

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: P886456

Luminaire Tested: ML204LSFLD2W1E-TIR1D25NFL-TL2SDMW-400LM-2700K

Issue Date: 6/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P886456  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-89)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 6/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML204LSFLD2W1E-TIR1D25NFL-TL2SDMW-400LM-2700K  
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE WHITE TRIM  
Light Source: (1) D2W LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 358.6 lumens  
Efficiency: N/A  
Efficacy: 57.8 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

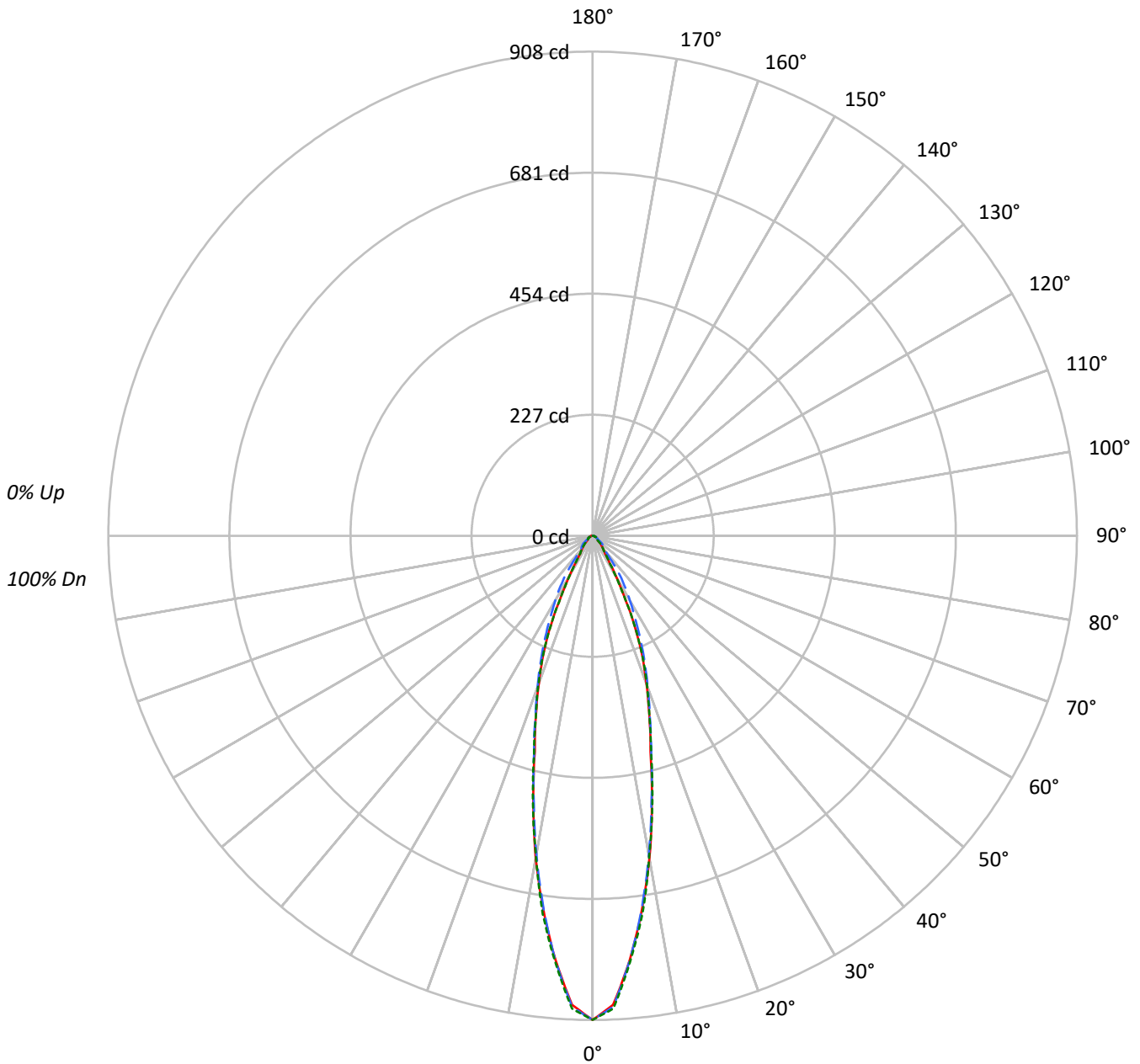
Input Watts (W): 6.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					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	113	111	108	106	111	109	106	104	104	103	101	101	99	98	97	96	95	93				
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87				
3	103	97	92	88	101	95	91	87	93	89	86	90	87	85	88	86	83	82				
4	98	91	86	82	97	90	85	81	88	84	80	86	82	79	84	81	79	77				
5	94	86	81	77	92	85	80	76	83	79	76	82	78	75	80	77	74	73				
6	90	82	76	72	89	81	76	72	79	75	71	78	74	71	77	73	70	69				
7	86	78	72	68	85	77	72	68	76	71	68	75	70	67	74	70	67	66				
8	83	74	69	65	82	73	68	65	72	68	64	71	67	64	71	67	64	63				
9	80	71	65	62	79	70	65	62	69	65	61	69	64	61	68	64	61	60				
10	77	68	62	59	76	67	62	59	67	62	59	66	62	59	65	61	58	57				

