

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: P886462

Luminaire Tested: ML204LSFLD2W1E-TIR1D25NFL-TL2SDSLB-400LM-2700K

Issue Date: 6/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P886462  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-93)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 6/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML204LSFLD2W1E-TIR1D25NFL-TL2SDSLB-400LM-2700K  
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 25D TIR, METALLIC SILVER BAFFLED TRIM  
Light Source: (1) D2W LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

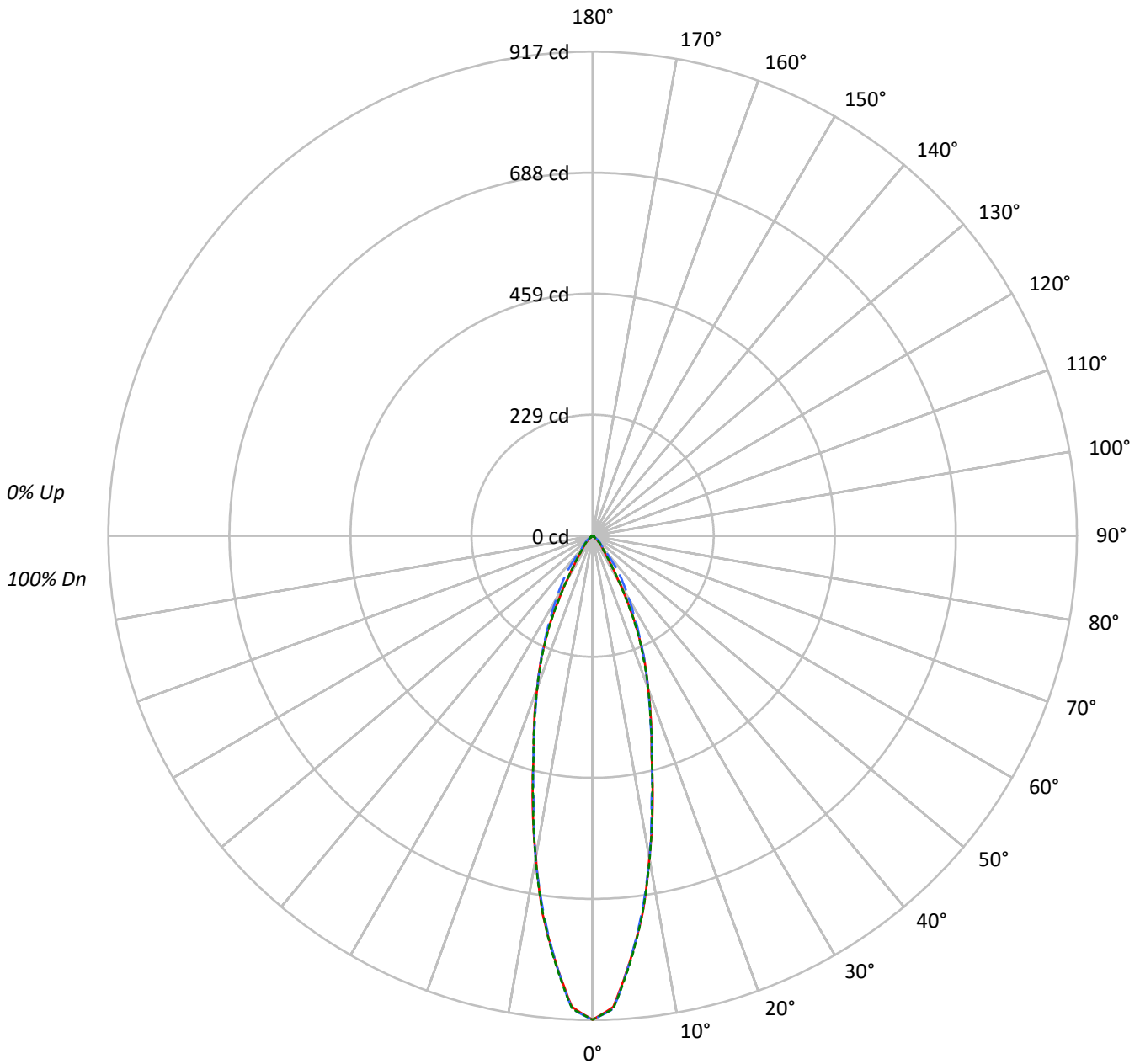
Lumens per Lamp: N/A  
Luminaire Lumens: 346.1 lumens  
Efficiency: N/A  
Efficacy: 55.8 lumens/watt  
Spacing Criteria (0/90/45): 0.47 / 0.47 / 0.55  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 6.2  
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					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								
1	114	112	109	107	112	109	107	106	105	104	102	102	101	99	98	97	97	95								
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	90								
3	105	99	95	91	103	98	94	90	95	92	89	93	90	88	91	88	86	85								
4	100	94	89	85	99	93	88	85	90	87	84	89	85	83	87	84	82	80								
5	96	89	84	80	95	88	83	80	86	82	79	85	81	78	83	80	78	76								
6	92	84	79	76	91	84	79	75	82	78	75	81	77	74	80	76	74	73								
7	89	80	75	72	87	80	75	71	79	74	71	78	74	71	76	73	70	69								
8	85	77	72	68	84	76	71	68	75	71	68	74	70	67	73	70	67	66								
9	82	74	68	65	81	73	68	65	72	68	65	71	67	64	71	67	64	63								
10	79	71	65	62	78	70	65	62	69	65	62	69	65	62	68	64	62	60								

