

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: P885956

Luminaire Tested: ML104LSFL9FS1E-TIR1D55WFL-TL1RDSLb-400LM-4000K

Issue Date: 6/19/2024

Test Information

Test Method: LM-79-2019
Report Number: P885956
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-134)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/19/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML104LSFL9FS1E-TIR1D55WFL-TL1RDSL B-400LM-4000K
Description: 1IN ROUND ML FLEX, SELECTABLE CCT, WITH 55D TIR, METALLIC SILVER BAFFLED TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

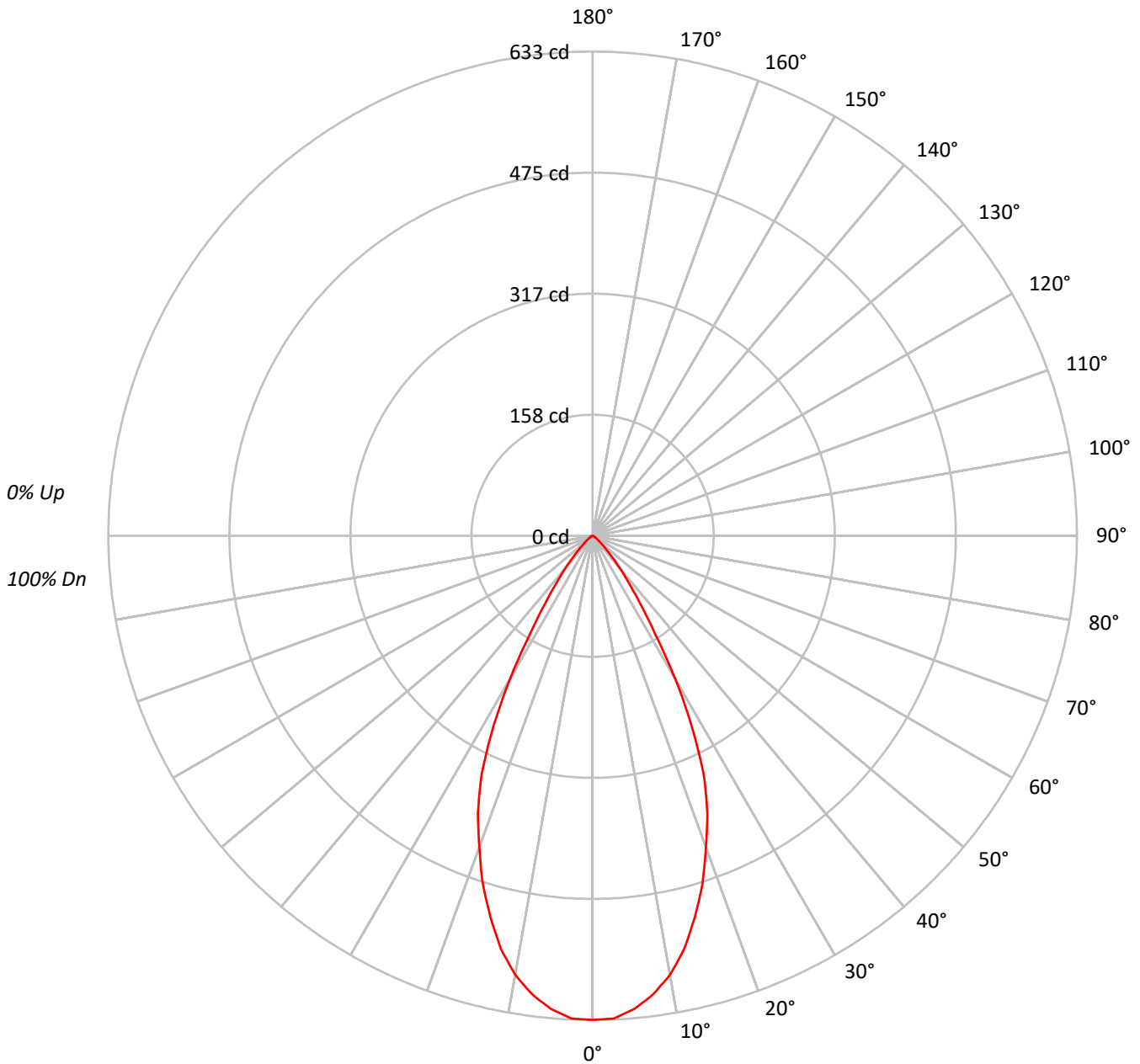
Lumens per Lamp: N/A
Luminaire Lumens: 455.5 lumens
Efficiency: N/A
Efficacy: 75.9 lumens/watt
Spacing Criteria (0/90/45): 0.81 / 0.81 / 0.79
Luminous Opening: Circular (Dia: 0.08' x H: 0')
CIE Type: Direct

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				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	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	108	104	100	97	106	102	98	95	99	96	93		96	93	91		93	91	90	88
3	103	97	92	89	101	96	91	88	93	89	86		91	88	85		88	86	84	82
4	98	91	86	82	97	90	85	81	88	84	80		86	82	79		84	81	79	77
5	94	86	80	76	92	85	80	76	83	79	75		81	77	74		80	76	74	72
6	89	81	75	71	88	80	75	71	79	74	70		77	73	70		76	72	69	68
7	85	76	71	67	84	76	70	66	74	70	66		73	69	66		72	68	65	64
8	81	72	67	63	80	72	66	63	71	66	62		70	65	62		69	65	62	60
9	78	69	63	59	77	68	63	59	67	62	59		66	62	59		65	61	58	57
10	74	65	60	56	73	65	59	56	64	59	56		63	59	56		62	58	55	54

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1249055
5°	1230647
10°	1167523
15°	1054067
20°	908966
25°	746251
30°	490408
35°	259235
40°	141695
45°	68659
50°	35922
55°	19956
60°	13815
65°	10741
70°	6924
75°	9150
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 68659 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.1	12.7
10°-20°	143.4	31.5
20°-30°	152.0	33.4
30°-40°	72.2	15.9
40°-50°	21.2	4.7
50°-60°	5.8	1.3
60°-70°	2.0	0.4
70°-80°	0.8	0.2
80°-90°	0.0	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°	353.5	77.6
0°-40°	425.7	93.5
0°-60°	452.7	99.4
0°-90°	455.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	455.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	633	
5°	621	58
15°	516	143
25°	343	152
35°	108	72
45°	25	21
55°	6	6
65°	2	2
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	632.9
2.5°	631.7
5°	621.2
7.5°	604.8
10°	582.6
12.5°	553.3
15°	515.9
17.5°	477.3
20°	432.8
22.5°	391.9
25°	342.7
27.5°	280.7
30°	215.2
32.5°	152.1
35°	107.6
37.5°	77.2
40°	55.0
42.5°	37.4
45°	24.6
47.5°	16.4
50°	11.7
52.5°	8.2
55°	5.8
57.5°	4.7
60°	3.5
62.5°	2.3
65°	2.3
67.5°	1.2
70°	1.2
72.5°	1.2
75°	1.2
77.5°	0.0
80°	0.0
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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