

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: P886460

Luminaire Tested: ML204LSFLD2W1E-TIR1D25NFL-TL2SDSL-400LM-2700K

Issue Date: 6/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P886460  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-90)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 6/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML204LSFLD2W1E-TIR1D25NFL-TL2SDSL-400LM-2700K  
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 25D TIR, METALLIC SILVER TRIM  
Light Source: (1) D2W LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 344.6 lumens  
Efficiency: N/A  
Efficacy: 55.6 lumens/watt  
Spacing Criteria (0/90/45): 0.47 / 0.47 / 0.54  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

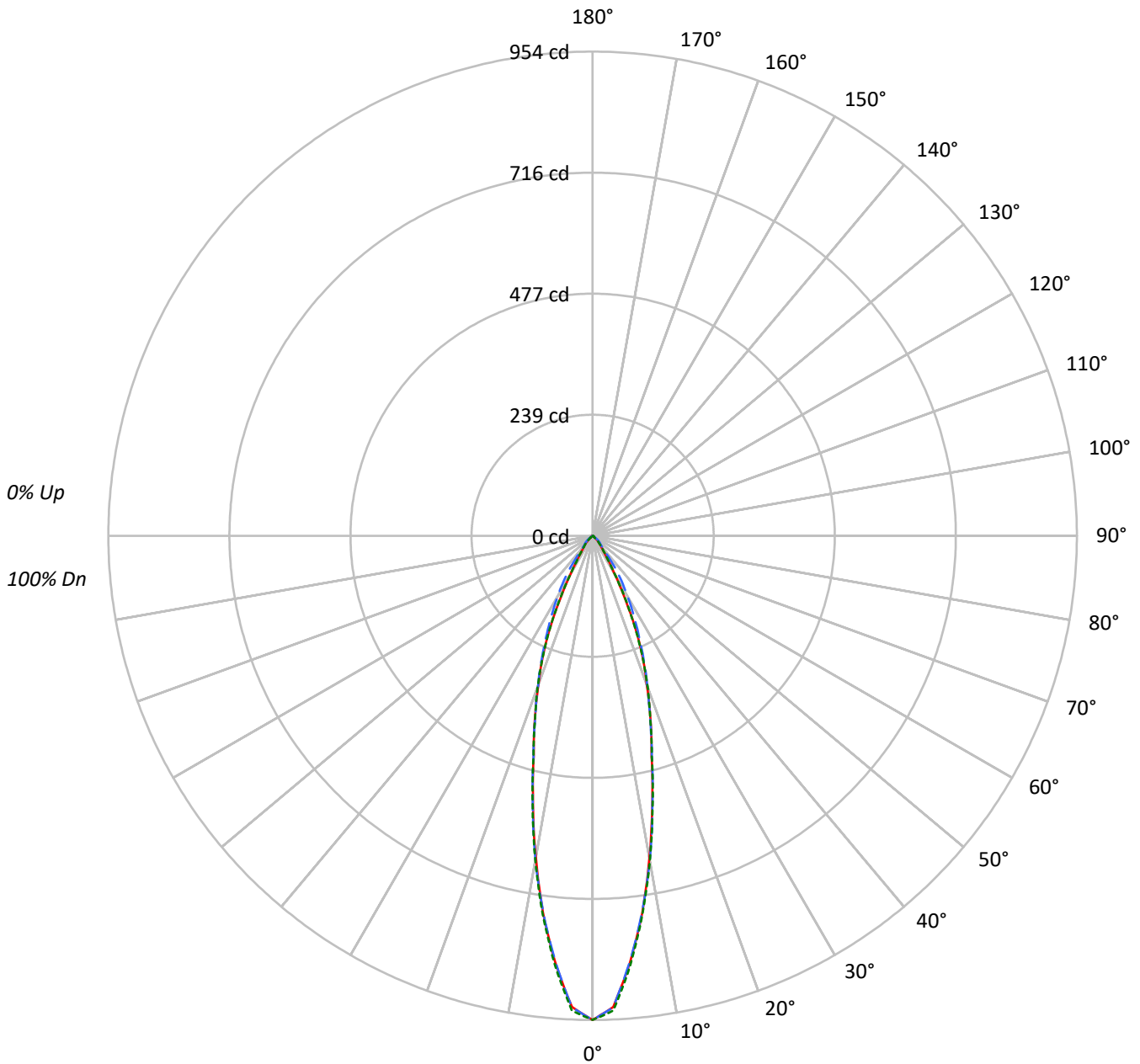
Input Watts (W): 6.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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					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	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95					95			
2	110	105	102	99	107	104	100	98	100	98	96	98	95	94	95	93	92	90					90			
3	105	100	95	92	103	98	94	91	96	92	90	93	91	88	91	89	87	86					86			
4	101	94	90	86	99	93	89	85	91	87	85	89	86	84	87	85	83	81					81			
5	97	90	85	81	95	89	84	81	87	83	80	85	82	79	84	81	79	77					77			
6	93	85	80	77	92	85	80	76	83	79	76	82	78	75	81	77	75	74					74			
7	89	82	76	73	88	81	76	73	80	75	72	79	75	72	78	74	72	70					70			
8	86	78	73	69	85	77	73	69	76	72	69	76	72	69	75	71	69	67					67			
9	83	75	70	66	82	74	70	66	73	69	66	73	69	66	72	68	66	65					65			
10	80	72	67	64	79	71	67	64	71	66	63	70	66	63	69	66	63	62					62			

