

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: P886058

Luminaire Tested: ML104LSFLD2W1E-TIR1D55WFL-TL1SDSLB-200LM-3500K

Issue Date: 6/19/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P886058  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-152)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 6/19/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML104LSFLD2W1E-TIR1D55WFL-TL1SDSLB-200LM-3500K  
Description: 1IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, METALLIC SILVER BAFFLED TRIM  
Light Source: (1) D2W LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

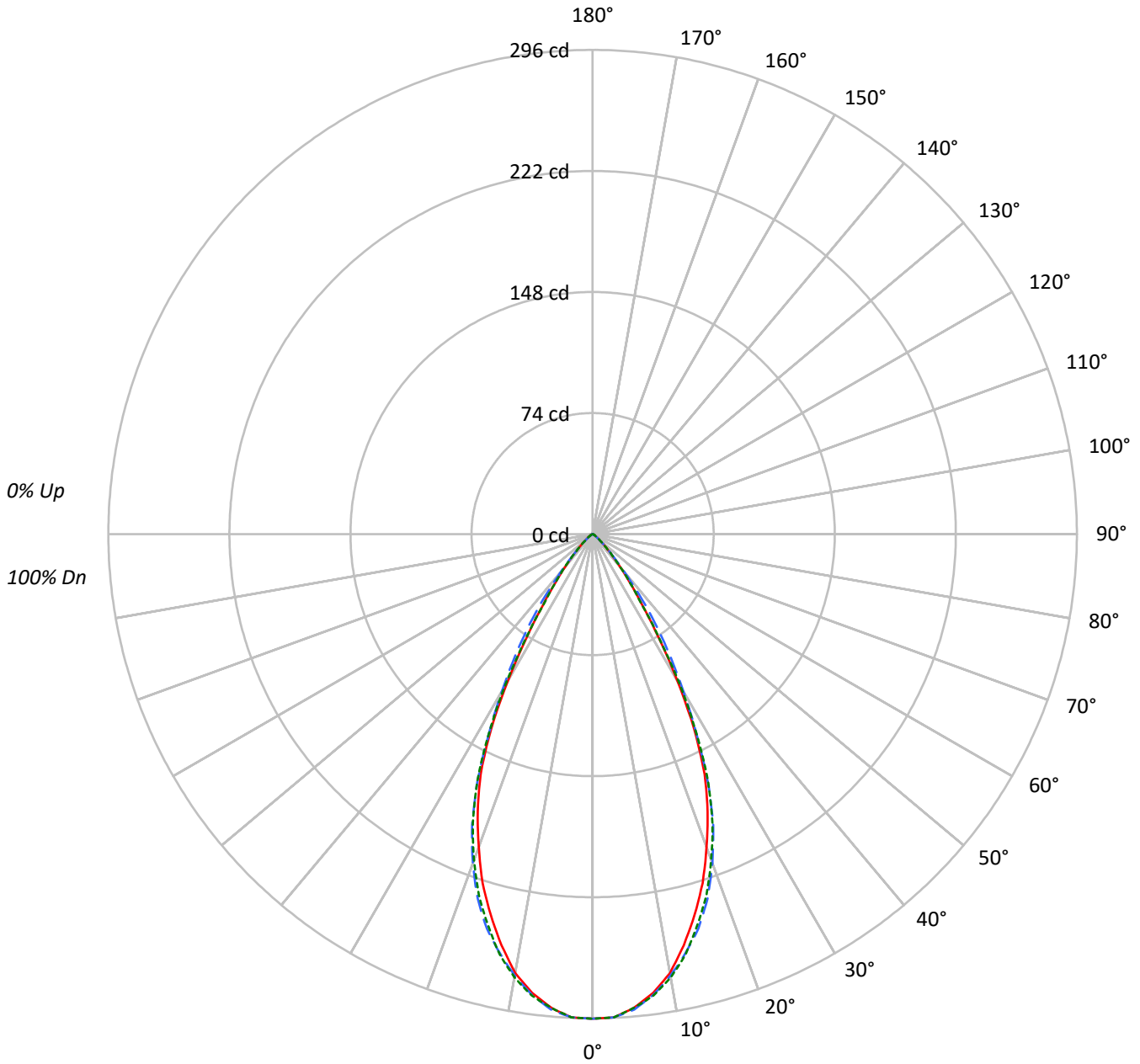
Lumens per Lamp: N/A  
Luminaire Lumens: 221.0 lumens  
Efficiency: N/A  
Efficacy: 69.0 lumens/watt  
Spacing Criteria (0/90/45): 0.81 / 0.84 / 0.81  
Luminous Opening: Rectangular (W 0.08' x L: 0.08' x H: 0')  
CIE Type: Direct

