

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: P886486

Luminaire Tested: ML204LSFLD2W1E-TIR1D40FL-TL2SDSLB-400LM-3500K

Issue Date: 6/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P886486  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-99)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 6/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML204LSFLD2W1E-TIR1D40FL-TL2SDSLB-400LM-3500K  
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 40D TIR, METALLIC SILVER BAFFLED TRIM  
Light Source: (1) D2W LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 434.7 lumens  
Efficiency: N/A  
Efficacy: 70.1 lumens/watt  
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.68  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

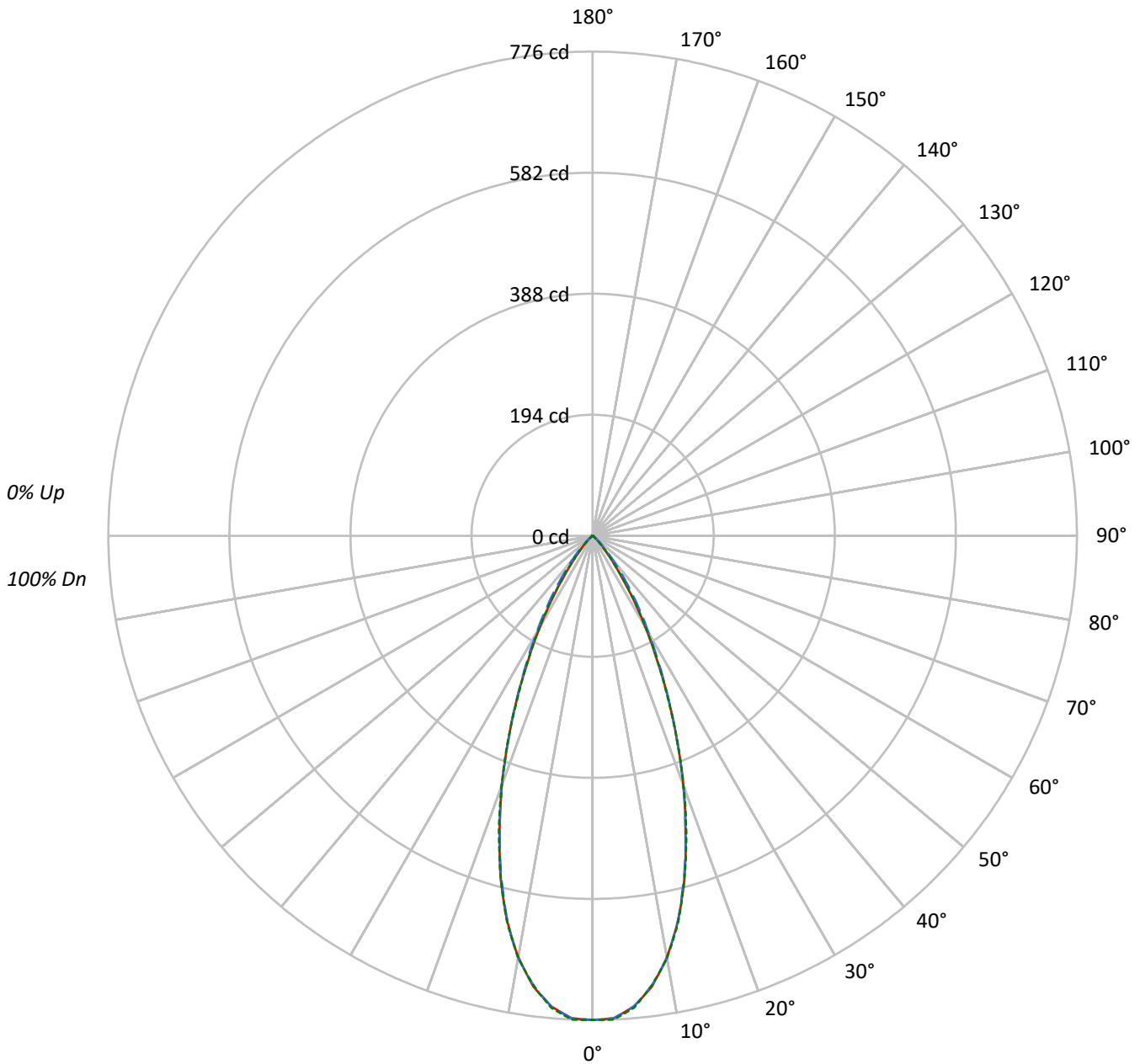
Input Watts (W): 6.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	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	100	99	98	97	96	95								
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89								
3	104	99	94	91	102	97	93	90	95	91	88	92	89	87	90	88	86	84								
4	100	93	88	84	98	92	87	84	90	86	83	88	85	82	86	83	81	80								
5	95	88	83	79	94	87	82	79	85	81	78	84	80	77	82	79	77	75								
6	91	83	78	74	90	83	78	74	81	77	74	80	76	73	79	75	73	71								
7	88	79	74	70	86	79	74	70	77	73	70	76	72	69	75	72	69	68								
8	84	75	70	66	83	75	70	66	74	69	66	73	69	66	72	68	65	64								
9	81	72	67	63	80	71	66	63	71	66	63	70	66	63	69	65	62	61								
10	77	69	63	60	76	68	63	60	67	63	60	67	63	60	66	62	59	58								

