

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: P886476

Luminaire Tested: ML204LSFLD2W1E-TIR1D40FL-TL2SDMB-400LM-3500K

Issue Date: 6/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P886476  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-97)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 6/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML204LSFLD2W1E-TIR1D40FL-TL2SDMB-400LM-3500K  
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 40D TIR, MATTE BLACK TRIM  
Light Source: (1) D2W LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

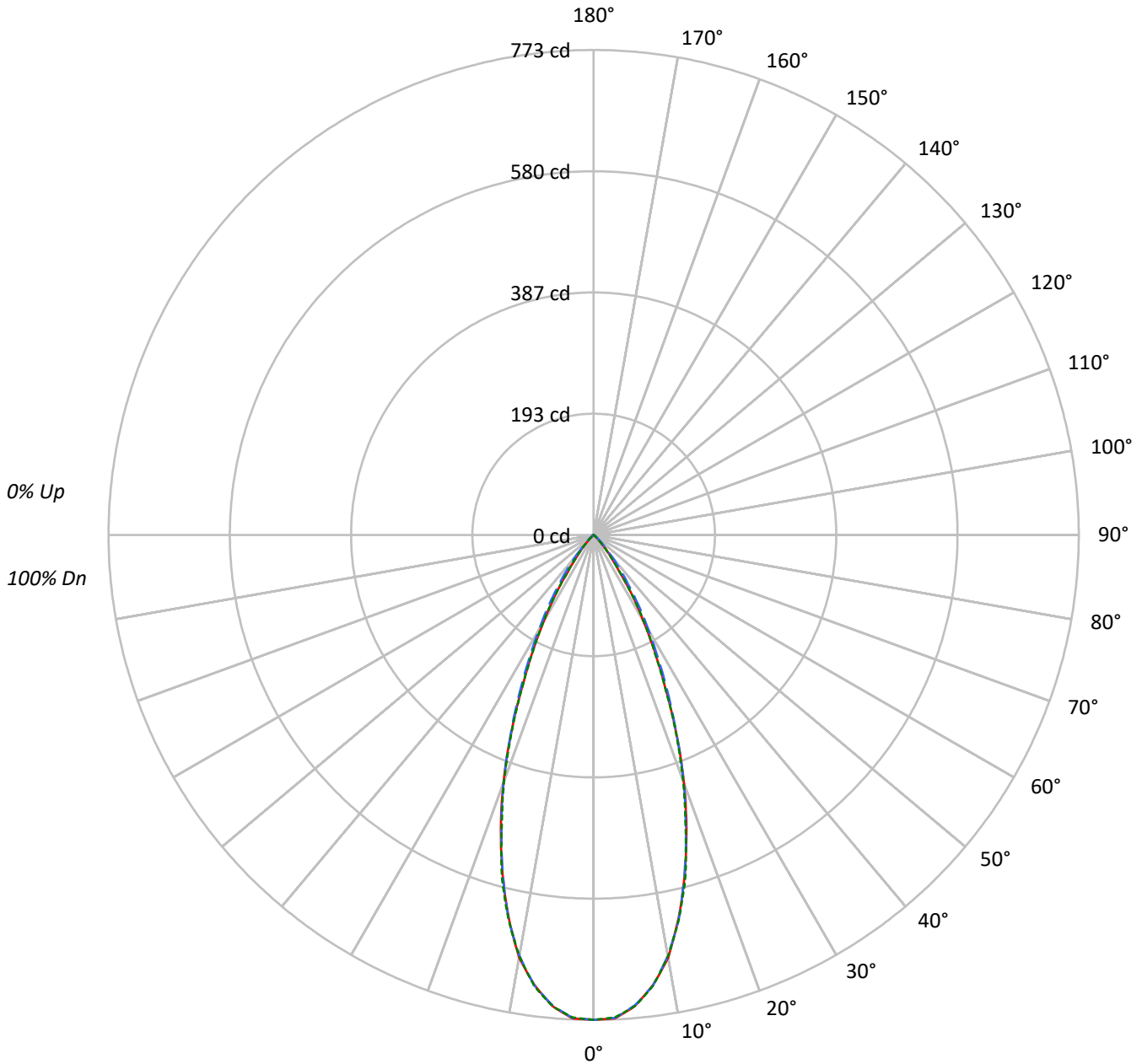
Lumens per Lamp: N/A  
Luminaire Lumens: 419.4 lumens  
Efficiency: N/A  
Efficacy: 67.6 lumens/watt  
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.68  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct

