

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: P885631

Luminaire Tested: ML104LSFL95FS1E-TIR1D25NFL-TL1RDMW-340LM-4000K

Issue Date: 7/18/2024

Test Information

Test Method: LM-79-2019
Report Number: P885631
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-118)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 7/18/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML104LSFL95FS1E-TIR1D25NFL-TL1RDMW-340LM-4000K
Description: 1IN ROUND ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE WHITE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 4000K CCT
Ballast/Driver: -

Summary

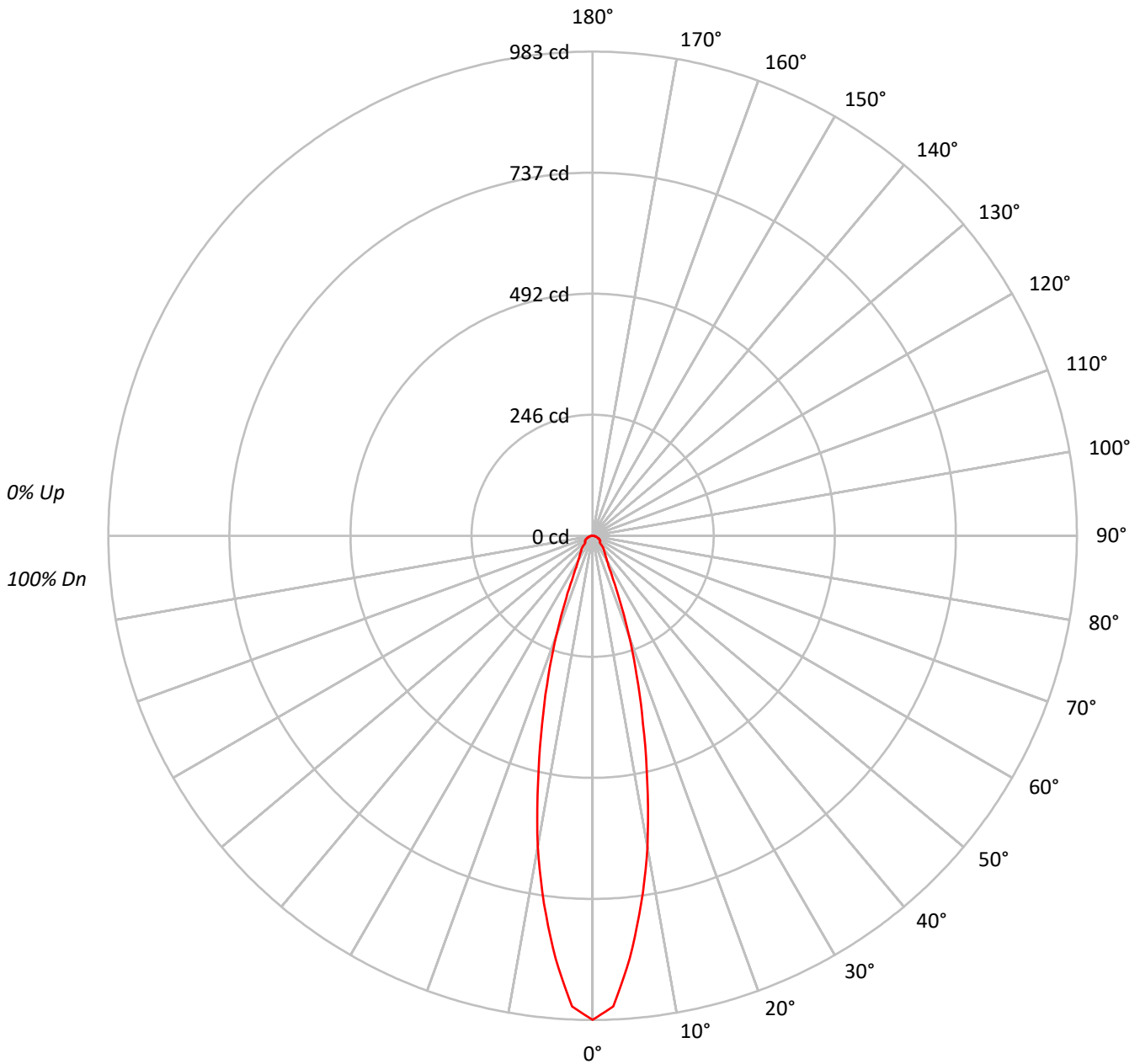
Lumens per Lamp: N/A
Luminaire Lumens: 321.7 lumens
Efficiency: N/A
Efficacy: 52.7 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.46
Luminous Opening: Circular (Dia: 0.08' x H: 0')
CIE Type: Direct

Input Watts (W): 6.1
Input Voltage (V): NR
Input Current (Ain): 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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92				92															
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85				85															
3	102	95	90	86	100	94	89	85	91	87	84	89	85	83	86	84	81	80				80															
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75				75															
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71				71															
6	89	80	74	70	87	79	74	70	78	73	70	77	72	69	75	72	69	67				67															
7	85	76	71	67	84	76	70	67	75	70	66	73	69	66	72	68	66	64				64															
8	82	73	68	64	81	73	67	64	72	67	63	71	66	63	70	66	63	61				61															
9	79	70	65	61	78	70	64	61	69	64	61	68	64	60	67	63	60	59				59															
10	76	67	62	59	75	67	62	59	66	62	58	66	61	58	65	61	58	57				57															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1939597
5°	1707097
10°	1285558
15°	807049
20°	451333
25°	215579
30°	131945
35°	104080
40°	89654
45°	61681
50°	61406
55°	65375
60°	66706
65°	63976
70°	60588
75°	56426
80°	47734
85°	47552

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 60°
 Luminance: 66706 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.3	23.4
10°-20°	109.5	34.0
20°-30°	50.4	15.7
30°-40°	27.5	8.5
40°-50°	19.0	5.9
50°-60°	16.7	5.2
60°-70°	13.3	4.1
70°-80°	7.8	2.4
80°-90°	2.3	0.7
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°	235.2	73.1
0°-40°	262.7	81.7
0°-60°	298.4	92.7
0°-90°	321.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	321.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	983	
5°	862	75
15°	395	110
25°	99	50
35°	43	28
45°	22	19
55°	19	17
65°	14	13
75°	7	8
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	982.8
2.5°	956.5
5°	861.7
7.5°	754.2
10°	641.5
12.5°	510.9
15°	395.0
17.5°	298.1
20°	214.9
22.5°	146.4
25°	99.0
27.5°	71.6
30°	57.9
32.5°	49.5
35°	43.2
37.5°	37.9
40°	34.8
42.5°	29.5
45°	22.1
47.5°	20.0
50°	20.0
52.5°	19.0
55°	19.0
57.5°	17.9
60°	16.9
62.5°	14.7
65°	13.7
67.5°	11.6
70°	10.5
72.5°	8.4
75°	7.4
77.5°	6.3
80°	4.2
82.5°	3.2
85°	2.1
87.5°	1.1
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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