

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: P885634

Luminaire Tested: ML104LSFL95FS1E-TIR1D25NFL-TL1RDMWB-340LM-3000K

Issue Date: 7/18/2024

Test Information

Test Method: LM-79-2019
Report Number: P885634
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-121)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 7/18/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML104LSFL95FS1E-TIR1D25NFL-TL1RDMWB-340LM-3000K
Description: 1IN ROUND ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE WHITE BAFFLED TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 3000K CCT
Ballast/Driver: -

Summary

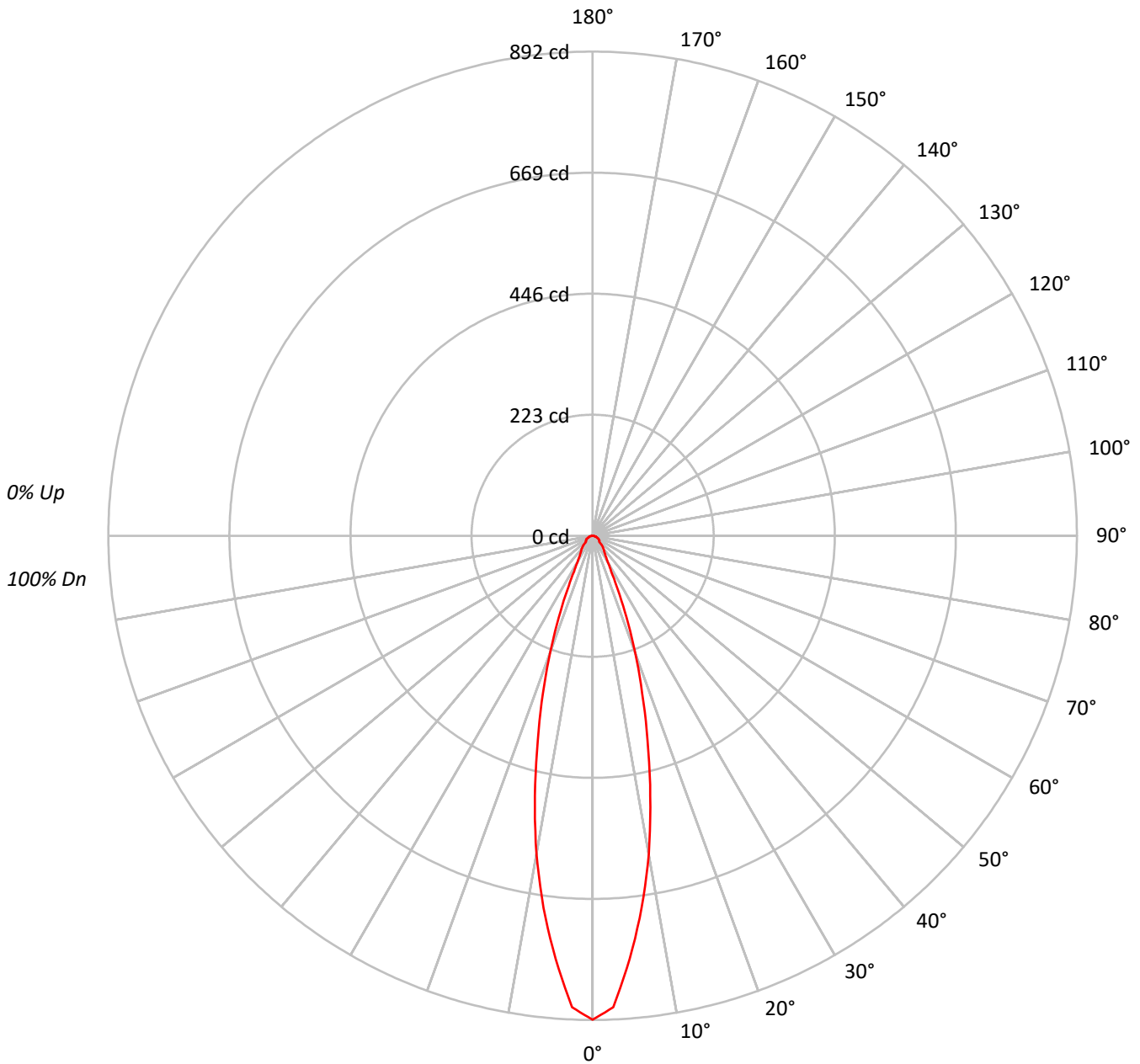
Lumens per Lamp: N/A
Luminaire Lumens: 303.6 lumens
Efficiency: N/A
Efficacy: 49.8 lumens/watt
Spacing Criteria (0/90/45): 0.45 / 0.45 / 0.48
Luminous Opening: Circular (Dia: 0.08' x H: 0')
CIE Type: Direct

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				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	100	100
1	113	110	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93	93	93	93
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86	86	86	86
3	103	96	91	87	101	95	90	87	92	88	85	90	87	84	87	85	83	81	81	81	81
4	98	91	85	81	96	89	84	81	87	83	80	85	82	79	83	80	78	76	76	76	76
5	94	86	80	76	92	85	80	76	83	78	75	81	77	74	80	76	74	72	72	72	72
6	90	81	76	72	88	81	75	71	79	74	71	78	74	71	76	73	70	69	69	69	69
7	86	78	72	68	85	77	72	68	76	71	68	75	70	67	73	70	67	66	66	66	66
8	83	74	69	65	82	74	68	65	73	68	65	72	67	64	71	67	64	63	63	63	63
9	80	71	66	62	79	71	66	62	70	65	62	69	65	62	68	64	61	60	60	60	60
10	77	68	63	60	76	68	63	60	67	63	59	66	62	59	66	62	59	58	58	58	58

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1759610
5°	1549799
10°	1193174
15°	796220
20°	479055
25°	238225
30°	125565
35°	92274
40°	79349
45°	65310
50°	48818
55°	51611
60°	51707
65°	48099
70°	43277
75°	42701
80°	31822
85°	20379

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 65310 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.9	22.7
10°-20°	107.8	35.5
20°-30°	54.0	17.8
30°-40°	25.0	8.2
40°-50°	17.4	5.7
50°-60°	13.3	4.4
60°-70°	10.4	3.4
70°-80°	5.5	1.8
80°-90°	1.4	0.5
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°	230.7	76.0
0°-40°	255.7	84.2
0°-60°	286.3	94.3
0°-90°	303.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	303.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	892	
5°	782	69
15°	390	108
25°	109	54
35°	38	25
45°	23	17
55°	15	13
65°	10	10
75°	6	6
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	891.6
2.5°	869.2
5°	782.3
7.5°	691.6
10°	595.4
12.5°	490.7
15°	389.7
17.5°	303.8
20°	228.1
22.5°	162.6
25°	109.4
27.5°	73.8
30°	55.1
32.5°	44.9
35°	38.3
37.5°	34.6
40°	30.8
42.5°	27.1
45°	23.4
47.5°	16.8
50°	15.9
52.5°	15.9
55°	15.0
57.5°	14.0
60°	13.1
62.5°	12.2
65°	10.3
67.5°	9.3
70°	7.5
72.5°	6.5
75°	5.6
77.5°	3.7
80°	2.8
82.5°	1.9
85°	0.9
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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(END OF REPORT)