

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: P885955

Luminaire Tested: ML104LSFL9FS1E-TIR1D55WFL-TL1RDSL B-400LM-3500K

Issue Date: 6/19/2024

Test Information

Test Method: LM-79-2019
Report Number: P885955
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-3500K
Description: 1IN ROUND ML FLEX, SELECTABLE CCT, WITH 55D TIR, METALLIC SILVER BAFFLED TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

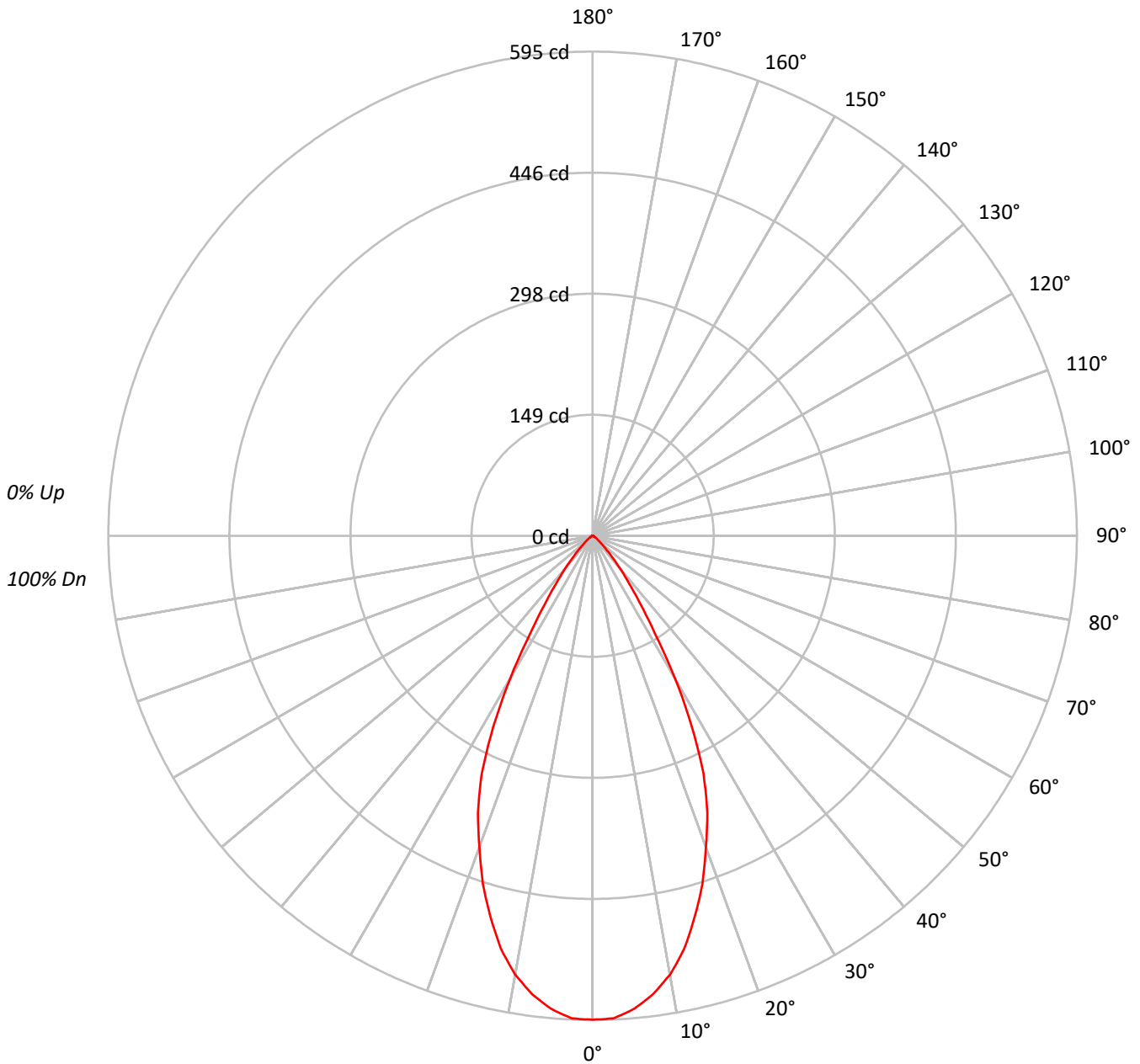
Lumens per Lamp: N/A
Luminaire Lumens: 428.1 lumens
Efficiency: N/A
Efficacy: 71.3 lumens/watt
Spacing Criteria (0/90/45): 0.81 / 0.81 / 0.79
Luminous Opening: Circular (Dia: 0.08' x H: 0')
CIE Type: Direct

Input Watts (W): 6
Input Voltage (V): NR
Input Current (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	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°	1173665
5°	1156357
10°	1097183
15°	990524
20°	854151
25°	701393
30°	461011
35°	243575
40°	133193
45°	64472
50°	33773
55°	18924
60°	13025
65°	10274
70°	6347
75°	8388
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 64472 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.6	12.7
10°-20°	134.8	31.5
20°-30°	142.9	33.4
30°-40°	67.9	15.9
40°-50°	19.9	4.7
50°-60°	5.5	1.3
60°-70°	1.9	0.4
70°-80°	0.7	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°	332.2	77.6
0°-40°	400.0	93.5
0°-60°	425.5	99.4
0°-90°	428.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	428.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	595	
5°	584	55
15°	485	135
25°	322	143
35°	101	68
45°	23	20
55°	6	5
65°	2	2
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	594.7
2.5°	593.6
5°	583.7
7.5°	568.3
10°	547.5
12.5°	520.0
15°	484.8
17.5°	448.5
20°	406.7
22.5°	368.3
25°	322.1
27.5°	263.8
30°	202.3
32.5°	142.9
35°	101.1
37.5°	72.6
40°	51.7
42.5°	35.2
45°	23.1
47.5°	15.4
50°	11.0
52.5°	7.7
55°	5.5
57.5°	4.4
60°	3.3
62.5°	2.2
65°	2.2
67.5°	1.1
70°	1.1
72.5°	1.1
75°	1.1
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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