

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: P885835

Luminaire Tested: ML104LSFL9FS1E-TIR1D25NFL-TL1RDSL B-400LM-3500K

Issue Date: 7/18/2024

Test Information

Test Method: LM-79-2019
Report Number: P885835
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-122)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 7/18/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML104LSFL9FS1E-TIR1D25NFL-TL1RDSL B-400LM-3500K
Description: 1IN ROUND ML FLEX, SELECTABLE CCT, WITH 25D TIR, METALLIC SILVER BAFFLED TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 359.0 lumens
Efficiency: N/A
Efficacy: 59.8 lumens/watt
Spacing Criteria (0/90/45): 0.46 / 0.46 / 0.49
Luminous Opening: Circular (Dia: 0.08' x H: 0')
CIE Type: Direct

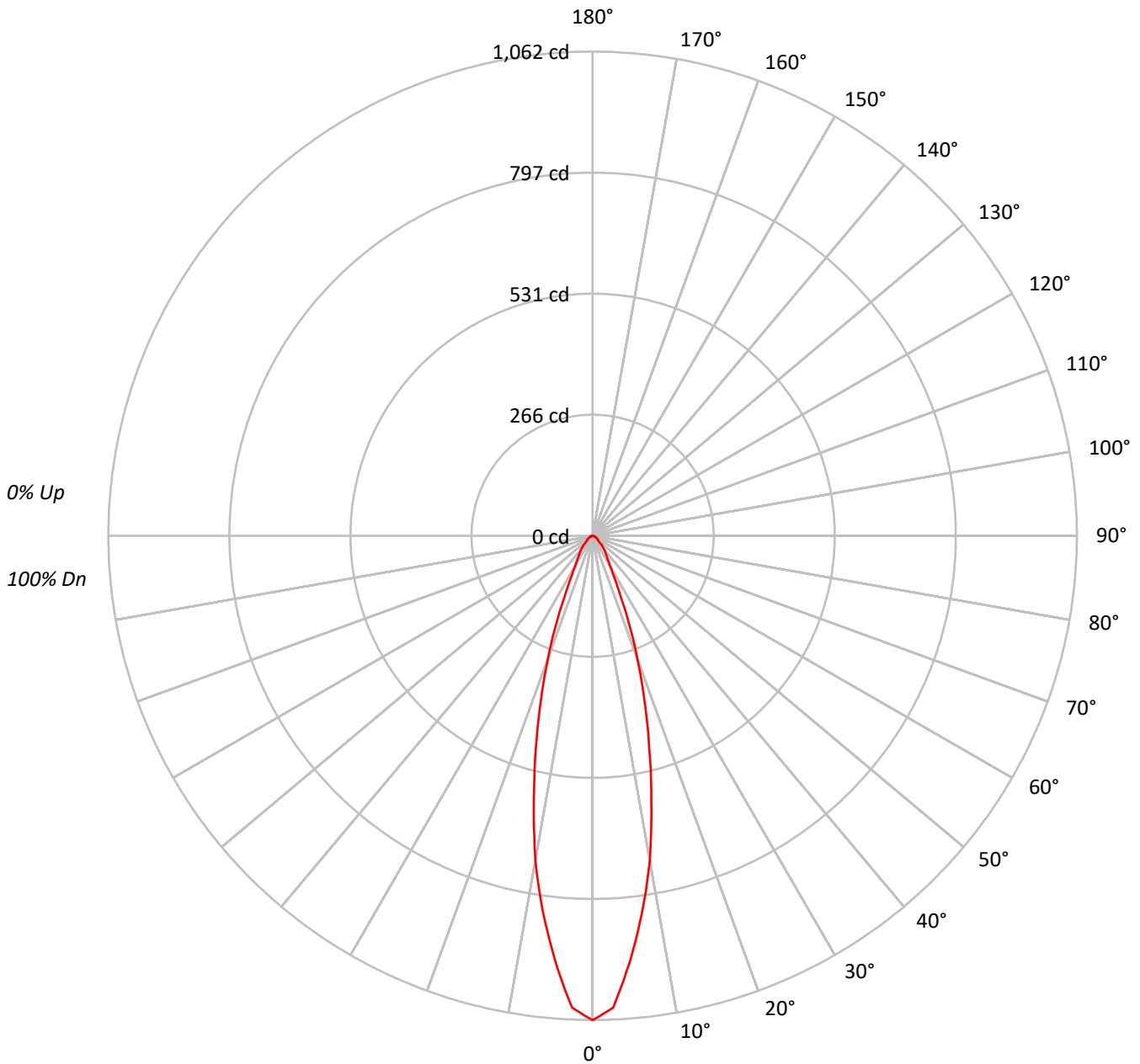
Input Watts (W): 6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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																			
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94																			
2	109	104	101	97	107	103	99	96	99	97	94	96	94	92	94	92	90	89																			
3	104	98	94	90	102	97	93	89	94	91	88	92	89	86	90	87	85	84																			
4	100	93	88	84	98	92	87	83	89	85	82	88	84	81	86	83	80	79																			
5	95	88	83	79	94	87	82	78	85	81	78	84	80	77	82	79	76	75																			
6	92	84	78	74	90	83	78	74	81	77	74	80	76	73	79	75	73	71																			
7	88	80	74	71	87	79	74	71	78	73	70	77	73	70	76	72	69	68																			
8	85	76	71	67	84	76	71	67	75	70	67	74	70	67	73	69	67	65																			
9	82	73	68	65	81	73	68	64	72	67	64	71	67	64	70	67	64	63																			
10	79	70	65	62	78	70	65	62	69	65	62	68	64	62	68	64	61	60																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2096691
5°	1856272
10°	1448081
15°	979696
20°	600447
25°	308996
30°	172965
35°	127208
40°	102021
45°	73683
50°	50660
55°	45418
60°	39076
65°	30821
70°	19042
75°	8388
80°	12502
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 73683 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.8	23.1
10°-20°	132.2	36.8
20°-30°	70.1	19.5
30°-40°	33.9	9.4
40°-50°	20.1	5.6
50°-60°	11.8	3.3
60°-70°	6.2	1.7
70°-80°	1.7	0.5
80°-90°	0.1	0.0
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°	285.1	79.4
0°-40°	319.0	88.9
0°-60°	350.8	97.7
0°-90°	359.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	359.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1062	
5°	937	83
15°	480	132
25°	142	70
35°	53	34
45°	26	20
55°	13	12
65°	7	6
75°	1	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1062.4
2.5°	1036.0
5°	937.0
7.5°	832.5
10°	722.6
12.5°	595.0
15°	479.5
17.5°	376.1
20°	285.9
22.5°	207.9
25°	141.9
27.5°	100.1
30°	75.9
32.5°	62.7
35°	52.8
37.5°	45.1
40°	39.6
42.5°	33.0
45°	26.4
47.5°	17.6
50°	16.5
52.5°	14.3
55°	13.2
57.5°	12.1
60°	9.9
62.5°	7.7
65°	6.6
67.5°	4.4
70°	3.3
72.5°	2.2
75°	1.1
77.5°	1.1
80°	1.1
82.5°	0.0
85°	0.0
87.5°	0.0
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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