	78	74	71	77	74	71	76	73	71	70									70																			
10	84	77	72	69	83	76	72	69	75	72	69	75	71	69	74	71	69	68									68																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	738033
5°	685206
10°	529471
15°	351353
20°	223693
25°	115023
30°	46286
35°	15606
40°	6126
45°	4528
50°	3991
55°	3708
60°	3815
65°	4047
70°	3719
75°	4151
80°	3662
85°	2516

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4528 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.8	27.1
10°-20°	431.4	42.6
20°-30°	227.6	22.5
30°-40°	44.8	4.4
40°-50°	11.8	1.2
50°-60°	9.0	0.9
60°-70°	7.3	0.7
70°-80°	4.8	0.5
80°-90°	1.2	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°	932.8	92.2
0°-40°	977.6	96.6
0°-60°	998.3	98.7
0°-90°	1011.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1011.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3366	
5°	3113	274
15°	1548	431
25°	475	228
35°	58	45
45°	15	12
55°	10	9
65°	8	7
75°	5	5
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3365.7
2.5°	3316.1
5°	3112.9
7.5°	2798.9
10°	2377.9
12.5°	1943.4
15°	1547.7
17.5°	1220.1
20°	958.6
22.5°	709.7
25°	475.4
27.5°	303.3
30°	182.8
32.5°	106.0
35°	58.3
37.5°	31.1
40°	21.4
42.5°	17.5
45°	14.6
47.5°	12.6
50°	11.7
52.5°	10.7
55°	9.7
57.5°	9.7
60°	8.7
62.5°	7.8
65°	7.8
67.5°	6.8
70°	5.8
72.5°	4.9
75°	4.9
77.5°	3.9
80°	2.9
82.5°	1.9
85°	1.0
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)