

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: P886501

Luminaire Tested: ML204LSFLD2W1E-TIR1D55WFL-TL2SDMB-400LM-4000K

Issue Date: 6/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P886501  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-103)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 6/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML204LSFLD2W1E-TIR1D55WFL-TL2SDMB-400LM-4000K  
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE BLACK TRIM  
Light Source: (1) D2W LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

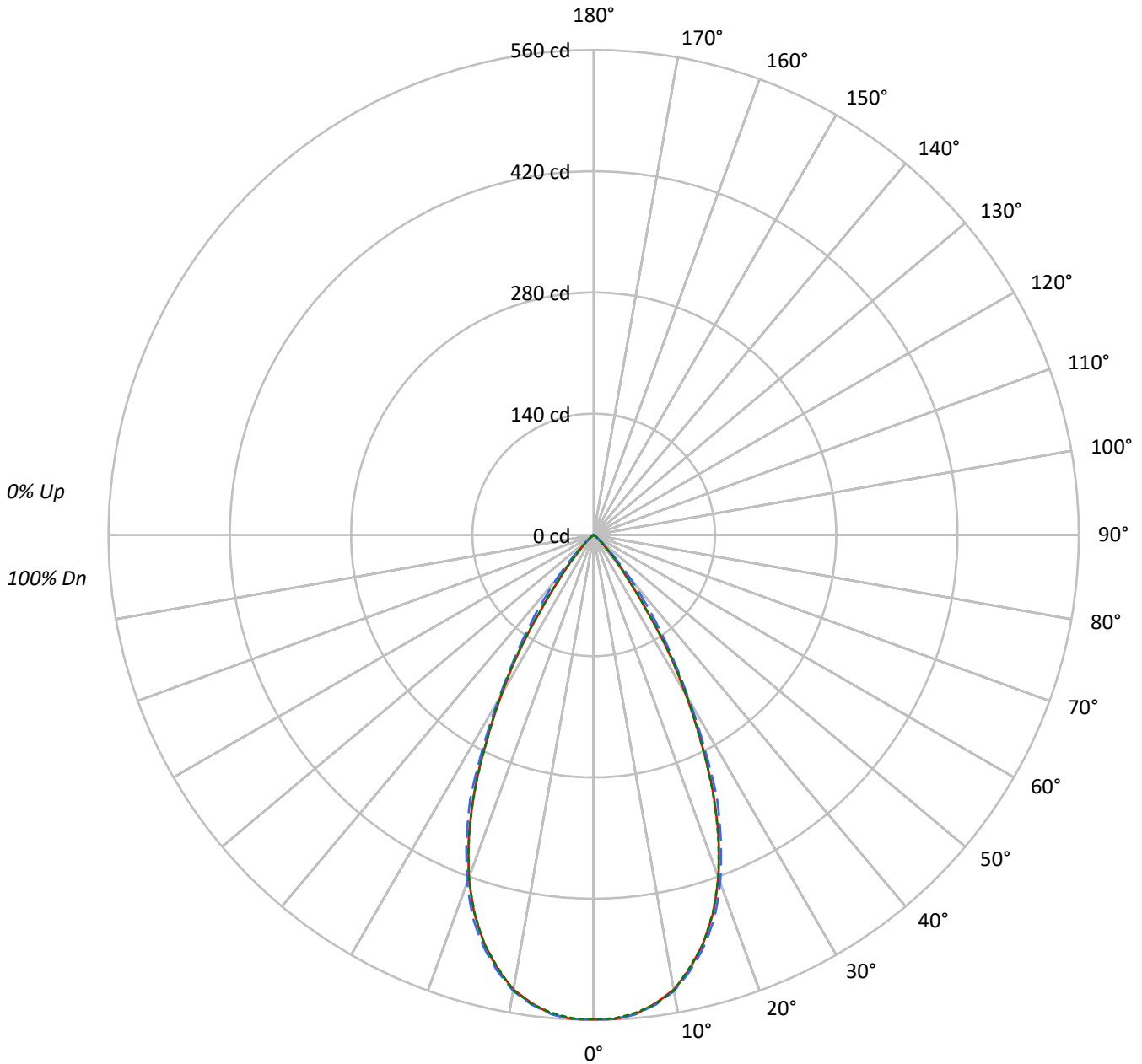
Lumens per Lamp: N/A  
Luminaire Lumens: 431.4 lumens  
Efficiency: N/A  
Efficacy: 69.6 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.82  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

