

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: P885691

Luminaire Tested: ML104LSFL95FS1E-TIR1D40FL-TL1RDMW-340LM-4000K

Issue Date: 6/19/2024

Test Information

Test Method: LM-79-2019
Report Number: P885691
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-124)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/19/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML104LSFL95FS1E-TIR1D40FL-TL1RDMW-340LM-4000K
Description: 1IN ROUND ML FLEX, SELECTABLE CCT, WITH 40D TIR, MATTE WHITE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 450.5 lumens
Efficiency: N/A
Efficacy: 73.9 lumens/watt
Spacing Criteria (0/90/45): 0.65 / 0.65 / 0.65
Luminous Opening: Circular (Dia: 0.08' x H: 0')
CIE Type: Direct

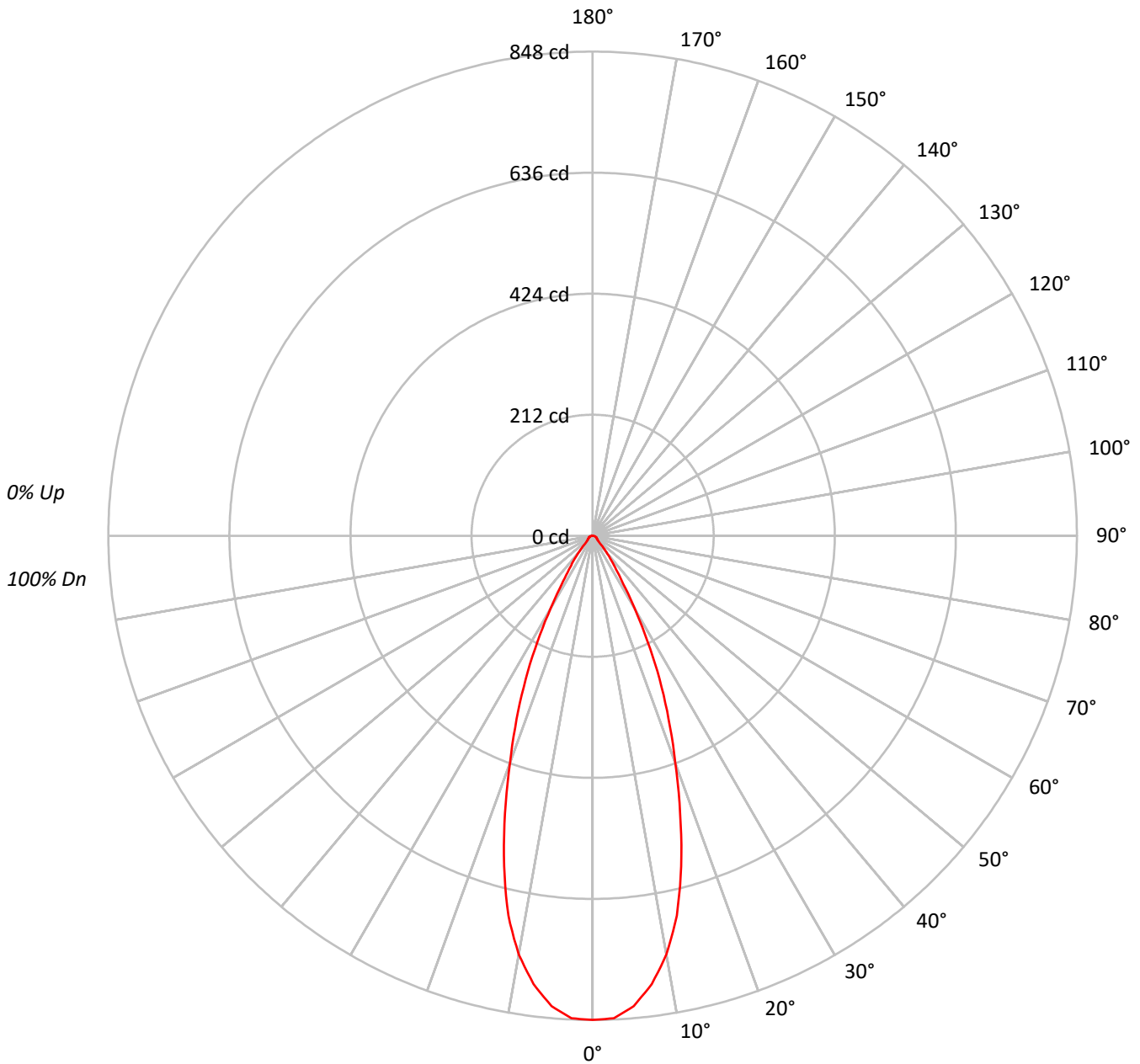
Input Watts (W): 6.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	114	111	108	106	111	109	106	105	105	103	101	101	100	98	98	96	95	94		
2	108	104	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88		
3	103	97	93	89	101	96	92	88	93	90	87	91	88	85	89	86	84	83		
4	99	92	87	83	97	91	86	82	88	84	81	87	83	80	85	82	79	78		
5	94	87	81	77	93	86	81	77	84	80	76	82	79	76	81	78	75	74		
6	90	82	77	73	89	81	76	73	80	75	72	79	75	72	77	74	71	70		
7	87	78	73	69	85	78	72	69	76	72	68	75	71	68	74	70	68	66		
8	83	75	69	65	82	74	69	65	73	68	65	72	68	65	71	67	64	63		
9	80	71	66	62	79	71	66	62	70	65	62	69	65	62	68	64	61	60		
10	77	68	63	59	76	68	63	59	67	62	59	66	62	59	65	62	59	58		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1673366
5°	1637957
10°	1492369
15°	1224466
20°	887124
25°	603185
30°	333624
35°	172502
40°	97641
45°	44098
50°	35615
55°	32687
60°	33156
65°	34557
70°	30582
75°	32026
80°	36369
85°	24908

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 87.5°
 Luminance: 49769 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.3	16.9
10°-20°	163.5	36.3
20°-30°	125.6	27.9
30°-40°	48.5	10.8
40°-50°	14.9	3.3
50°-60°	8.6	1.9
60°-70°	6.9	1.5
70°-80°	4.7	1.1
80°-90°	1.6	0.4
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°	365.3	81.1
0°-40°	413.7	91.8
0°-60°	437.2	97.1
0°-90°	450.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	450.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	848	
5°	827	76
15°	599	163
25°	277	126
35°	72	48
45°	16	15
55°	10	9
65°	7	7
75°	4	5
85°	1	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	847.9
2.5°	845.8
5°	826.8
7.5°	792.1
10°	744.7
12.5°	681.5
15°	599.3
17.5°	509.8
20°	422.4
22.5°	347.6
25°	277.0
27.5°	208.5
30°	146.4
32.5°	100.1
35°	71.6
37.5°	52.7
40°	37.9
42.5°	25.3
45°	15.8
47.5°	12.6
50°	11.6
52.5°	10.5
55°	9.5
57.5°	8.4
60°	8.4
62.5°	7.4
65°	7.4
67.5°	6.3
70°	5.3
72.5°	5.3
75°	4.2
77.5°	4.2
80°	3.2
82.5°	2.1
85°	1.1
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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