

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: P886934

Luminaire Tested: ML412LSFL95FS1E-TIR4D55WFL-TL4RDSL-1020LM-5000K

Issue Date: 7/9/2024

Test Information

Test Method: LM-79-2019
Report Number: P886934
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-43)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 7/9/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML412LSFL95FS1E-TIR4D55WFL-TL4RDSL-1020LM-5000K
Description: 4IN ROUND ML FLEX, SELECTABLE CCT, WITH 55D TIR, METALLIC SILVER TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 5000K CCT
Ballast/Driver: -

Summary

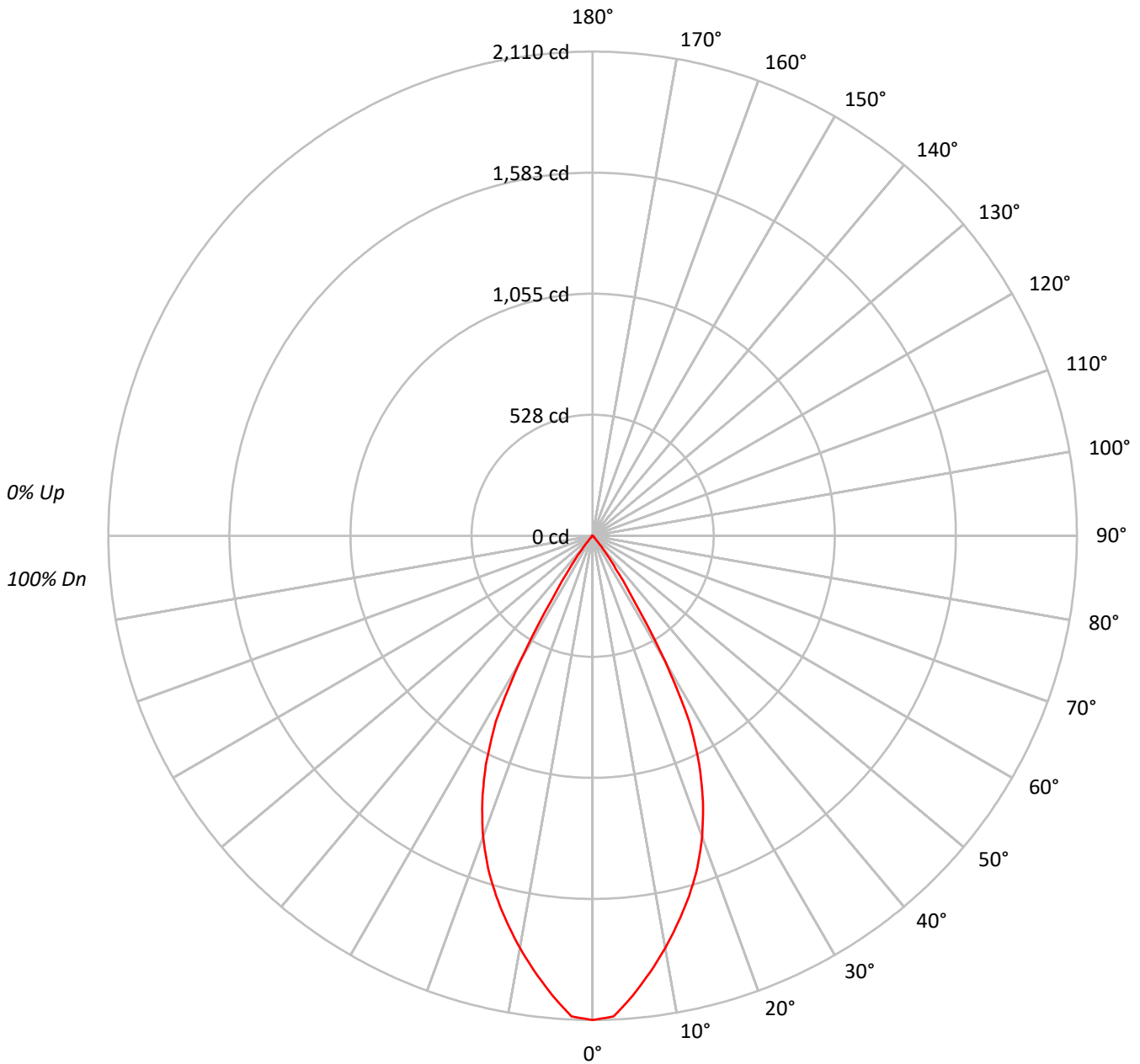
Lumens per Lamp: N/A
Luminaire Lumens: 1279.4 lumens
Efficiency: N/A
Efficacy: 72.7 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 0.79 / 0.77
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 17.6
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	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	112	109	107	112	109	107	106	105	104	102	102	101	99	98	97	96	95																																				
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	90																																				
3	105	99	94	91	103	98	93	90	95	92	89	93	90	87	90	88	86	85																																				
4	100	93	89	85	98	92	88	84	90	86	83	88	85	82	87	84	81	80																																				
5	96	88	83	80	94	88	83	79	86	82	79	84	81	78	83	80	77	76																																				
6	92	84	79	75	90	83	78	75	82	77	74	80	77	74	79	76	73	72																																				
7	88	80	74	71	87	79	74	71	78	73	70	77	73	70	76	72	69	68																																				
8	84	76	71	67	83	75	70	67	74	70	67	73	69	66	72	69	66	65																																				
9	81	72	67	64	80	72	67	64	71	66	63	70	66	63	69	66	63	62																																				
10	78	69	64	61	77	69	64	60	68	63	60	67	63	60	67	63	60	59																																				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	260284
5°	248983
10°	228453
15°	207431
20°	183189
25°	149734
30°	89715
35°	26487
40°	5732
45°	1430
50°	1055
55°	774
60°	666
65°	525
70°	325
75°	429
80°	639
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1430 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.0	14.5
10°-20°	452.8	35.4
20°-30°	485.6	38.0
30°-40°	139.5	10.9
40°-50°	8.9	0.7
50°-60°	3.5	0.3
60°-70°	2.0	0.2
70°-80°	1.0	0.1
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°	1124.4	87.9
0°-40°	1263.9	98.8
0°-60°	1276.3	99.8
0°-90°	1279.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1279.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2110	
5°	2011	186
15°	1624	453
25°	1100	486
35°	176	139
45°	8	9
55°	4	4
65°	2	2
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2110.2
2.5°	2096.5
5°	2010.9
7.5°	1917.9
10°	1824.0
12.5°	1724.6
15°	1624.4
17.5°	1516.8
20°	1395.6
22.5°	1257.0
25°	1100.2
27.5°	912.5
30°	629.9
32.5°	335.4
35°	175.9
37.5°	87.5
40°	35.6
42.5°	11.9
45°	8.2
47.5°	6.4
50°	5.5
52.5°	4.6
55°	3.6
57.5°	3.6
60°	2.7
62.5°	2.7
65°	1.8
67.5°	1.8
70°	0.9
72.5°	0.9
75°	0.9
77.5°	0.9
80°	0.9
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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(END OF REPORT)