

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: P885947

Luminaire Tested: ML104LSFL9FS1E-TIR1D55WFL-TL1RDMWB-400LM-5000K

Issue Date: 6/19/2024

Test Information

Test Method: LM-79-2019
Report Number: P885947
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-133)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/19/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML104LSFL9FS1E-TIR1D55WFL-TL1RDMWB-400LM-5000K
Description: 1IN ROUND ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE WHITE BAFFLED TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

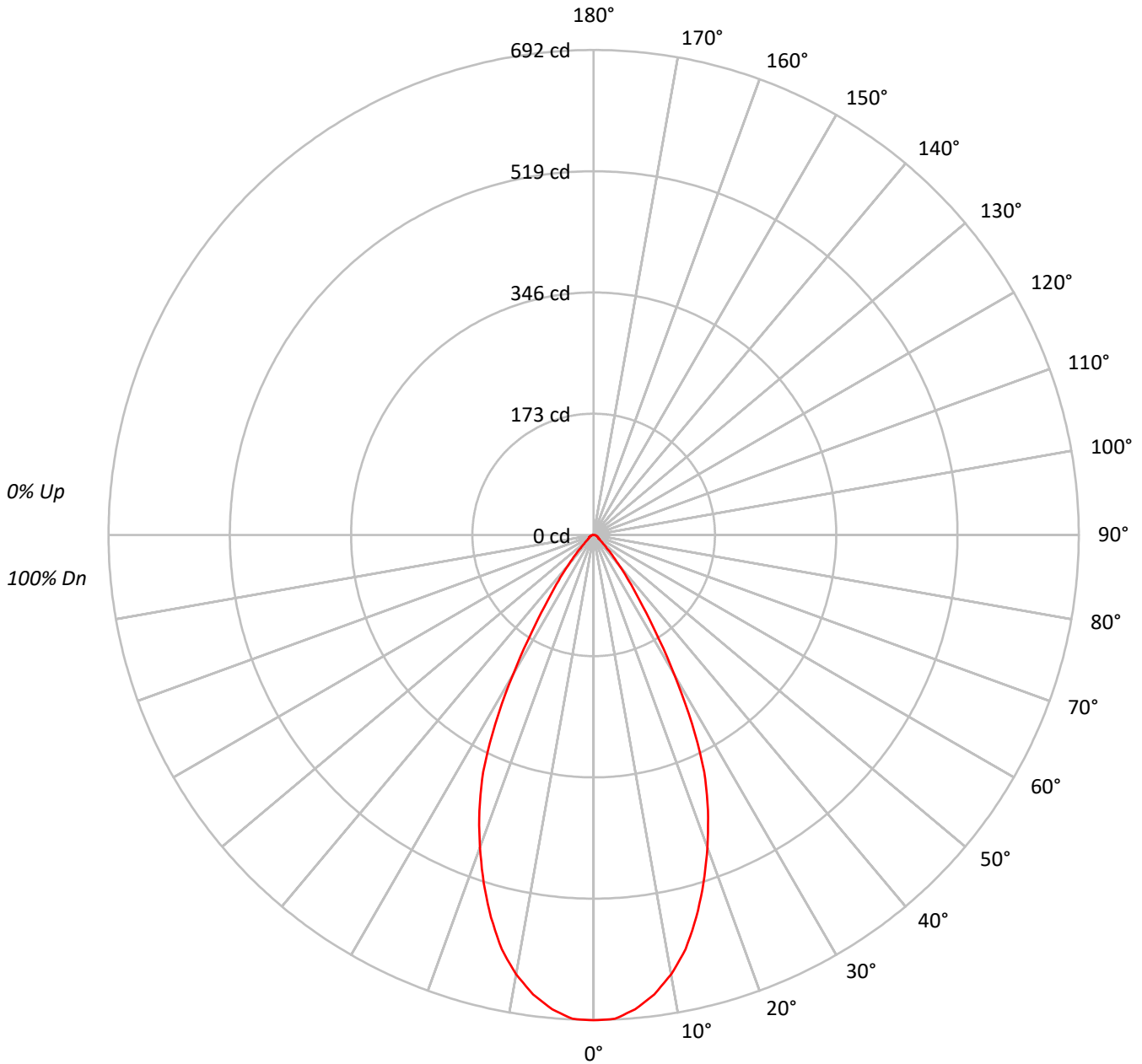
Lumens per Lamp: N/A
Luminaire Lumens: 504.5 lumens
Efficiency: N/A
Efficacy: 84.1 lumens/watt
Spacing Criteria (0/90/45): 0.81 / 0.81 / 0.78
Luminous Opening: Circular (Dia: 0.08' x H: 0')
CIE Type: Direct

Input Watts (W): 6
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									
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	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93																			
2	108	103	99	96	106	101	98	95	98	95	92	95	93	91	92	90	89	87																			
3	103	96	91	87	101	95	90	87	92	88	85	90	87	84	88	85	83	81																			
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76																			
5	93	85	79	75	91	84	79	75	82	77	74	80	76	73	79	75	73	71																			
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67																			
7	85	75	70	66	83	75	69	65	74	69	65	72	68	65	71	67	64	63																			
8	81	71	66	62	79	71	65	62	70	65	61	69	64	61	68	64	61	59																			
9	77	68	62	58	76	67	62	58	66	61	58	65	61	58	65	61	58	56																			
10	74	64	59	55	73	64	59	55	63	58	55	62	58	55	62	58	55	53																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1366678
5°	1346144
10°	1275738
15°	1154795
20°	995915
25°	812013
30°	524135
35°	275377
40°	147363
45°	72566
50°	43905
55°	31311
60°	30787
65°	30354
70°	30005
75°	29738
80°	29549
85°	29437

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 72566 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.5	12.6
10°-20°	156.9	31.1
20°-30°	165.1	32.7
30°-40°	77.0	15.3
40°-50°	22.6	4.5
50°-60°	8.5	1.7
60°-70°	6.1	1.2
70°-80°	3.8	0.7
80°-90°	1.1	0.2
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°	385.4	76.4
0°-40°	462.4	91.7
0°-60°	493.6	97.8
0°-90°	504.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	504.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	692	
5°	680	63
15°	565	157
25°	373	165
35°	114	77
45°	26	23
55°	9	9
65°	6	6
75°	4	4
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	692.5
2.5°	691.2
5°	679.5
7.5°	661.3
10°	636.6
12.5°	605.5
15°	565.2
17.5°	521.0
20°	474.2
22.5°	426.2
25°	372.9
27.5°	304.0
30°	230.0
32.5°	163.7
35°	114.3
37.5°	81.9
40°	57.2
42.5°	39.0
45°	26.0
47.5°	18.2
50°	14.3
52.5°	10.4
55°	9.1
57.5°	7.8
60°	7.8
62.5°	6.5
65°	6.5
67.5°	5.2
70°	5.2
72.5°	3.9
75°	3.9
77.5°	2.6
80°	2.6
82.5°	1.3
85°	1.3
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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(END OF REPORT)