

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: P886052

Luminaire Tested: ML104LSFLD2W1E-TIR1D55WFL-TL1SDMW-200LM-3500K

Issue Date: 6/19/2024

Test Information

Test Method: LM-79-2019
Report Number: P886052
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-148)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/19/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML104LSFLD2W1E-TIR1D55WFL-TL1SDMW-200LM-3500K
Description: 1IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE WHITE TRIM
Light Source: (1) D2W LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 223.3 lumens
Efficiency: N/A
Efficacy: 69.8 lumens/watt
Spacing Criteria (0/90/45): 0.8 / 0.83 / 0.8
Luminous Opening: Rectangular (W 0.08' x L: 0.08' x H: 0')

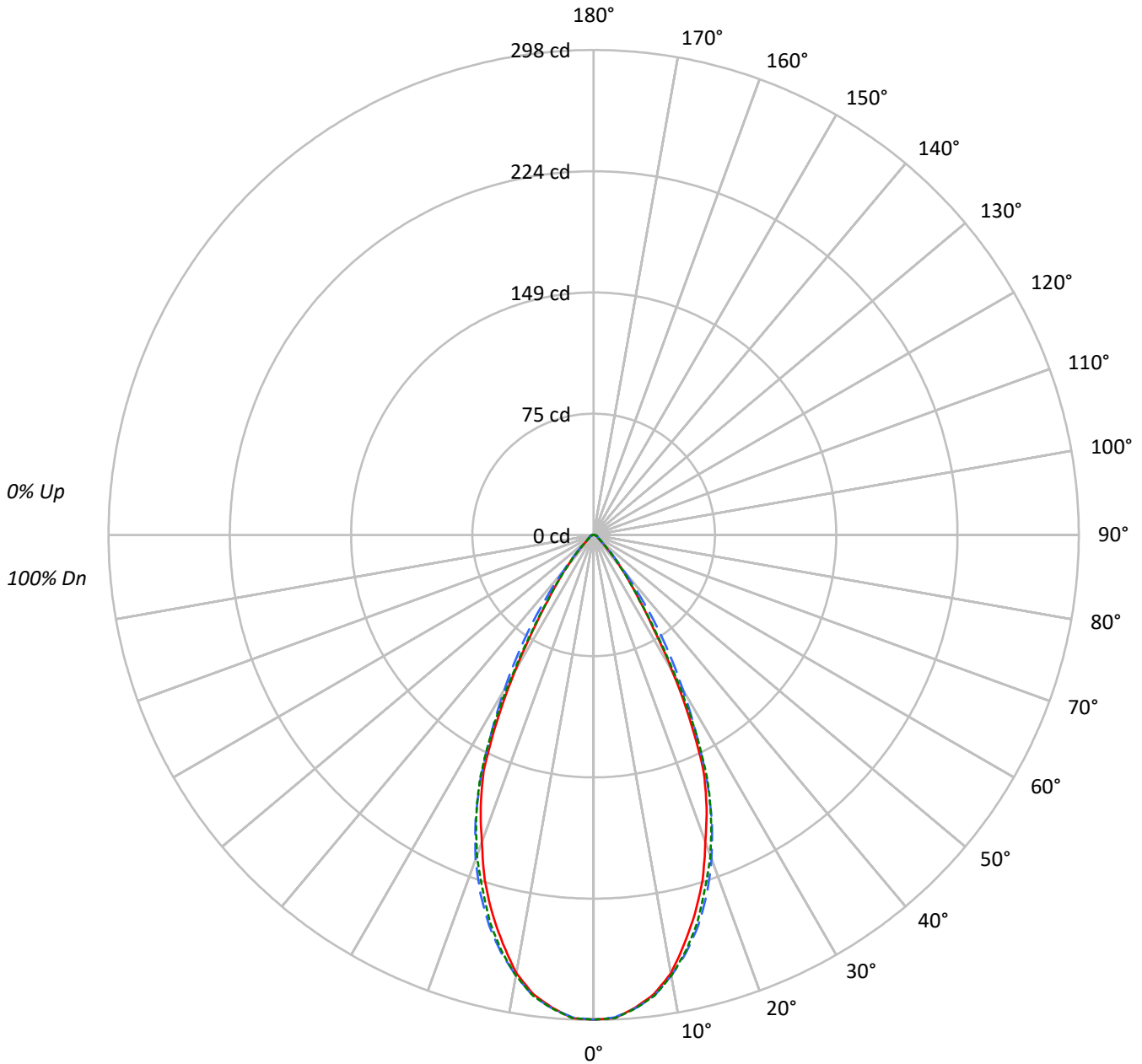
CIE Type: Direct

Input Watts (W): 3.2
Input Voltage (V): NR
Input Current (Ain): 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	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93					93			
2	108	103	99	96	106	101	98	94	98	95	92	95	93	90	92	90	89	87					87			
3	103	96	91	87	101	95	90	87	92	88	85	90	87	84	87	85	83	81					81			
4	98	90	85	80	96	89	84	80	87	82	79	85	81	78	83	80	77	76					76			
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71					71			
6	88	80	74	70	87	79	73	69	77	73	69	76	72	68	75	71	68	67					67			
7	84	75	69	65	83	75	69	65	73	68	65	72	68	64	71	67	64	63					63			
8	80	71	65	61	79	71	65	61	69	64	61	68	64	61	68	63	60	59					59			
9	77	67	62	58	76	67	61	58	66	61	57	65	61	57	64	60	57	56					56			
10	73	64	58	55	72	64	58	55	63	58	54	62	57	54	61	57	54	53					53			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	461595	461595	461595
5°	453867	454645	454645
10°	430312	432830	432830
15°	386250	398606	395076
20°	331053	349363	345734
25°	273128	279797	282534
30°	172716	195447	180591
35°	92340	121670	93476
40°	51597	58274	49371
45°	24332	28058	25428
50°	13263	14710	14710
55°	10539	10539	10539
60°	8680	8680	8680
65°	8069	10269	8069