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									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	109	104	100	97	106	102	99	96	99	96	94	96	94	92	93	92	90	88																			
3	104	97	93	89	102	96	92	88	94	90	87	91	88	86	89	86	84	83																			
4	99	92	86	82	97	90	86	82	88	84	81	86	83	80	85	82	79	78																			
5	94	86	81	77	92	85	80	76	83	79	76	82	78	75	80	77	74	73																			
6	90	81	76	72	88	80	75	71	79	74	71	78	73	70	76	73	70	68																			
7	85	77	71	67	84	76	71	67	75	70	67	74	69	66	73	69	66	64																			
8	82	73	67	63	80	72	67	63	71	66	63	70	66	62	69	65	62	61																			
9	78	69	63	59	77	68	63	59	67	63	59	67	62	59	66	62	59	57																			
10	75	65	60	56	74	65	60	56	64	59	56	63	59	56	63	59	56	54																			

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

	0°	45°	90°
0°	216806	216806	216806
5°	216117	216117	215495
10°	209763	210392	210077
15°	195891	197415	195891
20°	173566	176122	173566
25°	138956	144258	138614
30°	94859	98349	96246
35°	50522	61875	51610
40°	22308	33639	22712
45°	8494	12275	8494
50°	2351	4220	2773
55°	540	1554	540
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 12275 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	52.3	12.1
10°-20°	136.2	31.6
20°-30°	147.8	34.3
30°-40°	76.8	17.8
40°-50°	16.8	3.9
50°-60°	1.6	0.4
60°-70°	0.0	0.0
70°-80°	0.0	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°	336.3	78.0
0°-40°	413.1	95.7
0°-60°	431.4	100.0
0°-90°	431.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	431.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	560	560	560	560	560	
5°	556	555	556	555	554	52
15°	488	490	492	489	488	136
25°	325	327	337	326	324	146
35°	107	120	131	122	109	71
45°	16	17	22	17	16	14
55°	1	2	2	1	1	1
65°	0	0	0	0	0	0
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°	559.5	559.5	559.5	559.5	559.5
2.5°	559.5	558.7	559.5	559.5	558.7
5°	555.6	554.8	555.6	554.8	554.0
7.5°	545.5	546.3	547.1	546.3	546.3
10°	533.1	533.9	534.7	533.9	533.9
12.5°	513.0	514.6	515.3	514.6	511.5
15°	488.3	489.8	492.1	489.0	488.3
17.5°	458.1	462.0	463.5	460.4	457.3
20°	420.9	424.8	427.1	424.8	420.9
22.5°	376.8	382.3	383.8	381.5	375.3
25°	325.0	327.3	337.4	326.5	324.2
27.5°	267.7	271.6	276.2	272.4	266.2
30°	212.0	215.9	219.8	217.4	215.1
32.5°	161.7	171.0	171.8	168.7	164.8
35°	106.8	119.9	130.8	122.3	109.1
37.5°	67.3	75.8	95.2	76.6	68.1
40°	44.1	48.0	66.5	48.7	44.9
42.5°	27.9	31.0	41.0	30.2	27.9
45°	15.5	17.0	22.4	17.0	15.5
47.5°	7.7	9.3	13.2	9.3	8.5
50°	3.9	5.4	7.0	5.4	4.6
52.5°	1.5	3.1	3.9	3.1	2.3
55°	0.8	1.5	2.3	0.8	0.8
57.5°	0.0	0.0	0.8	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
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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