

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: P886480

Luminaire Tested: ML204LSFLD2W1E-TIR1D40FL-TL2SDMW-400LM-3500K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886480
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-95)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFLD2W1E-TIR1D40FL-TL2SDMW-400LM-3500K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 40D TIR, MATTE WHITE TRIM
Light Source: (1) D2W LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 438.7 lumens
Efficiency: N/A
Efficacy: 70.8 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

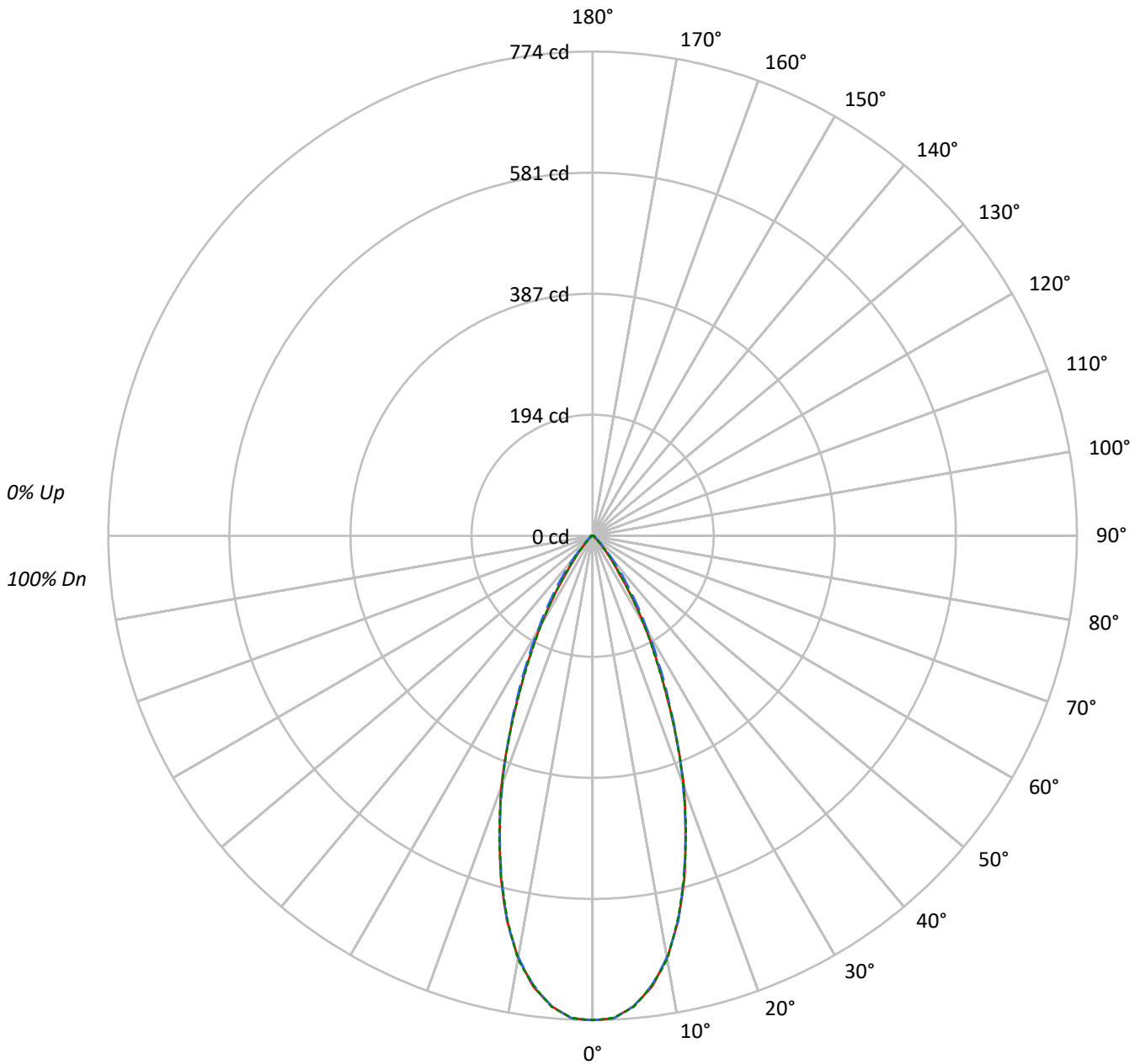
Input Watts (W): 6.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94								
2	109	104	100	97	107	102	99	96	99	96	94	96	94	92	94	92	90	88								
3	104	98	93	90	102	96	92	89	94	90	87	91	89	86	89	87	85	83								
4	99	92	87	83	97	91	86	83	89	85	82	87	84	81	85	82	80	78								
5	95	87	82	78	93	86	81	77	84	80	77	83	79	76	81	78	75	74								
6	91	83	77	73	89	82	77	73	80	76	72	79	75	72	78	74	71	70								
7	87	78	73	69	86	78	73	69	76	72	68	75	71	68	74	71	68	66								
8	83	75	69	65	82	74	69	65	73	68	65	72	68	65	71	67	64	63								
9	80	71	66	62	79	71	65	62	70	65	62	69	65	62	68	64	61	60								
10	77	68	63	59	76	67	62	59	67	62	59	66	62	59	65	61	58	57								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	75011	75011	75011
5°	73401	73401	73479
10°	67364	67295	67580
15°	56816	56385	56595
20°	43969	43443	43670
25°	29544	30464	29544
30°	18491	19699	18401
35°	8882	11779	9473
40°	4477	6209	4477
45°	1781	3069	1973
50°	980	1628	1085
55°	726	980	861
60°	698	833	698
65°	665	825	665
70°	623	821	623
75°	823	823	823
80°	781	781	781
85°	778	778	778

