

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: P886558

Luminaire Tested: ML310LSFL95FS1E-TIR4D25NFL-TL3RDMW-850LM-3000K

Issue Date: 7/18/2024

Test Information

Test Method: LM-79-2019
Report Number: P886558
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-3000K
Description: 3IN ROUND ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE WHITE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 3000K CCT
Ballast/Driver: -

Summary

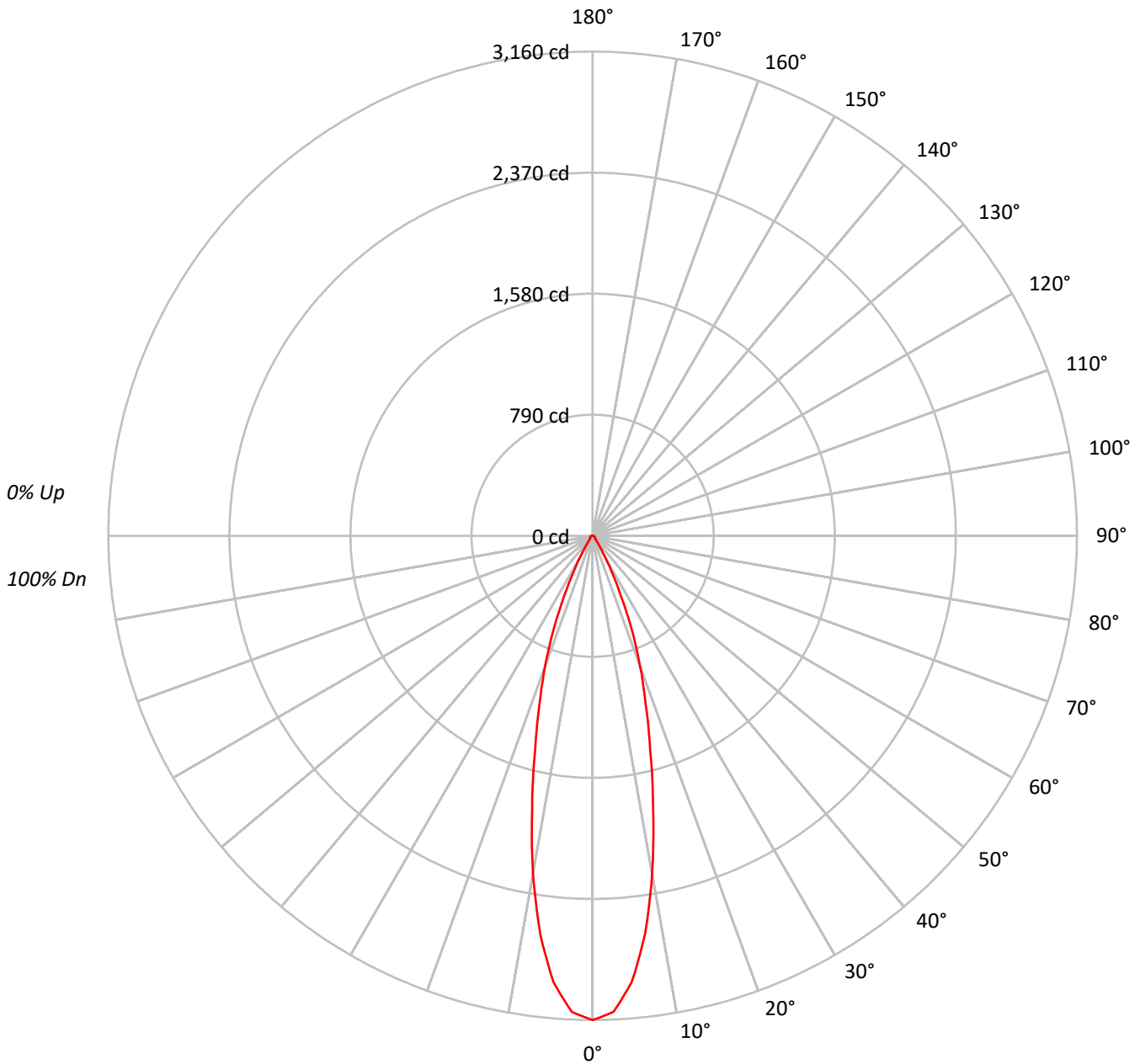
Lumens per Lamp: N/A
Luminaire Lumens: 985.3 lumens
Efficiency: N/A
Efficacy: 72.5 lumens/watt
Spacing Criteria (0/90/45): 0.47 / 0.47 / 0.5
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 13.6
Input Voltage (V): NR
Input Current (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	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°	693037
5°	643868
10°	498454
15°	329446
20°	211185
25°	108684
30°	43880
35°	16142
40°	7815
45°	7008
50°	6755
55°	7187
60°	7456
65°	7835
70°	7822
75°	7964
80°	7198
85°	7045

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 75°
 Luminance: 7964 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.0	26.1
10°-20°	405.9	41.2
20°-30°	215.3	21.8
30°-40°	45.4	4.6
40°-50°	17.8	1.8
50°-60°	16.8	1.7
60°-70°	14.6	1.5
70°-80°	9.6	1.0
80°-90°	3.1	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°	878.2	89.1
0°-40°	923.6	93.7
0°-60°	958.1	97.2
0°-90°	985.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	985.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3160	
5°	2925	257
15°	1451	406
25°	449	215
35°	60	45
45°	23	18
55°	19	17
65°	15	15
75°	9	10
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3160.5
2.5°	3110.6
5°	2925.1
7.5°	2621.9
10°	2238.6
12.5°	1826.1
15°	1451.2
17.5°	1151.8
20°	905.0
22.5°	672.4
25°	449.2
27.5°	287.2
30°	173.3
32.5°	103.6
35°	60.3
37.5°	35.8
40°	27.3
42.5°	24.5
45°	22.6
47.5°	21.7
50°	19.8
52.5°	19.8
55°	18.8
57.5°	17.9
60°	17.0
62.5°	16.0
65°	15.1
67.5°	13.2
70°	12.2
72.5°	10.4
75°	9.4
77.5°	7.5
80°	5.7
82.5°	4.7
85°	2.8
87.5°	0.9
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)