70°	9970	9970	9970
75°	10181	10181	10181
80°	9819	9819	9819
85°	10671	10671	10671

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 28058 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.4	12.3
10°-20°	68.2	30.6
20°-30°	72.7	32.6
30°-40°	36.4	16.3
40°-50°	10.4	4.6
50°-60°	3.6	1.6
60°-70°	2.5	1.1
70°-80°	1.6	0.7
80°-90°	0.5	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°	168.3	75.4
0°-40°	204.7	91.7
0°-60°	218.7	97.9
0°-90°	223.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	223.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	298	298	298	298	298	
5°	292	292	292	292	292	27
15°	241	243	248	247	246	67
25°	160	161	164	165	165	70
35°	49	54	64	54	49	33
45°	11	12	13	12	12	10
55°	4	4	4	4	4	4
65°	2	3	3	3	2	2
75°	2	2	2	2	2	2
85°	1	1	1	1	1	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	297.8	297.8	297.8	297.8	297.8
2.5°	297.2	296.7	296.7	297.2	297.2
5°	291.7	292.2	292.2	292.2	292.2
7.5°	284.5	285.0	285.6	286.1	285.6
10°	273.4	273.9	275.0	276.2	275.0
12.5°	257.3	260.1	262.8	262.3	261.7
15°	240.7	243.4	248.4	246.8	246.2
17.5°	222.4	225.7	231.2	230.7	227.4
20°	200.7	205.7	211.8	210.2	209.6
22.5°	181.3	185.2	189.6	190.2	188.5
25°	159.7	161.4	163.6	165.2	165.2
27.5°	128.1	133.1	134.7	136.4	134.2
30°	96.5	103.1	109.2	107.6	100.9
32.5°	68.8	77.1	86.0	79.9	71.5
35°	48.8	53.8	64.3	54.3	49.4
37.5°	35.5	37.2	44.4	37.7	35.5
40°	25.5	26.1	28.8	26.1	24.4
42.5°	17.2	18.3	19.4	18.3	17.2
45°	11.1	11.6	12.8	12.2	11.6
47.5°	7.2	7.8	8.3	8.3	8.3
50°	5.5	5.5	6.1	6.7	6.1
52.5°	4.4	4.4	5.0	5.0	4.4
55°	3.9	3.9	3.9	3.9	3.9
57.5°	3.3	3.3	3.3	3.3	3.3
60°	2.8	2.8	2.8	2.8	2.8
62.5°	2.8	2.8	2.8	2.8	2.8
65°	2.2	2.8	2.8	2.8	2.2
67.5°	2.2	2.2	2.2	2.2	2.2
70°	2.2	2.2	2.2	2.2	2.2
72.5°	1.7	1.7	1.7	1.7	1.7
75°	1.7	1.7	1.7	1.7	1.7
77.5°	1.1	1.1	1.1	1.1	1.1
80°	1.1	1.1	1.1	1.1	1.1
82.5°	0.6	0.6	0.6	0.6	0.6
85°	0.6	0.6	0.6	0.6	0.6
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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