

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: P885957

Luminaire Tested: ML104LSFL9FS1E-TIR1D55WFL-TL1RDSL B-400LM-5000K

Issue Date: 6/19/2024

Test Information

Test Method: LM-79-2019
Report Number: P885957
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-5000K
Description: 1IN ROUND ML FLEX, SELECTABLE CCT, WITH 55D TIR, METALLIC SILVER BAFFLED TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

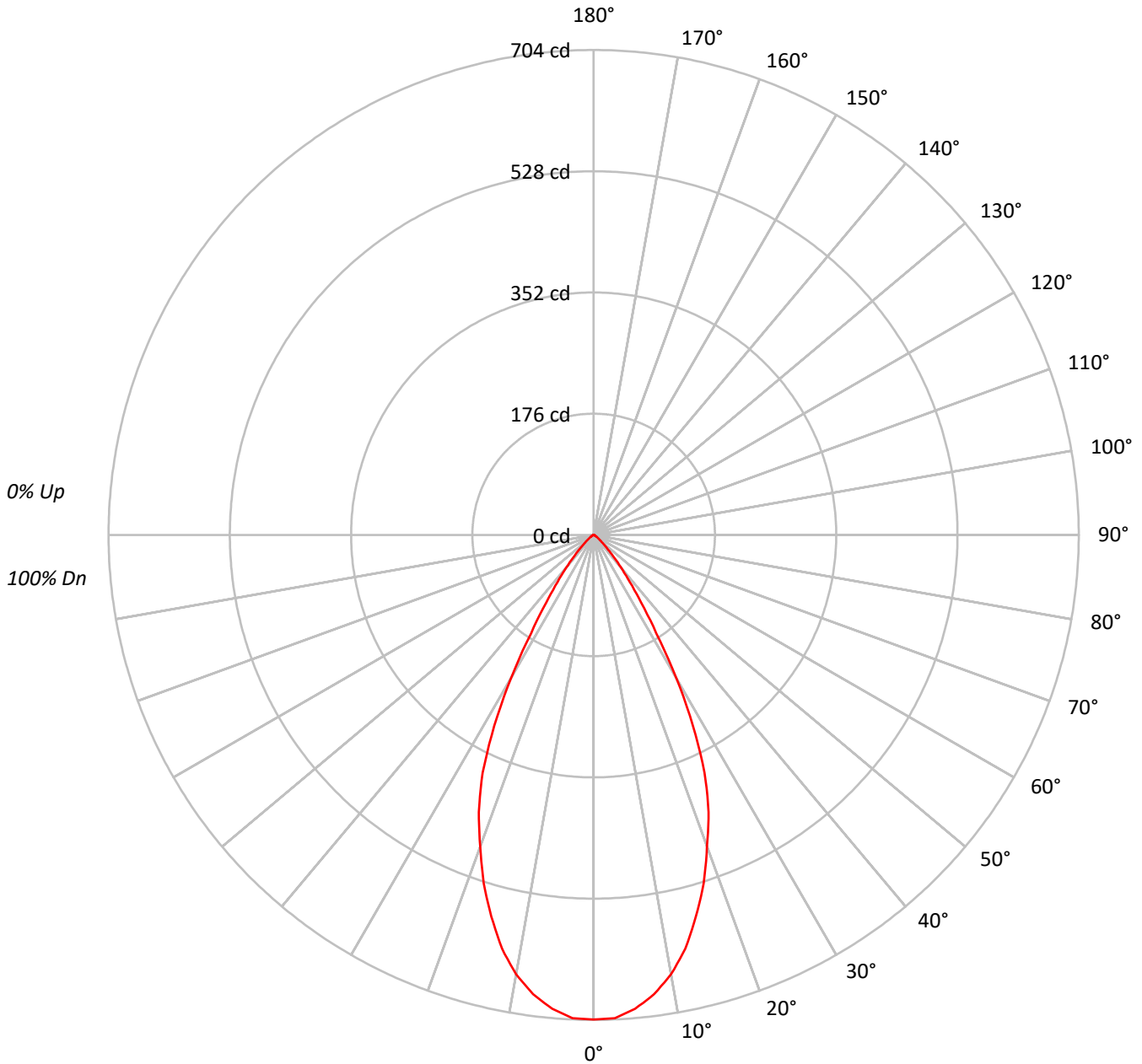
Lumens per Lamp: N/A
Luminaire Lumens: 506.3 lumens
Efficiency: N/A
Efficacy: 84.4 lumens/watt
Spacing Criteria (0/90/45): 0.81 / 0.81 / 0.79
Luminous Opening: Circular (Dia: 0.08' x H: 0')
CIE Type: Direct

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	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°	1388387
5°	1367936
10°	1297582
15°	1171548
20°	1010406
25°	829651
30°	545329
35°	288146
40°	157410
45°	76195
50°	39914
55°	22365
60°	15394
65°	12141
70°	7501
75°	9913
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 76195 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.5	12.7
10°-20°	159.4	31.5
20°-30°	169.0	33.4
30°-40°	80.3	15.9
40°-50°	23.5	4.6
50°-60°	6.5	1.3
60°-70°	2.2	0.4
70°-80°	0.9	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°	392.9	77.6
0°-40°	473.2	93.5
0°-60°	503.2	99.4
0°-90°	506.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	506.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	704	
5°	690	65
15°	573	159
25°	381	169
35°	120	80
45°	27	24
55°	6	6
65°	3	2
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	703.5
2.5°	702.2
5°	690.5
7.5°	672.3
10°	647.5
12.5°	615.0
15°	573.4
17.5°	530.5
20°	481.1
22.5°	435.6
25°	381.0
27.5°	312.1
30°	239.3
32.5°	169.0
35°	119.6
37.5°	85.8
40°	61.1
42.5°	41.6
45°	27.3
47.5°	18.2
50°	13.0
52.5°	9.1
55°	6.5
57.5°	5.2
60°	3.9
62.5°	2.6
65°	2.6
67.5°	1.3
70°	1.3
72.5°	1.3
75°	1.3
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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