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

	0°	45°	90°
0°	351772	351772	351772
5°	310678	310989	312389
10°	241556	238998	240415
15°	168050	170336	170336
20°	121525	124205	122680
25°	79654	89531	79654
30°	38794	62374	37496
35°	19490	40304	19111
40°	14619	17907	14619
45°	11453	15454	11070
50°	7415	13926	7415
55°	7296	7837	7296
60°	7285	7285	7285
65°	6602	6602	6602
70°	5778	6571	5778
75°	5390	5390	5390
80°	4909	4909	4909
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°	70.4	19.6
10°-20°	119.1	33.2
20°-30°	90.3	25.2
30°-40°	37.9	10.6
40°-50°	17.9	5.0
50°-60°	10.3	2.9
60°-70°	7.3	2.0
70°-80°	3.9	1.1
80°-90°	1.3	0.4
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°	279.8	78.0
0°-40°	317.8	88.6
0°-60°	346.0	96.5
0°-90°	358.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	358.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	908	908	908	908	908	
5°	799	797	800	799	803	70
15°	419	420	425	424	425	119
25°	186	202	209	202	186	83
35°	41	52	85	51	40	29
45°	21	23	28	23	20	15
55°	11	11	12	11	11	10
65°	7	7	7	7	7	7
75°	4	4	4	4	4	4
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°	907.8	907.8	907.8	907.8	907.8
2.5°	880.3	882.5	884.0	887.6	887.6
5°	798.7	796.6	799.5	798.7	803.1
7.5°	707.7	708.5	704.9	709.2	715.7
10°	613.9	608.1	607.4	610.2	611.0
12.5°	513.5	510.6	509.9	509.9	517.1
15°	418.9	420.3	424.6	423.9	424.6
17.5°	353.1	357.5	357.5	355.3	353.1
20°	294.7	298.3	301.2	298.3	297.5
22.5°	241.9	250.6	254.2	252.0	243.4
25°	186.3	201.5	209.4	201.5	186.3
27.5°	127.1	152.4	169.7	151.7	127.1
30°	86.7	105.4	139.4	104.0	83.8
32.5°	57.1	71.5	111.9	71.5	57.8
35°	41.2	52.0	85.2	51.3	40.4
37.5°	33.9	40.4	53.4	39.7	33.9
40°	28.9	31.1	35.4	31.8	28.9
42.5°	25.3	26.7	31.1	27.4	25.3
45°	20.9	23.1	28.2	23.1	20.2
47.5°	13.0	18.1	25.3	18.1	13.0
50°	12.3	12.3	23.1	12.3	12.3
52.5°	11.6	11.6	17.3	11.6	11.6
55°	10.8	10.8	11.6	10.8	10.8
57.5°	10.1	10.1	10.1	10.1	10.1
60°	9.4	9.4	9.4	9.4	9.4
62.5°	7.9	8.7	8.7	8.7	7.9
65°	7.2	7.2	7.2	7.2	7.2
67.5°	6.5	6.5	6.5	6.5	6.5
70°	5.1	5.8	5.8	5.8	5.1
72.5°	4.3	4.3	4.3	5.1	4.3
75°	3.6	3.6	3.6	3.6	3.6
77.5°	2.9	2.9	2.9	2.9	2.9
80°	2.2	2.2	2.2	2.2	2.2
82.5°	1.4	2.2	1.4	2.2	1.4
85°	0.7	1.4	0.7	1.4	0.7
87.5°	0.7	0.7	0.7	0.7	0.7
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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