

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: P886506

Luminaire Tested: ML204LSFLD2W1E-TIR1D55WFL-TL2SDMWB-400LM-3500K

Issue Date: 6/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P886506  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-104)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 6/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML204LSFLD2W1E-TIR1D55WFL-TL2SDMWB-400LM-3500K  
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE WHITE BAFFLED TRIM  
Light Source: (1) D2W LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

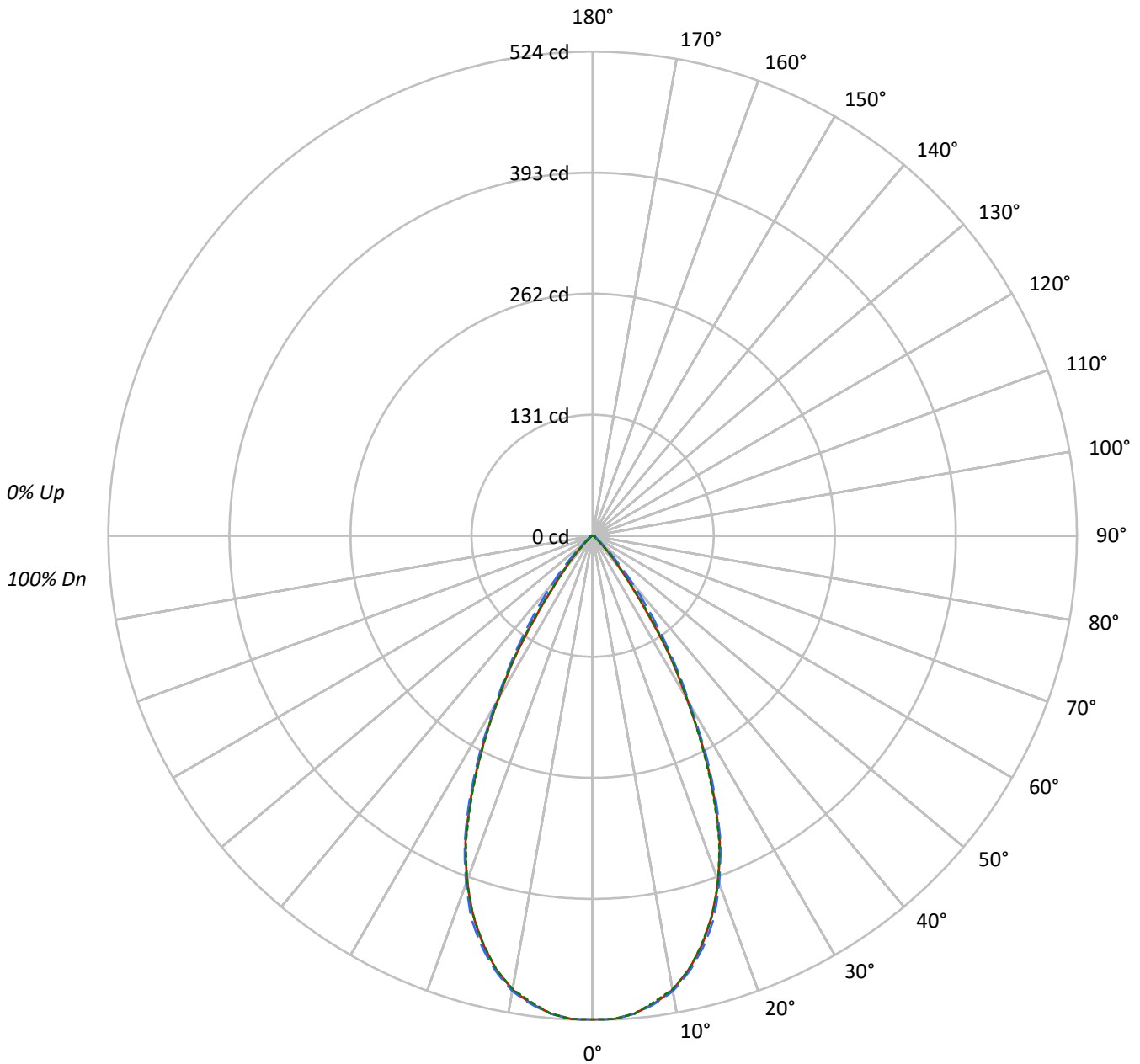
Lumens per Lamp: N/A  
Luminaire Lumens: 422.6 lumens  
Efficiency: N/A  
Efficacy: 68.2 lumens/watt  
Spacing Criteria (0/90/45): 0.87 / 0.87 / 0.83  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

