

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: P886800

Luminaire Tested: ML310LSFLD2W1E-TIR4D40FL-TL3RDSL-600LM-2700K

Issue Date: 7/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P886800
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-5)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 7/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML310LSFLD2W1E-TIR4D40FL-TL3RDSL-600LM-2700K
Description: 3IN ROUND ML FLEX, SELECTABLE CCT, WITH 40D TIR, METALLIC SILVER TRIM
Light Source: (1) D2W LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

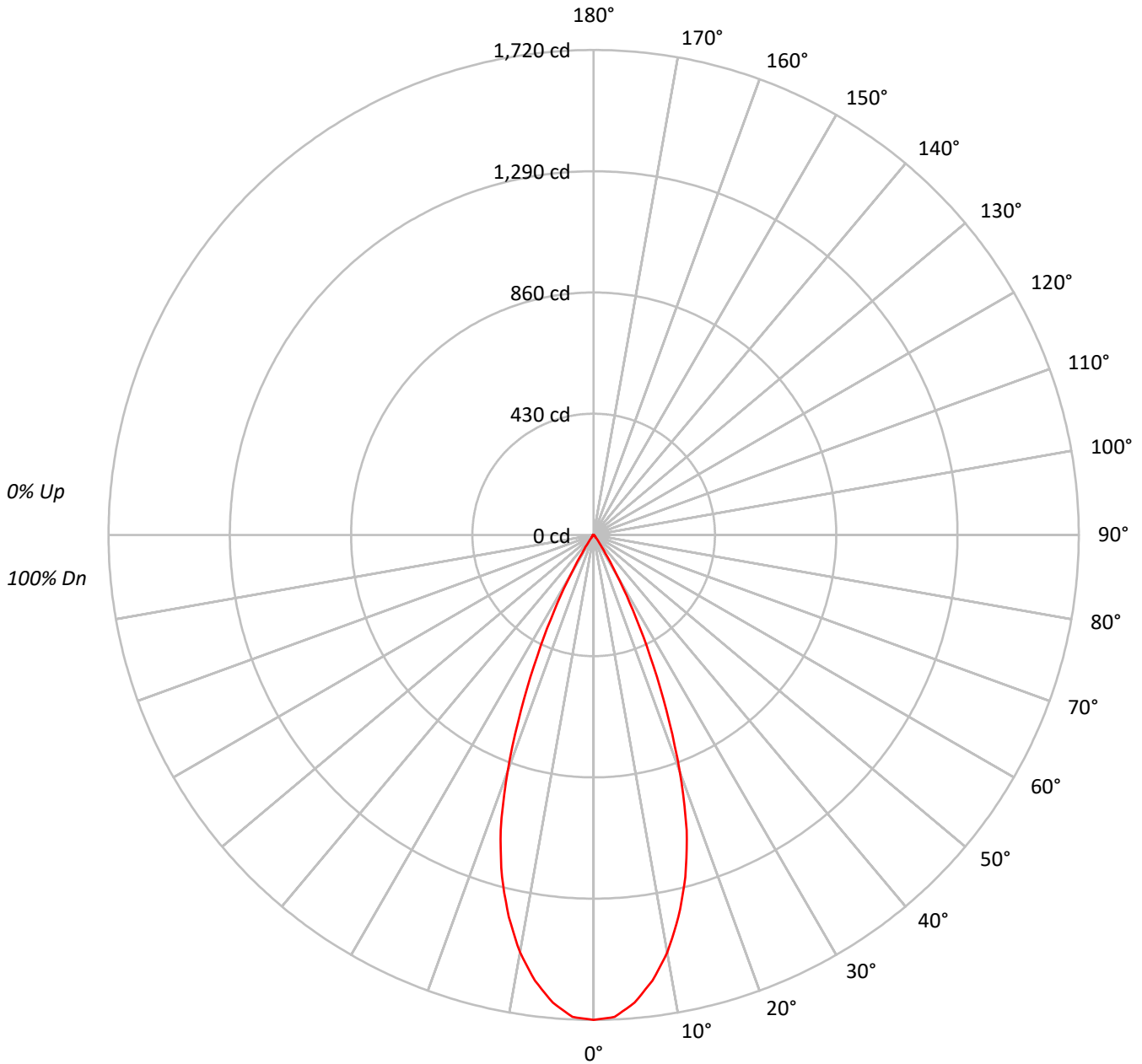
Lumens per Lamp: N/A
Luminaire Lumens: 760.8 lumens
Efficiency: N/A
Efficacy: 80.1 lumens/watt
Spacing Criteria (0/90/45): 0.67 / 0.67 / 0.63
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 9.5
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
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95			95
2	110	106	103	100	108	104	101	99	101	99	96	98	96	94	95	94	92	91			91
3	106	100	96	93	104	99	95	92	97	94	91	94	92	90	92	90	88	87			87
4	102	96	91	88	100	95	90	87	93	89	86	91	88	85	89	86	84	83			83
5	98	91	87	83	97	90	86	83	89	85	82	87	84	81	86	83	81	79			79
6	94	87	82	79	93	87	82	79	85	81	78	84	80	78	83	80	77	76			76
7	91	84	79	75	90	83	78	75	82	78	75	81	77	75	80	77	74	73			73
8	88	80	75	72	87	80	75	72	79	75	72	78	74	71	77	74	71	70			70
9	85	77	72	69	84	77	72	69	76	72	69	75	71	69	74	71	68	67			67
10	82	74	70	67	81	74	69	66	73	69	66	72	69	66	72	68	66	65			65

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	377207
5°	366453
10°	334797
15°	285155
20°	207895
25°	113789
30°	40816
35°	9262
40°	3779
45°	1768
50°	1501
55°	1453
60°	1667
65°	1608
70°	1603
75°	1610
80°	1642
85°	1510

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 82.5°
 Luminance: 2184 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.8	20.2
10°-20°	341.4	44.9
20°-30°	218.1	28.7
30°-40°	32.7	4.3
40°-50°	5.3	0.7
50°-60°	3.6	0.5
60°-70°	3.1	0.4
70°-80°	2.2	0.3
80°-90°	0.7	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°	713.2	93.7
0°-40°	746.0	98.1
0°-60°	754.8	99.2
0°-90°	760.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	760.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1720	
5°	1665	154
15°	1256	341
25°	470	218
35°	35	33
45°	6	5
55°	4	4
65°	3	3
75°	2	2
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1720.2
2.5°	1711.4
5°	1664.8
7.5°	1594.3
10°	1503.6
12.5°	1388.4
15°	1256.1
17.5°	1097.5
20°	890.9
22.5°	673.7
25°	470.3
27.5°	301.0
30°	161.2
32.5°	76.2
35°	34.6
37.5°	20.8
40°	13.2
42.5°	8.2
45°	5.7
47.5°	5.0
50°	4.4
52.5°	4.4
55°	3.8
57.5°	3.8
60°	3.8
62.5°	3.1
65°	3.1
67.5°	3.1
70°	2.5
72.5°	2.5
75°	1.9
77.5°	1.9
80°	1.3
82.5°	1.3
85°	0.6
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)