

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: P886788

Luminaire Tested: ML310LSFLD2W1E-TIR4D25NFL-TL3RDSL-600LM-2700K

Issue Date: 7/18/2024

Test Information

Test Method: LM-79-2019
Report Number: P886788
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: ML310LSFLD2W1E-TIR4D25NFL-TL3RDSL-600LM-2700K
Description: 3IN ROUND ML FLEX, SELECTABLE CCT, WITH 25D TIR, METALLIC SILVER TRIM
Light Source: (1) D2W LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 655.7 lumens
Efficiency: N/A
Efficacy: 69.0 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

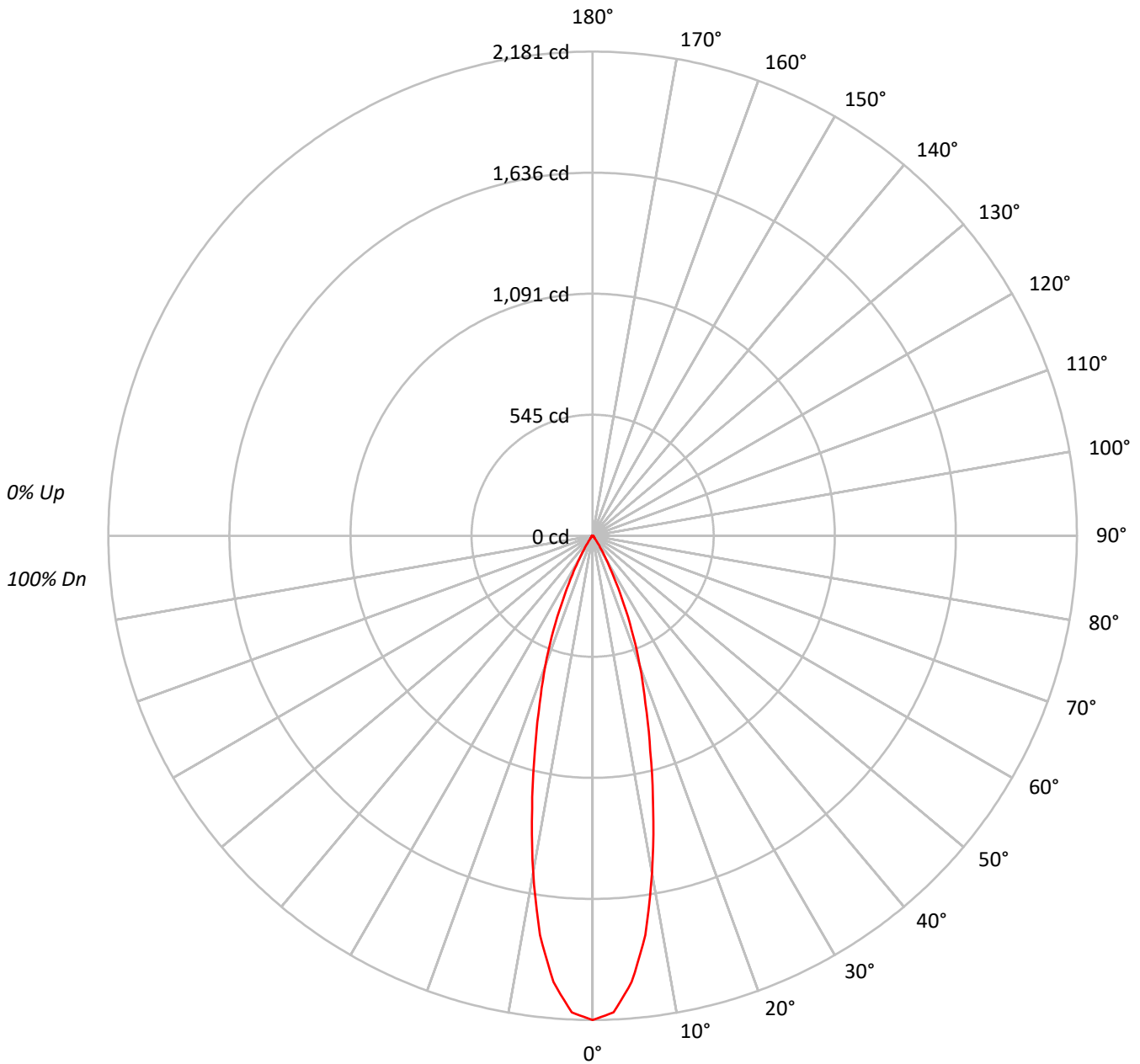
Input Watts (W): 9.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	110	108	112	110	108	106	106	105	103	102	101	100	99	98	97	96																			
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91																			
3	106	101	97	94	104	100	96	93	97	94	92	95	92	90	93	91	89	87																			
4	102	96	92	89	101	95	91	88	93	90	87	91	88	86	90	87	85	84																			
5	99	92	88	84	97	91	87	84	90	86	83	88	85	83	87	84	82	81																			
6	95	89	84	81	94	88	83	80	86	83	80	85	82	79	84	81	79	78																			
7	92	85	80	77	91	85	80	77	83	79	77	82	79	76	81	78	76	75																			
8	89	82	77	74	88	82	77	74	81	77	74	80	76	74	79	76	73	72																			
9	87	79	75	72	86	79	74	71	78	74	71	77	74	71	76	73	71	70																			
10	84	77	72	69	83	76	72	69	75	72	69	75	71	69	74	71	69	68																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	478317
5°	444067
10°	343147
15°	227720
20°	144959
25°	74545
30°	30005
35°	10119
40°	3979
45°	2946
50°	2593
55°	2409
60°	2500
65°	2594
70°	2436
75°	2711
80°	2399
85°	1510

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2946 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.4	27.1
10°-20°	279.6	42.6
20°-30°	147.5	22.5
30°-40°	29.0	4.4
40°-50°	7.6	1.2
50°-60°	5.9	0.9
60°-70°	4.7	0.7
70°-80°	3.1	0.5
80°-90°	0.8	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°	604.5	92.2
0°-40°	633.6	96.6
0°-60°	647.0	98.7
0°-90°	655.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	655.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2181	
5°	2017	177
15°	1003	280
25°	308	147
35°	38	29
45°	10	8
55°	6	6
65°	5	5
75°	3	3
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2181.3
2.5°	2149.1
5°	2017.4
7.5°	1813.9
10°	1541.1
12.5°	1259.5
15°	1003.1
17.5°	790.7
20°	621.2
22.5°	459.9
25°	308.1
27.5°	196.6
30°	118.5
32.5°	68.7
35°	37.8
37.5°	20.2
40°	13.9
42.5°	11.3
45°	9.5
47.5°	8.2
50°	7.6
52.5°	6.9
55°	6.3
57.5°	6.3
60°	5.7
62.5°	5.0
65°	5.0
67.5°	4.4
70°	3.8
72.5°	3.2
75°	3.2
77.5°	2.5
80°	1.9
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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