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

	0°	45°	90°
0°	355182	355182	355182
5°	314684	314684	316085
10°	243562	244113	244703
15°	172703	173546	173546
20°	126597	126267	126597
25°	86794	89573	85854
30°	43313	61076	43626
35°	20152	40304	21524
40°	13506	18261	13506
45°	9097	11453	8713
50°	3496	9163	3496
55°	2432	2905	2432
60°	1705	1085	1705
65°	1284	642	1284
70°	793	793	793
75°	1048	1048	1048
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 11453 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.5	20.7
10°-20°	121.6	35.1
20°-30°	94.1	27.2
30°-40°	39.5	11.4
40°-50°	13.9	4.0
50°-60°	3.7	1.1
60°-70°	1.2	0.4
70°-80°	0.6	0.2
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°	287.2	83.0
0°-40°	326.7	94.4
0°-60°	344.3	99.5
0°-90°	346.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	346.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	917	917	917	917	917	
5°	809	813	809	810	813	72
15°	430	433	433	434	433	122
25°	203	210	210	209	201	91
35°	43	53	85	54	46	31
45°	17	18	21	17	16	12
55°	4	3	4	3	4	3
65°	1	1	1	1	1	2
75°	1	1	1	1	1	1
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°	916.6	916.6	916.6	916.6	916.6
2.5°	893.5	892.0	897.1	897.1	896.4
5°	809.0	812.6	809.0	810.4	812.6
7.5°	723.0	720.1	717.2	718.0	722.3
10°	619.0	619.0	620.4	620.4	621.9
12.5°	524.4	515.7	515.0	520.0	520.0
15°	430.5	433.4	432.6	434.1	432.6
17.5°	366.9	363.3	362.6	365.5	364.8
20°	307.0	308.4	306.2	307.7	307.0
22.5°	256.4	255.7	256.4	257.1	252.1
25°	203.0	209.5	209.5	208.7	200.8
27.5°	147.3	163.2	169.7	160.3	145.2
30°	96.8	118.5	136.5	117.0	97.5
32.5°	64.3	78.7	109.8	79.5	65.7
35°	42.6	53.4	85.2	54.2	45.5
37.5°	32.5	39.0	59.2	38.3	33.2
40°	26.7	28.2	36.1	28.9	26.7
42.5°	21.7	22.4	25.3	22.4	21.7
45°	16.6	18.1	20.9	17.3	15.9
47.5°	7.9	12.3	18.1	11.6	10.1
50°	5.8	5.1	15.2	7.2	5.8
52.5°	4.3	3.6	10.8	3.6	4.3
55°	3.6	2.9	4.3	2.9	3.6
57.5°	2.9	2.2	2.2	2.2	2.9
60°	2.2	2.2	1.4	2.2	2.2
62.5°	2.2	1.4	1.4	1.4	2.2
65°	1.4	1.4	0.7	1.4	1.4
67.5°	1.4	0.7	0.7	0.7	1.4
70°	0.7	0.7	0.7	0.7	0.7
72.5°	0.7	0.7	0.7	0.7	0.7
75°	0.7	0.7	0.7	0.7	0.7
77.5°	0.7	0.7	0.0	0.7	0.7
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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