

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: P886507

Luminaire Tested: ML204LSFLD2W1E-TIR1D55WFL-TL2SDMWB-400LM-4000K

Issue Date: 6/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P886507  
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-4000K  
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE WHITE BAFFLED TRIM  
Light Source: (1) D2W LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 452.9 lumens  
Efficiency: N/A  
Efficacy: 73.0 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

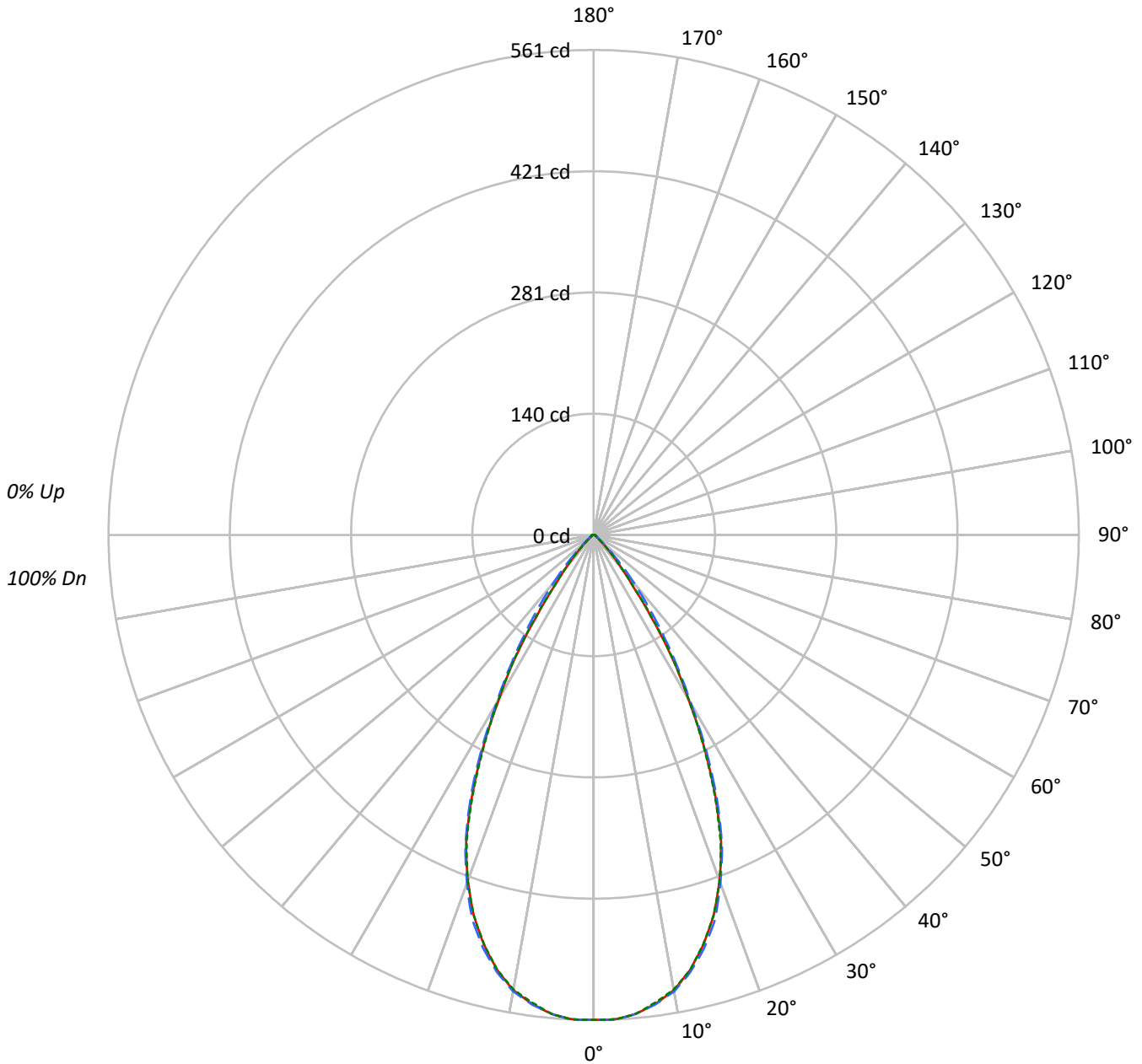
Input Watts (W): 6.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot



