

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: P886563

Luminaire Tested: ML310LSFL95FS1E-TIR4D25NFL-TL3RDSL-850LM-3000K

Issue Date: 7/18/2024

Test Information

Test Method: LM-79-2019
Report Number: P886563
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 7/18/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML310LSFL95FS1E-TIR4D25NFL-TL3RDSL-850LM-3000K
Description: 3IN ROUND ML FLEX, SELECTABLE CCT, WITH 25D TIR, METALLIC SILVER TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 3000K CCT
Ballast/Driver: -

Summary

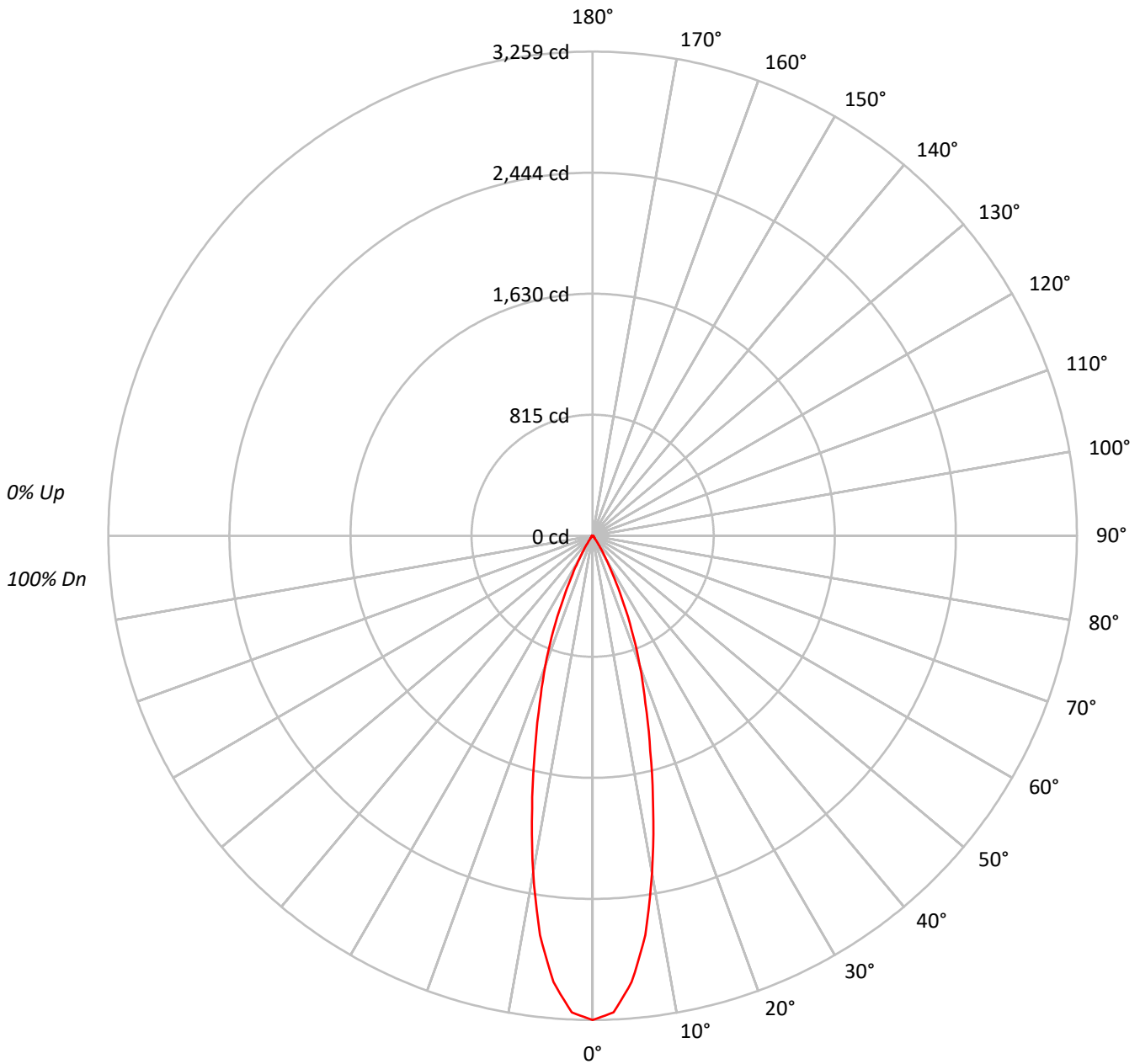
Lumens per Lamp: N/A
Luminaire Lumens: 979.6 lumens
Efficiency: N/A
Efficacy: 72.0 lumens/watt
Spacing Criteria (0/90/45): 0.47 / 0.47 / 0.5
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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									
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				100															
1	114	112	110	108	112	110	108	106	106	105	103	102	101	100	99	98	97	96				96															
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91				91															
3	106	101	97	94	104	100	96	93	97	94	92	95	92	90	93	91	89	87				87															
4	102	96	92	89	101	95	91	88	93	90	87	91	88	86	90	87	85	84				84															
5	99	92	88	84	97	91	87	84	90	86	83	88	85	83	87	84	82	81				81															
6	95	89	84	81	94	88	83	80	86	83	80	85	82	79	84	81	79	78				78															
7	92	85	80	77	91	85	80	77	83	79	77	82	79	76	81	78	76	75				75															
8	89	82	77	74	88	82	77	74	81	77	74	80	76	74	79	76	73	72				72															
9	87	79	75	72	86	79	74	71	78	74	71	77	74	71	76	73	71	70				70															
10	84	77	72	69	83	76	72	69	75	72	69	75	71	69	74	71	69	68				68															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	714723
5°	663569
10°	512772
15°	340252
20°	216622
25°	111394
30°	44817
35°	15125
40°	5925
45°	4373
50°	3855
55°	3594
60°	3728
65°	3891
70°	3590
75°	3982
80°	3536
85°	2264

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4373 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.1	27.1
10°-20°	417.8	42.7
20°-30°	220.4	22.5
30°-40°	43.4	4.4
40°-50°	11.4	1.2
50°-60°	8.7	0.9
60°-70°	7.1	0.7
70°-80°	4.6	0.5
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°	903.3	92.2
0°-40°	946.7	96.6
0°-60°	966.8	98.7
0°-90°	979.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	979.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3259	
5°	3015	265
15°	1499	418
25°	460	220
35°	56	43
45°	14	11
55°	9	9
65°	8	7
75°	5	5
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3259.4
2.5°	3211.4
5°	3014.6
7.5°	2710.5
10°	2302.9
12.5°	1882.0
15°	1498.8
17.5°	1181.6
20°	928.3
22.5°	687.3
25°	460.4
27.5°	293.7
30°	177.0
32.5°	102.6
35°	56.5
37.5°	30.1
40°	20.7
42.5°	16.9
45°	14.1
47.5°	12.2
50°	11.3
52.5°	10.4
55°	9.4
57.5°	9.4
60°	8.5
62.5°	7.5
65°	7.5
67.5°	6.6
70°	5.6
72.5°	4.7
75°	4.7
77.5°	3.8
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)