

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: P886559

Luminaire Tested: ML310LSFL95FS1E-TIR4D25NFL-TL3RDMW-850LM-3500K

Issue Date: 7/18/2024

Test Information

Test Method: LM-79-2019
Report Number: P886559
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 7/18/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML310LSFL95FS1E-TIR4D25NFL-TL3RDMW-850LM-3500K
Description: 3IN ROUND ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE WHITE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1017.4 lumens
Efficiency: N/A
Efficacy: 74.8 lumens/watt
Spacing Criteria (0/90/45): 0.47 / 0.47 / 0.5
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

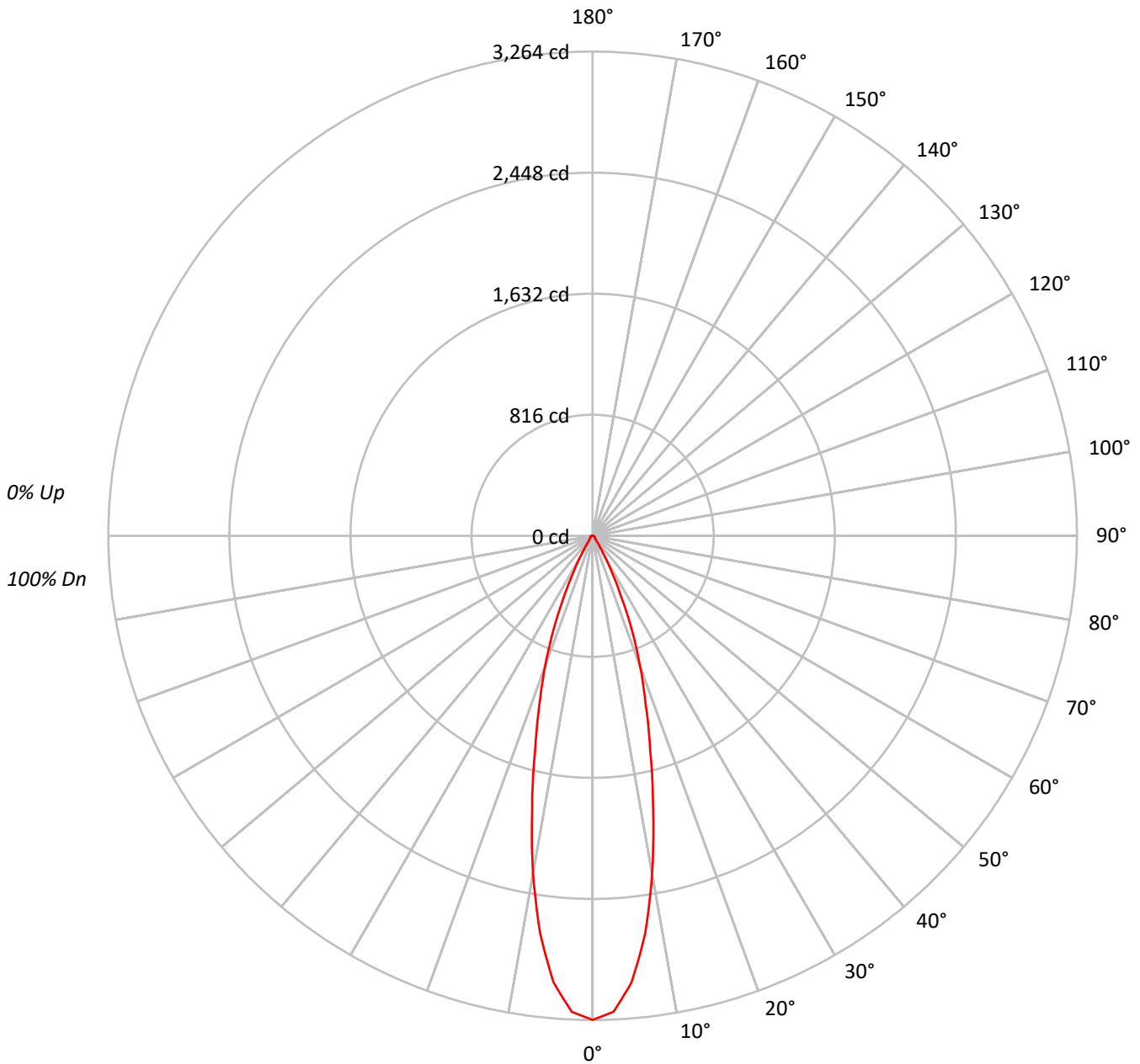
Input Watts (W): 13.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	114	112	109	107	112	109	107	106	105	104	102	102	101	99	98	97	97	95																			
2	110	105	102	99	107	104	100	98	100	98	96	97	95	93	95	93	92	90																			
3	105	100	95	92	103	98	95	91	96	93	90	94	91	89	91	89	87	86																			
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	83	82																			
5	98	91	86	82	96	90	85	82	88	84	81	87	83	81	85	82	80	79																			
6	94	87	82	78	93	86	82	78	85	81	78	83	80	77	82	79	77	76																			
7	91	83	79	75	90	83	78	75	82	78	75	81	77	74	80	76	74	73																			
8	88	80	75	72	87	80	75	72	79	75	72	78	74	71	77	74	71	70																			
9	85	77	73	69	84	77	72	69	76	72	69	75	72	69	75	71	69	68																			
10	82	75	70	67	82	74	70	67	74	70	67	73	69	67	72	69	66	65																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	715644
5°	664845
10°	514687
15°	340184
20°	218069
25°	112240
30°	45298
35°	16650
40°	8072
45°	7226
50°	6959
55°	7417
60°	7675
65°	8094
70°	8078
75°	8218
80°	7324
85°	7296

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 82.5°
 Luminance: 8232 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.4	26.1
10°-20°	419.1	41.2
20°-30°	222.3	21.8
30°-40°	46.8	4.6
40°-50°	18.4	1.8
50°-60°	17.3	1.7
60°-70°	15.0	1.5
70°-80°	9.9	1.0
80°-90°	3.2	0.3
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°	906.8	89.1
0°-40°	953.6	93.7
0°-60°	989.3	97.2
0°-90°	1017.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1017.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3264	
5°	3020	265
15°	1498	419
25°	464	222
35°	62	47
45°	23	18
55°	19	17
65°	16	15
75°	10	10
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3263.6
2.5°	3212.0
5°	3020.4
7.5°	2707.3
10°	2311.5
12.5°	1885.6
15°	1498.5
17.5°	1189.3
20°	934.5
22.5°	694.3
25°	463.9
27.5°	296.6
30°	178.9
32.5°	107.0
35°	62.2
37.5°	37.0
40°	28.2
42.5°	25.3
45°	23.3
47.5°	22.4
50°	20.4
52.5°	20.4
55°	19.4
57.5°	18.5
60°	17.5
62.5°	16.5
65°	15.6
67.5°	13.6
70°	12.6
72.5°	10.7
75°	9.7
77.5°	7.8
80°	5.8
82.5°	4.9
85°	2.9
87.5°	1.0
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)