

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: P886798

Luminaire Tested: ML310LSFLD2W1E-TIR4D40FL-TL3RDMW-600LM-2700K

Issue Date: 7/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P886798
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-4)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 7/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML310LSFLD2W1E-TIR4D40FL-TL3RDMW-600LM-2700K
Description: 3IN ROUND ML FLEX, SELECTABLE CCT, WITH 40D TIR, MATTE WHITE TRIM
Light Source: (1) D2W LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

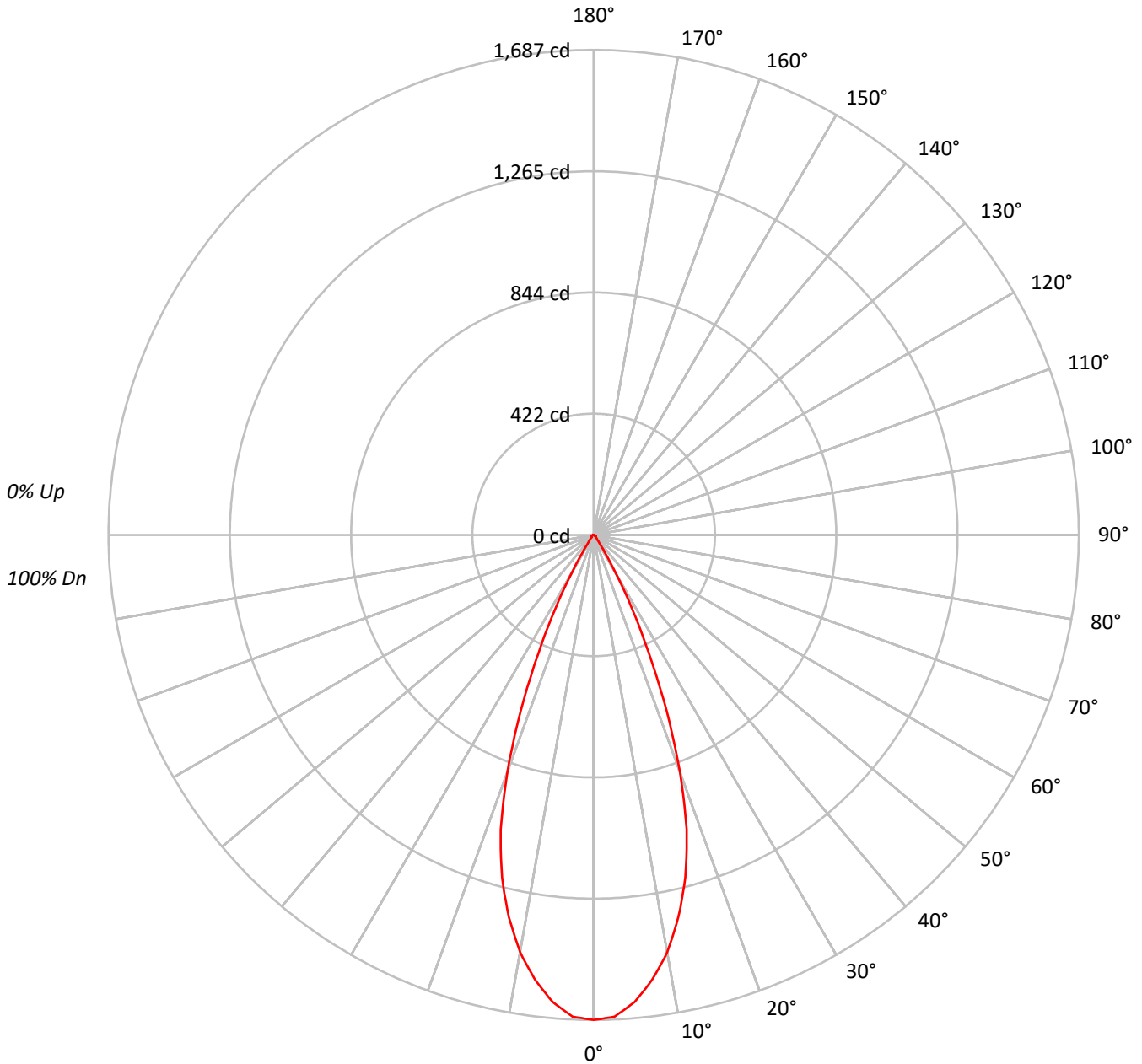
Lumens per Lamp: N/A
Luminaire Lumens: 755.1 lumens
Efficiency: N/A
Efficacy: 79.5 lumens/watt
Spacing Criteria (0/90/45): 0.67 / 0.67 / 0.62
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	100	100
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95	95	95	95
2	110	105	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90	90	90	90
3	105	100	96	92	103	99	95	92	96	93	90	94	91	89	92	89	87	86	86	86	86
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	83	82	82	82	82
5	98	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	79	79	79	79
6	94	87	82	78	93	86	81	78	84	80	77	83	80	77	82	79	76	75	75	75	75
7	91	83	78	75	89	82	78	74	81	77	74	80	76	74	79	76	73	72	72	72	72
8	87	80	75	71	86	79	74	71	78	74	71	77	73	71	76	73	70	69	69	69	69
9	84	76	72	68	83	76	71	68	75	71	68	74	71	68	74	70	68	67	67	67	67
10	81	74	69	66	81	73	69	66	72	68	65	72	68	65	71	68	65	64	64	64	64

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	369948
5°	359013
10°	328117
15°	279775
20°	204418
25°	109845
30°	38259
35°	9102
40°	4322
45°	2915
50°	2797
55°	3135
60°	3026
65°	3269
70°	3206
75°	3219
80°	3157
85°	3271

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 62.5°
 Luminance: 3277 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.6	19.9
10°-20°	334.7	44.3
20°-30°	212.0	28.1
30°-40°	31.4	4.2
40°-50°	7.8	1.0
50°-60°	7.1	0.9
60°-70°	6.2	0.8
70°-80°	4.0	0.5
80°-90°	1.4	0.2
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°	697.4	92.4
0°-40°	728.7	96.5
0°-60°	743.6	98.5
0°-90°	755.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	755.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1687	
5°	1631	151
15°	1232	335
25°	454	212
35°	34	31
45°	9	8
55°	8	7
65°	6	6
75°	4	4
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1687.1
2.5°	1677.0
5°	1631.0
7.5°	1560.5
10°	1473.6
12.5°	1361.5
15°	1232.4
17.5°	1074.3
20°	876.0
22.5°	662.5
25°	454.0
27.5°	288.4
30°	151.1
32.5°	69.3
35°	34.0
37.5°	22.7
40°	15.1
42.5°	10.7
45°	9.4
47.5°	8.8
50°	8.2
52.5°	8.2
55°	8.2
57.5°	7.6
60°	6.9
62.5°	6.9
65°	6.3
67.5°	5.7
70°	5.0
72.5°	4.4
75°	3.8
77.5°	3.1
80°	2.5
82.5°	1.9
85°	1.3
87.5°	0.6
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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