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

	0°	45°	90°
0°	369636	369636	369636
5°	328338	327482	330594
10°	253439	255406	255721
15°	179884	180767	180767
20°	128618	129814	130721
25°	83673	91070	83032
30°	38749	61076	38749
35°	18118	36567	18449
40°	12039	14265	11685
45°	6357	11070	6740
50°	2170	8259	2170
55°	1486	1959	1486
60°	1085	1085	1085
65°	642	642	642
70°	793	793	793
75°	1048	0	1048
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 11070 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.4	21.6
10°-20°	126.2	36.6
20°-30°	93.2	27.0
30°-40°	35.3	10.2
40°-50°	11.7	3.4
50°-60°	2.7	0.8
60°-70°	0.8	0.2
70°-80°	0.4	0.1
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°	293.8	85.3
0°-40°	329.1	95.5
0°-60°	343.4	99.7
0°-90°	344.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	344.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	954	954	954	954	954	
5°	844	842	842	846	850	74
15°	448	448	451	450	451	126
25°	196	207	213	206	194	87
35°	38	48	77	48	39	27
45°	12	15	20	15	12	9
55°	2	2	3	2	2	2
65°	1	1	1	1	1	1
75°	1	1	0	1	1	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°	953.9	953.9	953.9	953.9	953.9
2.5°	929.3	929.3	930.0	932.2	936.5
5°	844.1	841.9	841.9	845.5	849.9
7.5°	748.8	748.1	747.3	747.3	752.4
10°	644.1	647.7	649.1	642.6	649.9
12.5°	542.3	536.5	544.4	540.1	545.9
15°	448.4	448.4	450.6	449.9	450.6
17.5°	378.4	379.1	375.5	376.9	376.2
20°	311.9	314.1	314.8	315.5	317.0
22.5°	256.3	259.2	261.4	259.9	254.2
25°	195.7	207.2	213.0	205.8	194.2
27.5°	131.4	153.1	173.3	155.2	135.8
30°	86.6	105.4	136.5	104.7	86.6
32.5°	56.3	69.3	106.9	68.6	55.6
35°	38.3	47.7	77.3	48.4	39.0
37.5°	29.6	33.9	46.2	33.9	29.6
40°	23.8	24.6	28.2	25.3	23.1
42.5°	18.8	19.5	23.1	19.5	18.1
45°	11.6	15.2	20.2	15.2	12.3
47.5°	5.1	8.7	16.6	8.7	5.1
50°	3.6	3.6	13.7	3.6	3.6
52.5°	2.9	2.9	8.7	2.9	2.9
55°	2.2	2.2	2.9	2.2	2.2
57.5°	2.2	1.4	1.4	1.4	2.2
60°	1.4	1.4	1.4	1.4	1.4
62.5°	1.4	0.7	0.7	0.7	1.4
65°	0.7	0.7	0.7	0.7	0.7
67.5°	0.7	0.7	0.7	0.7	0.7
70°	0.7	0.7	0.7	0.7	0.7
72.5°	0.7	0.7	0.0	0.7	0.7
75°	0.7	0.7	0.0	0.7	0.7
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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