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									
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	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94																			
2	108	104	100	97	106	102	99	96	99	96	93	96	94	91	93	91	90	88																			
3	103	97	92	89	101	96	91	88	93	89	86	91	88	85	88	86	84	82																			
4	98	91	86	82	97	90	85	81	88	84	80	86	82	79	84	81	78	77																			
5	94	86	80	76	92	85	80	76	83	78	75	81	77	74	80	76	74	72																			
6	89	81	75	71	88	80	75	71	78	74	70	77	73	70	76	72	69	68																			
7	85	76	70	66	84	76	70	66	74	69	66	73	69	66	72	68	65	64																			
8	81	72	66	62	80	72	66	62	70	66	62	69	65	62	69	65	62	60																			
9	78	68	63	59	76	68	62	59	67	62	59	66	62	58	65	61	58	57																			
10	74	65	59	56	73	64	59	56	64	59	55	63	58	55	62	58	55	54																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	459270	459270	459270
5°	452311	454022	452311
10°	428738	431414	433145
15°	386411	400692	397001
20°	335837	353156	349528
25°	277061	284586	285612
30°	184708	197594	191688
35°	99720	126022	97639
40°	52811	60702	53823
45°	25647	26743	25647
50°	12057	10610	12057
55°	7567	4594	7567
60°	5270	1860	5270
65°	4034	2201	4034
70°	2719	0	2719
75°	0	0	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 26743 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	27.2	12.3
10°-20°	68.5	31.0
20°-30°	74.1	33.6
30°-40°	37.9	17.2
40°-50°	10.0	4.5
50°-60°	2.2	1.0
60°-70°	0.8	0.3
70°-80°	0.1	0.1
80°-90°	0.0	0.0
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°	169.9	76.9
0°-40°	207.8	94.1
0°-60°	220.1	99.6
0°-90°	221.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	221.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	296	296	296	296	296	
5°	291	291	292	291	291	27
15°	241	244	250	248	247	67
25°	162	164	166	168	167	72
35°	53	56	67	58	52	35
45°	12	11	12	11	12	10
55°	3	2	2	2	3	3
65°	1	1	1	1	1	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	296.3	296.3	296.3	296.3	296.3
2.5°	295.7	295.7	295.7	295.7	295.7
5°	290.7	291.3	291.8	291.3	290.7
7.5°	282.9	282.9	284.1	284.6	284.6
10°	272.4	273.0	274.1	275.2	275.2
12.5°	257.4	260.2	262.4	261.9	263.0
15°	240.8	244.1	249.7	248.0	247.4
17.5°	223.6	227.5	233.6	231.9	231.3
20°	203.6	208.0	214.1	212.5	211.9
22.5°	183.6	187.5	192.5	192.5	191.4
25°	162.0	163.7	166.4	168.1	167.0
27.5°	134.3	138.1	137.0	139.8	137.6
30°	103.2	107.6	110.4	109.8	107.1
32.5°	74.9	80.4	87.7	82.7	76.6
35°	52.7	56.0	66.6	57.7	51.6
37.5°	37.2	38.8	46.6	38.3	37.2
40°	26.1	26.6	30.0	26.6	26.6
42.5°	17.8	17.8	18.9	17.8	17.8
45°	11.7	11.1	12.2	11.1	11.7
47.5°	7.8	7.2	7.2	7.2	7.2
50°	5.0	5.0	4.4	4.4	5.0
52.5°	3.9	3.3	2.8	3.3	3.3
55°	2.8	2.2	1.7	2.2	2.8
57.5°	1.7	1.7	1.1	1.7	1.7
60°	1.7	1.1	0.6	1.1	1.7
62.5°	1.1	1.1	0.6	1.1	1.1
65°	1.1	0.6	0.6	0.6	1.1
67.5°	0.6	0.6	0.6	0.6	0.6
70°	0.6	0.6	0.0	0.6	0.6
72.5°	0.6	0.6	0.0	0.0	0.6
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
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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