

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: P886588

Luminaire Tested: ML310LSFL95FS1E-TIR4D40FL-TL3RDMW-850LM-3000K

Issue Date: 7/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P886588
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-4)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 7/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML310LSFL95FS1E-TIR4D40FL-TL3RDMW-850LM-3000K
Description: 3IN ROUND ML FLEX, SELECTABLE CCT, WITH 40D TIR, MATTE WHITE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 3000K CCT
Ballast/Driver: -

Summary

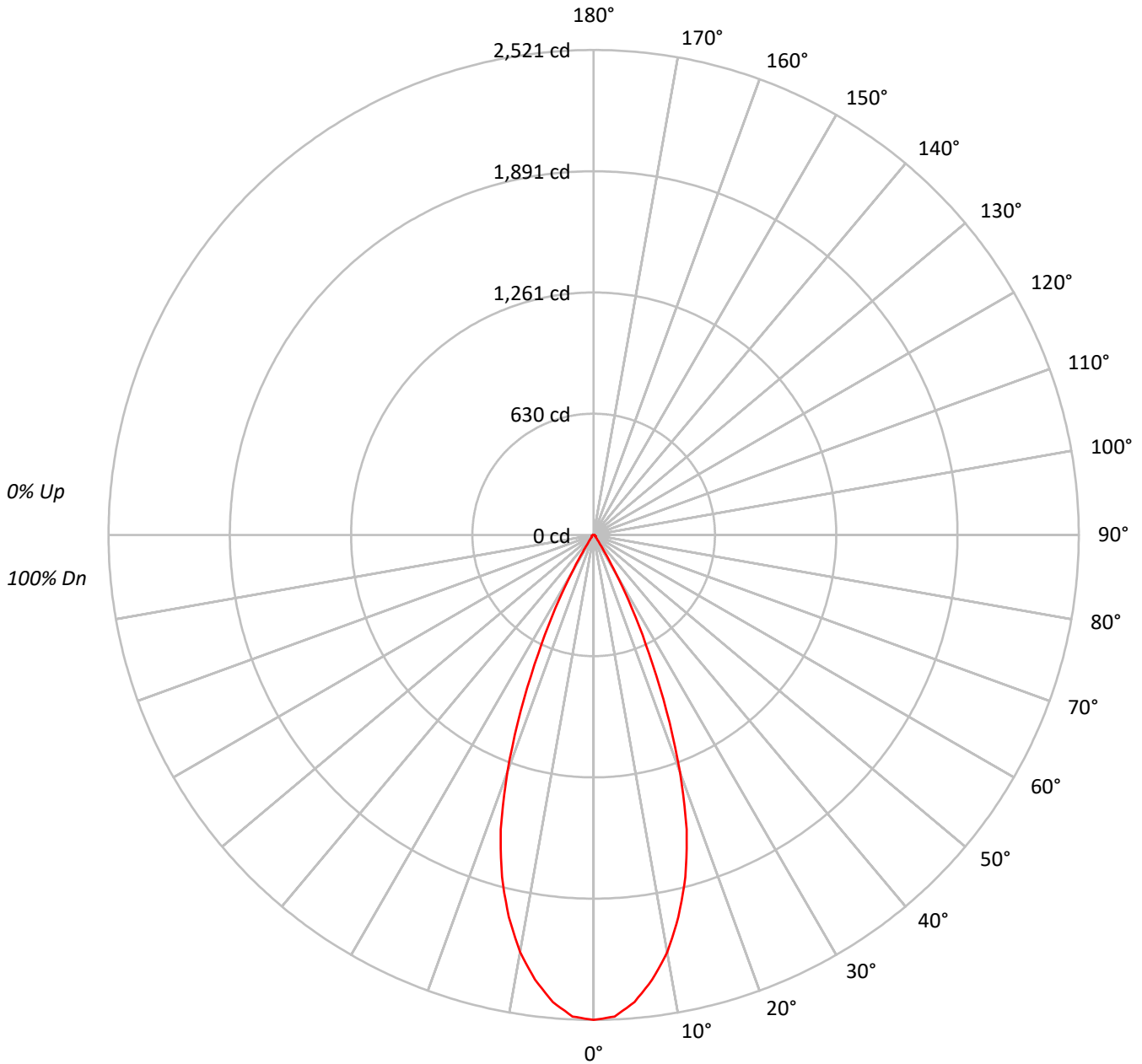
Lumens per Lamp: N/A
Luminaire Lumens: 1128.4 lumens
Efficiency: N/A
Efficacy: 83.0 lumens/watt
Spacing Criteria (0/90/45): 0.67 / 0.67 / 0.62
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	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	105	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90			90	
3	105	100	96	92	103	99	95	92	96	93	90	94	91	89	92	89	87	86			86	
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	83	82			82	
5	97	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	79			79	
6	94	87	82	78	93	86	81	78	84	80	77	83	80	77	82	79	76	75			75	
7	91	83	78	75	89	82	78	74	81	77	74	80	76	74	79	76	73	72			72	
8	87	80	75	71	86	79	74	71	78	74	71	77	73	71	76	73	70	69			69	
9	84	76	72	68	83	76	71	68	75	71	68	74	71	68	74	70	68	67			67	
10	81	74	69	66	81	73	69	66	72	68	65	72	68	65	71	68	65	64			64	

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	552807
5°	536472
10°	490305
15°	418073
20°	305460
25°	164163
30°	57173
35°	13599
40°	6469
45°	4373
50°	4162
55°	4664
60°	4561
65°	4877
70°	4809
75°	4745
80°	4799
85°	4780

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 62.5°
 Luminance: 4939 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.0	19.9
10°-20°	500.2	44.3
20°-30°	316.9	28.1
30°-40°	46.9	4.2
40°-50°	11.7	1.0
50°-60°	10.5	0.9
60°-70°	9.2	0.8
70°-80°	5.9	0.5
80°-90°	2.0	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°	1042.1	92.4
0°-40°	1089.0	96.5
0°-60°	1111.2	98.5
0°-90°	1128.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1128.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2521	
5°	2437	225
15°	1842	500
25°	678	317
35°	51	47
45°	14	12
55°	12	11
65°	9	9
75°	6	6
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2521.0
2.5°	2505.9
5°	2437.2
7.5°	2331.8
10°	2202.0
12.5°	2034.5
15°	1841.6
17.5°	1605.4
20°	1309.0
22.5°	989.9
25°	678.5
27.5°	431.0
30°	225.8
32.5°	103.5
35°	50.8
37.5°	33.9
40°	22.6
42.5°	16.0
45°	14.1
47.5°	13.2
50°	12.2
52.5°	12.2
55°	12.2
57.5°	11.3
60°	10.4
62.5°	10.4
65°	9.4
67.5°	8.5
70°	7.5
72.5°	6.6
75°	5.6
77.5°	4.7
80°	3.8
82.5°	2.8
85°	1.9
87.5°	0.9
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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