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	110	108	106	105	104	102	102	101	99	98	97	97	95								
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	90								
3	105	99	95	91	103	98	94	90	95	92	89	93	90	88	90	88	86	85								
4	100	94	89	85	98	92	88	84	90	87	83	88	85	83	87	84	82	80								
5	96	89	83	80	94	88	83	79	86	82	79	84	81	78	83	80	77	76								
6	92	84	79	75	91	83	78	75	82	78	74	81	77	74	79	76	73	72								
7	88	80	75	71	87	79	74	71	78	74	70	77	73	70	76	72	70	68								
8	85	76	71	67	83	76	71	67	75	70	67	74	70	67	73	69	66	65								
9	81	73	67	64	80	72	67	64	71	67	64	71	66	63	70	66	63	62								
10	78	69	64	61	77	69	64	61	68	64	61	68	63	61	67	63	60	59								

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

	0°	45°	90°
0°	74865	74865	74865
5°	73323	73187	73323
10°	67285	67000	67069
15°	56214	56134	56645
20°	43412	43258	43041
25°	29031	30036	28946
30°	17697	19475	18021
35°	8373	11270	8621
40°	3933	5843	3743
45°	1192	2370	1192
50°	332	874	332
55°	118	118	118
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: 2370 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.7	16.6
10°-20°	154.0	36.7
20°-30°	127.6	30.4
30°-40°	55.6	13.3
40°-50°	11.6	2.8
50°-60°	0.9	0.2
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°	351.3	83.8
0°-40°	406.9	97.0
0°-60°	419.4	100.0
0°-90°	419.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	419.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	773	773	773	773	773	
5°	754	755	753	753	754	70
15°	560	559	560	563	565	154
25°	272	279	281	275	271	126
35°	71	84	95	83	73	50
45°	9	13	17	13	9	9
55°	1	1	1	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°	772.8	772.8	772.8	772.8	772.8
2.5°	771.4	770.6	770.6	770.6	769.9
5°	754.0	754.8	752.6	753.3	754.0
7.5°	723.7	723.7	724.4	725.9	725.1
10°	684.0	681.1	681.1	682.5	681.8
12.5°	625.5	626.9	626.9	629.8	627.6
15°	560.5	559.0	559.7	562.6	564.8
17.5°	491.9	491.1	488.2	489.0	486.8
20°	421.1	419.6	419.6	416.7	417.5
22.5°	346.0	348.1	346.7	347.4	343.1
25°	271.6	278.8	281.0	275.2	270.8
27.5°	211.6	215.2	223.2	217.4	209.5
30°	158.2	165.4	174.1	166.8	161.1
32.5°	114.8	124.2	132.2	125.7	115.6
35°	70.8	83.8	95.3	83.1	72.9
37.5°	46.2	53.4	67.9	52.7	46.2
40°	31.1	33.9	46.2	34.7	29.6
42.5°	18.8	21.7	27.4	22.4	18.1
45°	8.7	13.0	17.3	13.0	8.7
47.5°	3.6	5.8	11.6	5.1	3.6
50°	2.2	2.9	5.8	2.9	2.2
52.5°	1.4	1.4	2.2	1.4	1.4
55°	0.7	0.7	0.7	0.7	0.7
57.5°	0.0	0.0	0.7	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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(END OF REPORT)