

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: P885635

Luminaire Tested: ML104LSFL95FS1E-TIR1D25NFL-TL1RDMWB-340LM-3500K

Issue Date: 7/18/2024

Test Information

Test Method: LM-79-2019
Report Number: P885635
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-3500K
Description: 1IN ROUND ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE WHITE BAFFLED TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 3500K CCT
Ballast/Driver: -

Summary

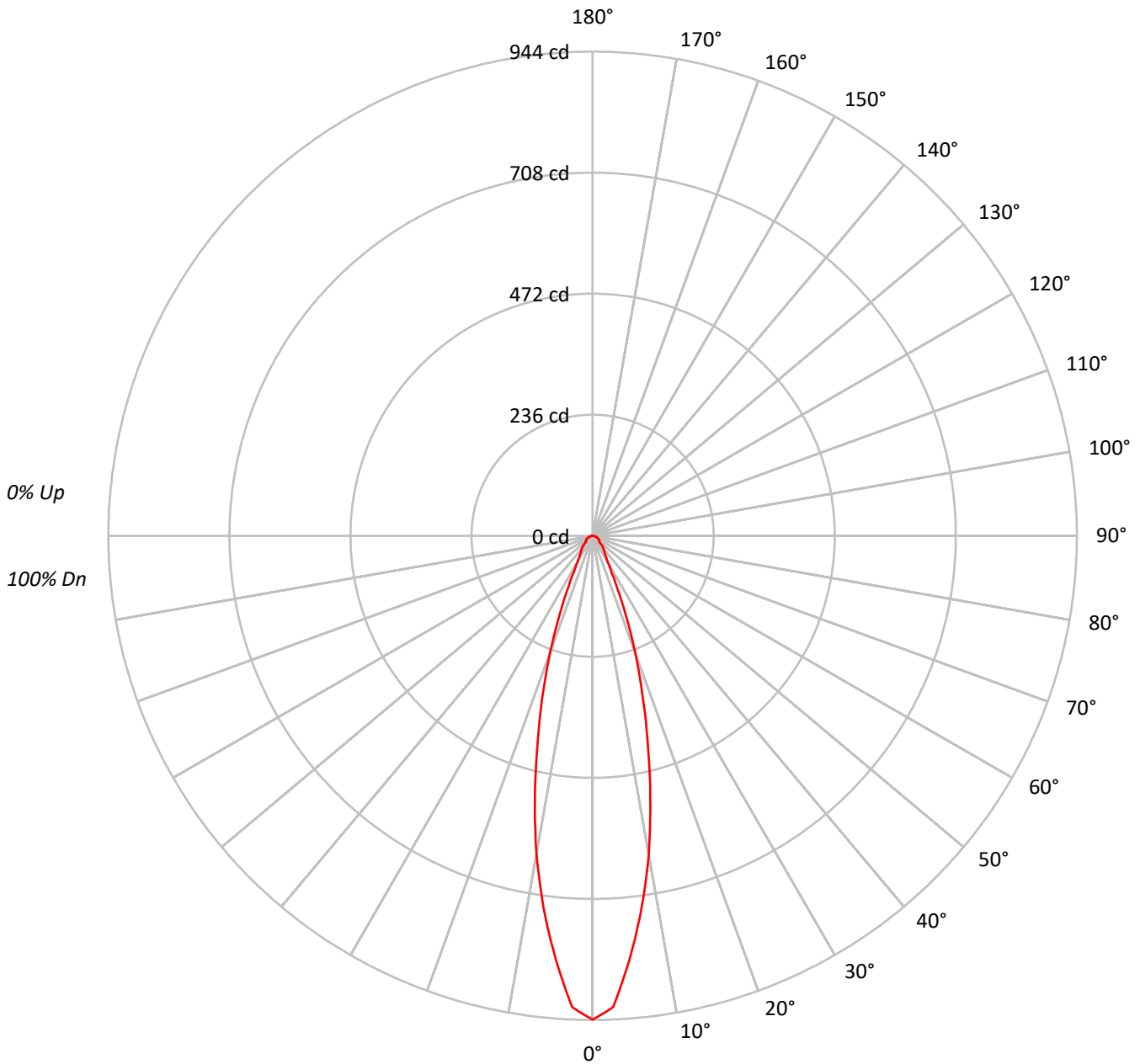
Lumens per Lamp: N/A
Luminaire Lumens: 321.3 lumens
Efficiency: N/A
Efficacy: 52.7 lumens/watt
Spacing Criteria (0/90/45): 0.45 / 0.45 / 0.48
Luminous Opening: Circular (Dia: 0.08' x H: 0')
CIE Type: Direct

Input Watts (W): 6.1
Input Voltage (V): NR
Input Current (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	113	110	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93				93															
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86				86															
3	103	96	91	87	101	95	90	87	92	88	85	90	87	84	87	85	83	81				81															
4	98	91	85	81	96	89	84	81	87	83	80	85	82	79	83	80	78	76				76															
5	94	86	80	76	92	85	79	76	83	78	75	81	77	74	80	76	74	72				72															
6	90	81	76	72	88	81	75	71	79	74	71	78	74	71	76	73	70	69				69															
7	86	78	72	68	85	77	72	68	76	71	68	75	70	67	73	70	67	66				66															
8	83	74	69	65	82	74	68	65	73	68	65	72	67	64	71	67	64	63				63															
9	80	71	66	62	79	71	66	62	70	65	62	69	65	62	68	64	61	60				60															
10	77	68	63	60	76	68	63	60	67	63	59	66	62	59	66	62	59	58				58															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1862037
5°	1639938
10°	1262512
15°	842600
20°	506778
25°	251944
30°	133085
35°	97816
40°	83987
45°	68938
50°	51581
55°	54364
60°	54470
65°	50901
70°	45585
75°	44989
80°	34096
85°	22644

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 68938 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.9	22.7
10°-20°	114.0	35.5
20°-30°	57.2	17.8
30°-40°	26.4	8.2
40°-50°	18.4	5.7
50°-60°	14.0	4.4
60°-70°	11.0	3.4
70°-80°	5.9	1.8
80°-90°	1.5	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°	244.1	76.0
0°-40°	270.5	84.2
0°-60°	302.9	94.3
0°-90°	321.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	321.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	944	
5°	828	73
15°	412	114
25°	116	57
35°	41	26
45°	25	18
55°	16	14
65°	11	11
75°	6	6
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	943.5
2.5°	919.8
5°	827.8
7.5°	731.9
10°	630.0
12.5°	519.2
15°	412.4
17.5°	321.4
20°	241.3
22.5°	172.1
25°	115.7
27.5°	78.1
30°	58.4
32.5°	47.5
35°	40.6
37.5°	36.6
40°	32.6
42.5°	28.7
45°	24.7
47.5°	17.8
50°	16.8
52.5°	16.8
55°	15.8
57.5°	14.8
60°	13.8
62.5°	12.9
65°	10.9
67.5°	9.9
70°	7.9
72.5°	6.9
75°	5.9
77.5°	4.0
80°	3.0
82.5°	2.0
85°	1.0
87.5°	1.0
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)