

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: P886594

Luminaire Tested: ML310LSFL95FS1E-TIR4D40FL-TL3RDSL-850LM-3500K

Issue Date: 7/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P886594
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-5)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 7/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML310LSFL95FS1E-TIR4D40FL-TL3RDSL-850LM-3500K
Description: 3IN ROUND ML FLEX, SELECTABLE CCT, WITH 40D TIR, METALLIC SILVER TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 3500K CCT
Ballast/Driver: -

Summary

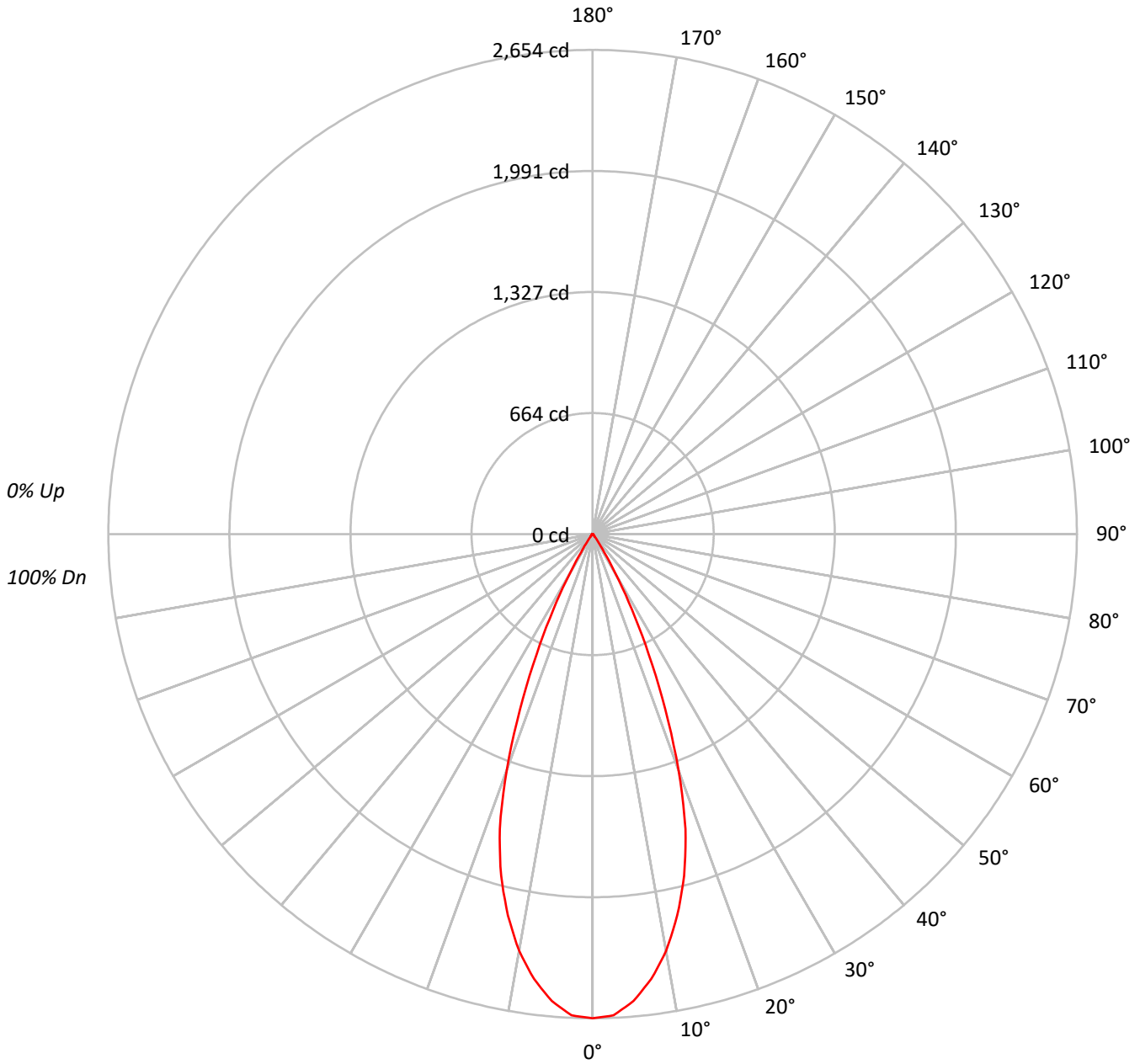
Lumens per Lamp: N/A
Luminaire Lumens: 1173.9 lumens
Efficiency: N/A
Efficacy: 86.3 lumens/watt
Spacing Criteria (0/90/45): 0.67 / 0.67 / 0.63
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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									
RC	80									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				100															
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95				95															
2	110	106	103	100	108	104	101	99	101	99	96	98	96	94	95	94	92	91				91															
3	106	100	96	93	104	99	95	92	97	94	91	94	92	90	92	90	88	87				87															
4	102	96	91	88	100	95	90	87	93	89	86	91	88	85	89	86	84	83				83															
5	98	91	87	83	97	90	86	83	89	85	82	87	84	81	86	83	81	79				79															
6	94	87	82	79	93	87	82	79	85	81	78	84	80	78	83	80	77	76				76															
7	91	84	79	75	90	83	78	75	82	78	75	81	77	75	80	77	74	73				73															
8	88	80	75	72	87	80	75	72	79	75	72	78	74	71	77	74	71	70				70															
9	85	77	72	69	84	77	72	69	76	72	69	75	71	69	74	71	68	67				67															
10	82	74	70	66	81	74	69	66	73	69	66	72	69	66	72	68	66	65				65															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	582015
5°	565418
10°	516579
15°	440003
20°	320791
25°	175583
30°	62972
35°	14295
40°	5840
45°	2698
50°	2320
55°	2217
60°	2544
65°	2542
70°	2500
75°	2457
80°	2399
85°	2516

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 82.5°
 Luminance: 3192 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.2	20.2
10°-20°	526.7	44.9
20°-30°	336.5	28.7
30°-40°	50.5	4.3
40°-50°	8.1	0.7
50°-60°	5.5	0.5
60°-70°	4.8	0.4
70°-80°	3.3	0.3
80°-90°	1.0	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°	1100.5	93.7
0°-40°	1151.0	98.1
0°-60°	1164.7	99.2
0°-90°	1173.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1173.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2654	
5°	2569	237
15°	1938	527
25°	726	337
35°	53	51
45°	9	8
55°	6	6
65°	5	5
75°	3	3
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2654.2
2.5°	2640.6
5°	2568.7
7.5°	2459.9
10°	2320.0
12.5°	2142.2
15°	1938.2
17.5°	1693.4
20°	1374.7
22.5°	1039.5
25°	725.7
27.5°	464.4
30°	248.7
32.5°	117.6
35°	53.4
37.5°	32.1
40°	20.4
42.5°	12.6
45°	8.7
47.5°	7.8
50°	6.8
52.5°	6.8
55°	5.8
57.5°	5.8
60°	5.8
62.5°	4.9
65°	4.9
67.5°	4.9
70°	3.9
72.5°	3.9
75°	2.9
77.5°	2.9
80°	1.9
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)