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					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	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94					94			
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	93	91	89	87					87			
3	103	96	92	88	101	95	91	87	92	89	86	90	87	84	88	85	83	81					81			
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	78	76					76			
5	93	85	79	75	91	84	79	75	82	77	74	80	76	73	79	75	73	71					71			
6	88	80	74	70	87	79	74	70	78	73	69	76	72	69	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	67	63	60	59					59			
9	77	67	62	58	76	67	61	58	66	61	57	65	60	57	64	60	57	56					56			
10	73	64	58	54	72	63	58	54	63	58	54	62	57	54	61	57	54	53					53			

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

	0°	45°	90°
0°	202856	202856	202856
5°	201919	201919	201919
10°	196306	196896	196030
15°	183655	185099	183334
20°	163751	164947	163751
25°	132757	134595	131816
30°	91100	93695	91771
35°	50900	60456	53265
40°	23370	33942	23724
45°	10303	15454	10303
50°	4762	6993	4762
55°	2905	3918	2905
60°	2247	2790	2247
65°	2659	2659	2659
70°	2493	2493	2493
75°	2096	2096	2096
80°	3124	3124	3124
85°	3112	3112	3112

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 15454 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.9	11.6
10°-20°	127.7	30.2
20°-30°	140.3	33.2
30°-40°	75.9	18.0
40°-50°	19.7	4.7
50°-60°	4.9	1.2
60°-70°	2.8	0.7
70°-80°	1.8	0.4
80°-90°	0.6	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°	316.9	75.0
0°-40°	392.8	93.0
0°-60°	417.4	98.8
0°-90°	422.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	422.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	524	524	524	524	524	
5°	519	518	519	518	519	49
15°	458	460	461	458	457	127
25°	310	313	315	313	308	140
35°	108	122	128	121	113	70
45°	19	21	28	22	19	17
55°	4	5	6	5	4	4
65°	3	3	3	3	3	3
75°	1	1	1	1	1	2
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	523.5	523.5	523.5	523.5	523.5
2.5°	523.5	523.5	523.5	522.7	523.5
5°	519.1	518.4	519.1	518.4	519.1
7.5°	510.5	511.2	511.2	511.2	509.0
10°	498.9	498.9	500.4	498.9	498.2
12.5°	480.9	482.3	483.0	480.1	480.9
15°	457.8	459.9	461.4	457.8	457.0
17.5°	430.3	431.8	435.4	433.2	430.3
20°	397.1	400.0	400.0	398.6	397.1
22.5°	359.6	361.7	361.7	360.3	358.1
25°	310.5	312.6	314.8	313.4	308.3
27.5°	258.5	257.8	263.5	259.9	256.3
30°	203.6	206.5	209.4	206.5	205.1
32.5°	158.8	163.2	166.8	163.9	160.3
35°	107.6	122.0	127.8	121.3	112.6
37.5°	69.3	80.9	93.9	80.9	70.8
40°	46.2	50.5	67.1	52.0	46.9
42.5°	31.0	33.9	44.8	34.7	31.8
45°	18.8	20.9	28.2	21.7	18.8
47.5°	11.6	13.0	17.3	13.0	11.6
50°	7.9	9.4	11.6	9.4	7.9
52.5°	5.8	6.5	7.9	6.5	5.8
55°	4.3	5.1	5.8	5.1	4.3
57.5°	3.6	3.6	4.3	3.6	3.6
60°	2.9	3.6	3.6	3.6	2.9
62.5°	2.9	2.9	2.9	2.9	2.9
65°	2.9	2.9	2.9	2.9	2.9
67.5°	2.2	2.9	2.9	2.9	2.2
70°	2.2	2.2	2.2	2.2	2.2
72.5°	2.2	2.2	2.2	2.2	2.2
75°	1.4	1.4	1.4	1.4	1.4
77.5°	1.4	1.4	1.4	1.4	1.4
80°	1.4	1.4	1.4	1.4	1.4
82.5°	0.7	0.7	0.7	0.7	0.7
85°	0.7	0.7	0.7	0.7	0.7
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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