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

	0°	45°	90°
0°	300738	300738	300738
5°	294613	294613	295430
10°	269886	270437	270161
15°	228225	227062	227944
20°	175380	175380	175380
25°	121940	121940	120700
30°	75574	80138	75932
35°	38601	48156	39973
40°	17553	25950	18261
45°	7124	11070	7124
50°	2592	5245	2592
55°	1486	1486	1486
60°	542	542	542
65°	642	642	642
70°	793	0	793
75°	1048	0	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 11070 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.1	16.1
10°-20°	155.8	35.8
20°-30°	131.1	30.2
30°-40°	60.3	13.9
40°-50°	14.4	3.3
50°-60°	2.2	0.5
60°-70°	0.7	0.2
70°-80°	0.1	0.0
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°	357.0	82.1
0°-40°	417.3	96.0
0°-60°	433.9	99.8
0°-90°	434.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	434.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	776	776	776	776	776	
5°	757	758	757	758	760	70
15°	569	570	566	566	568	156
25°	285	286	285	286	282	130
35°	82	93	102	94	84	55
45°	13	16	20	17	13	12
55°	2	2	2	2	2	2
65°	1	1	1	1	1	1
75°	1	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°	776.1	776.1	776.1	776.1	776.1
2.5°	774.0	773.3	774.0	774.7	776.1
5°	757.4	758.1	757.4	758.1	759.5
7.5°	728.5	729.2	727.1	727.8	727.1
10°	685.9	687.3	687.3	687.3	686.6
12.5°	632.5	632.5	631.7	629.6	633.9
15°	568.9	570.4	566.0	566.0	568.2
17.5°	495.3	496.0	494.6	498.9	499.6
20°	425.3	426.0	425.3	424.5	425.3
22.5°	352.3	355.2	351.6	356.7	353.1
25°	285.2	285.9	285.2	285.9	282.3
27.5°	220.9	222.4	228.9	225.3	222.4
30°	168.9	172.6	179.1	172.6	169.7
32.5°	122.7	131.4	138.6	133.6	124.9
35°	81.6	93.1	101.8	93.9	84.5
37.5°	54.1	59.9	72.9	61.4	54.9
40°	34.7	39.0	51.3	39.7	36.1
42.5°	23.1	26.0	33.2	26.7	23.8
45°	13.0	15.9	20.2	16.6	13.0
47.5°	6.5	8.7	13.7	8.7	6.5
50°	4.3	4.3	8.7	4.3	4.3
52.5°	2.9	2.9	4.3	2.9	2.9
55°	2.2	2.2	2.2	2.2	2.2
57.5°	1.4	1.4	1.4	1.4	1.4
60°	0.7	0.7	0.7	0.7	0.7
62.5°	0.7	0.7	0.7	0.7	0.7
65°	0.7	0.7	0.7	0.7	0.7
67.5°	0.7	0.7	0.7	0.7	0.7
70°	0.7	0.7	0.0	0.7	0.7
72.5°	0.7	0.0	0.0	0.0	0.7
75°	0.7	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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