

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: P886623

Luminaire Tested: ML310LSFL95FS1E-TIR4D55WFL-TL3RDSL-850LM-3000K

Issue Date: 7/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P886623
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-8)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 7/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML310LSFL95FS1E-TIR4D55WFL-TL3RDSL-850LM-3000K
Description: 3IN ROUND ML FLEX, SELECTABLE CCT, WITH 55D TIR, METALLIC SILVER TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1078.5 lumens
Efficiency: N/A
Efficacy: 79.3 lumens/watt
Spacing Criteria (0/90/45): 0.8 / 0.8 / 0.76
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

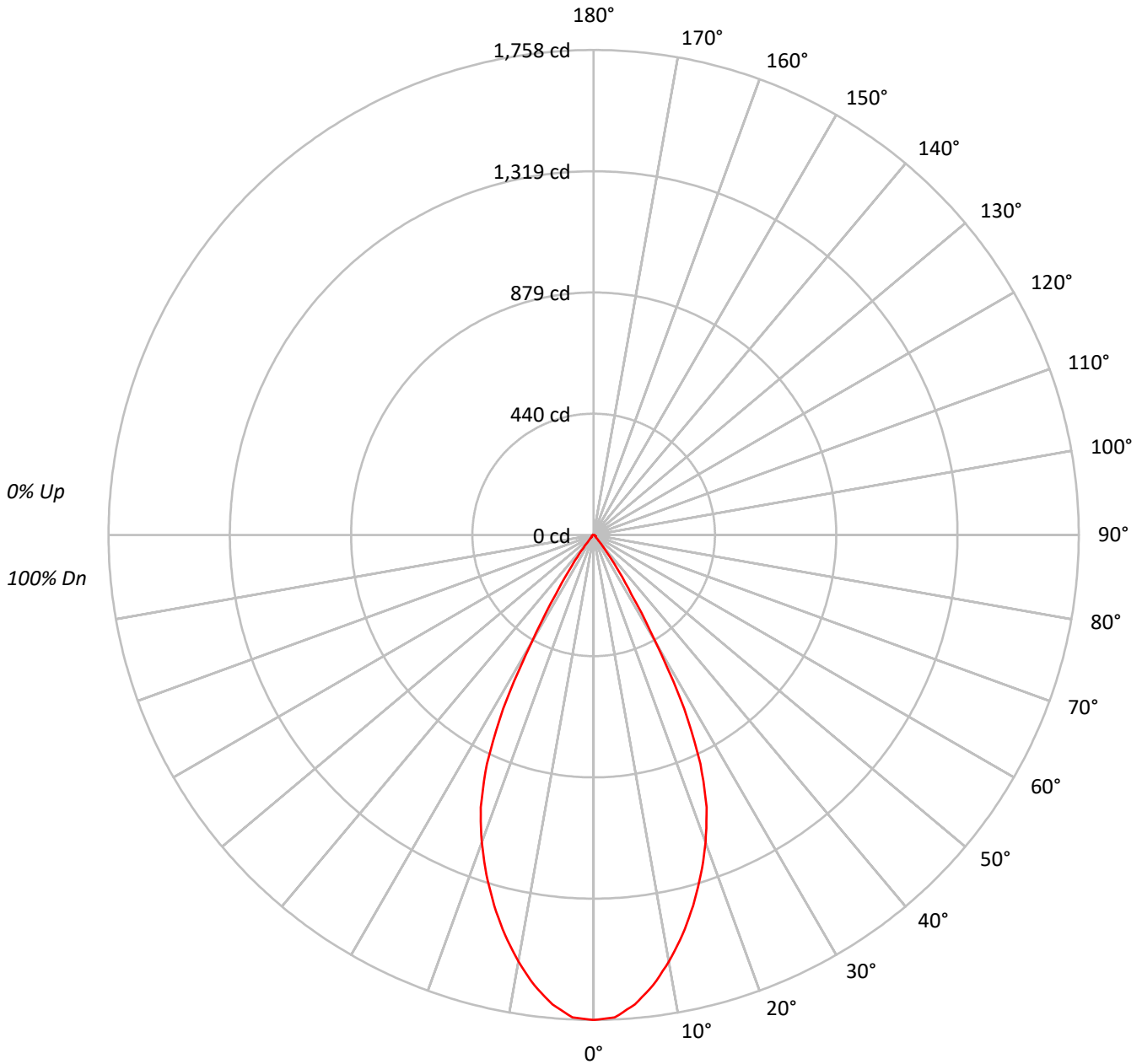
Input Watts (W): 13.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	100	100	100
1	114	111	109	107	112	109	107	105	105	104	102	102	100	99	98	97	96	94	94	94	94
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89	89	89	89
3	104	99	94	90	102	97	93	90	95	91	88	92	89	87	90	88	86	84	84	84	84
4	100	93	88	84	98	92	87	84	90	86	83	88	85	82	86	83	81	80	80	80	80
5	96	88	83	79	94	87	82	79	85	81	78	84	80	77	82	79	77	75	75	75	75
6	92	84	78	74	90	83	78	74	81	77	74	80	76	73	79	75	73	71	71	71	71
7	88	79	74	70	86	79	74	70	78	73	70	76	72	69	75	72	69	68	68	68	68
8	84	76	70	67	83	75	70	67	74	70	66	73	69	66	72	68	66	65	65	65	65
9	81	72	67	63	80	72	67	63	71	66	63	70	66	63	69	65	63	61	61	61	61
10	78	69	64	60	77	68	64	60	68	63	60	67	63	60	66	62	60	59	59	59	59

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	385561
5°	376050
10°	349604
15°	315870
20°	276594
25°	221456
30°	113157
35°	37530
40°	9962
45°	3504
50°	3207
55°	3250
60°	3289
65°	2906
70°	3013
75°	3219
80°	3536
85°	2264

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 80°
 Luminance: 3536 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.7	14.7
10°-20°	387.5	35.9
20°-30°	396.3	36.8
30°-40°	106.4	9.9
40°-50°	11.2	1.0
50°-60°	7.4	0.7
60°-70°	5.9	0.5
70°-80°	4.0	0.4
80°-90°	1.1	0.1
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°	942.5	87.4
0°-40°	1048.9	97.3
0°-60°	1067.4	99.0
0°-90°	1078.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1078.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1758	
5°	1708	159
15°	1391	387
25°	915	396
35°	140	106
45°	11	11
55°	8	7
65°	6	6
75°	4	4
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1758.3
2.5°	1750.7
5°	1708.4
7.5°	1647.2
10°	1570.1
12.5°	1485.4
15°	1391.4
17.5°	1291.6
20°	1185.3
22.5°	1068.7
25°	915.3
27.5°	710.3
30°	446.9
32.5°	254.9
35°	140.2
37.5°	72.4
40°	34.8
42.5°	15.1
45°	11.3
47.5°	10.3
50°	9.4
52.5°	8.5
55°	8.5
57.5°	7.5
60°	7.5
62.5°	6.6
65°	5.6
67.5°	5.6
70°	4.7
72.5°	4.7
75°	3.8
77.5°	2.8
80°	2.8
82.5°	1.9
85°	0.9
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)