0% Up  
100% Dn



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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	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94																			
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	93	91	89	87																			
3	103	96	92	88	101	95	91	87	92	89	86	90	87	84	88	85	83	81																			
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	78	76																			
5	93	85	79	75	91	84	79	75	82	77	74	80	76	73	79	75	73	71																			
6	88	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67																			
7	84	75	69	65	83	75	69	65	73	68	65	72	68	64	71	67	64	63																			
8	80	71	65	61	79	71	65	61	69	64	61	68	64	61	67	63	60	59																			
9	77	67	62	58	76	67	61	58	66	61	57	65	60	57	64	60	57	56																			
10	73	64	58	54	72	63	58	54	63	58	54	62	57	54	61	57	54	53																			

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

	0°	45°	90°
0°	217387	217387	217387
5°	216389	216389	216389
10°	210392	210982	210077
15°	196813	198338	196493
20°	175504	176782	175504
25°	142249	144258	141265
30°	97633	100407	98304
35°	54543	64808	57097
40°	25039	36421	25444
45°	11015	16550	11015
50°	5124	7475	5124
55°	3108	4189	3108
60°	2402	3022	2402
65°	2842	2842	2842
70°	2606	2606	2606
75°	2246	2246	2246
80°	3347	3347	3347
85°	3557	3557	3557

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 16550 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	52.4	11.6
10°-20°	136.9	30.2
20°-30°	150.4	33.2
30°-40°	81.3	18.0
40°-50°	21.1	4.7
50°-60°	5.2	1.2
60°-70°	3.0	0.7
70°-80°	1.9	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°	339.7	75.0
0°-40°	421.0	93.0
0°-60°	447.3	98.8
0°-90°	452.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	452.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	561	561	561	561	561	
5°	556	556	556	556	556	52
15°	491	493	494	491	490	136
25°	333	335	337	336	330	150
35°	115	131	137	130	121	75
45°	20	22	30	23	20	18
55°	5	5	6	5	5	5
65°	3	3	3	3	3	3
75°	2	2	2	2	2	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°	561.0	561.0	561.0	561.0	561.0
2.5°	561.0	561.0	561.0	560.2	561.0
5°	556.3	555.6	556.3	555.6	556.3
7.5°	547.1	547.8	547.8	547.8	545.5
10°	534.7	534.7	536.2	534.7	533.9
12.5°	515.3	516.9	517.6	514.6	515.3
15°	490.6	492.9	494.4	490.6	489.8
17.5°	461.2	462.7	466.6	464.3	461.2
20°	425.6	428.7	428.7	427.1	425.6
22.5°	385.3	387.7	387.7	386.1	383.8
25°	332.7	335.0	337.4	335.8	330.4
27.5°	277.0	276.2	282.4	278.6	274.7
30°	218.2	221.3	224.4	221.3	219.7
32.5°	170.2	174.9	178.7	175.6	171.8
35°	115.3	130.8	137.0	130.0	120.7
37.5°	74.3	86.7	100.6	86.7	75.8
40°	49.5	54.2	72.0	55.7	50.3
42.5°	33.3	36.4	48.0	37.1	34.0
45°	20.1	22.4	30.2	23.2	20.1
47.5°	12.4	13.9	18.6	13.9	12.4
50°	8.5	10.1	12.4	10.1	8.5
52.5°	6.2	7.0	8.5	7.0	6.2
55°	4.6	5.4	6.2	5.4	4.6
57.5°	3.9	3.9	4.6	3.9	3.9
60°	3.1	3.9	3.9	3.9	3.1
62.5°	3.1	3.1	3.1	3.1	3.1
65°	3.1	3.1	3.1	3.1	3.1
67.5°	2.3	3.1	3.1	3.1	2.3
70°	2.3	2.3	2.3	2.3	2.3
72.5°	2.3	2.3	2.3	2.3	2.3
75°	1.5	1.5	1.5	1.5	1.5
77.5°	1.5	1.5	1.5	1.5	1.5
80°	1.5	1.5	1.5	1.5	1.5
82.5°	0.8	0.8	0.8	0.8	0.8
85°	0.8	0.8	0.8	0.8	0.8
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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