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 3069 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.8	15.9
10°-20°	155.0	35.3
20°-30°	129.3	29.5
30°-40°	58.2	13.3
40°-50°	15.3	3.5
50°-60°	5.0	1.1
60°-70°	3.3	0.8
70°-80°	2.1	0.5
80°-90°	0.7	0.2
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°	354.1	80.7
0°-40°	412.3	94.0
0°-60°	432.6	98.6
0°-90°	438.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	438.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	774	774	774	774	774	
5°	755	756	755	755	756	70
15°	566	564	562	563	564	155
25°	276	281	285	282	276	128
35°	75	87	100	89	80	52
45°	13	17	22	17	14	12
55°	4	5	6	5	5	4
65°	3	4	4	4	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°	774.3	774.3	774.3	774.3	774.3
2.5°	772.2	772.2	772.2	772.9	771.4
5°	754.8	755.6	754.8	754.8	755.6
7.5°	726.7	726.7	724.5	725.2	725.2
10°	684.8	683.4	684.1	683.4	687.0
12.5°	630.7	631.4	631.4	632.9	628.5
15°	566.5	564.3	562.2	562.9	564.3
17.5°	492.9	492.9	493.6	492.2	495.8
20°	426.5	423.6	421.4	418.6	423.6
22.5°	348.6	350.0	350.7	348.6	349.3
25°	276.4	281.4	285.0	282.2	276.4
27.5°	217.9	217.9	227.3	220.8	214.3
30°	165.3	169.6	176.1	169.6	164.5
32.5°	117.6	126.3	134.9	127.0	118.3
35°	75.1	87.3	99.6	88.8	80.1
37.5°	51.2	58.5	72.2	59.2	53.4
40°	35.4	39.0	49.1	39.7	35.4
42.5°	23.1	26.7	33.2	26.7	23.1
45°	13.0	17.3	22.4	17.3	14.4
47.5°	7.9	10.1	15.9	10.8	9.4
50°	6.5	7.9	10.8	7.2	7.2
52.5°	5.8	6.5	7.2	6.5	5.8
55°	4.3	5.1	5.8	5.1	5.1
57.5°	4.3	4.3	5.1	4.3	4.3
60°	3.6	4.3	4.3	4.3	3.6
62.5°	3.6	3.6	3.6	3.6	3.6
65°	2.9	3.6	3.6	3.6	2.9
67.5°	2.9	2.9	2.9	2.9	2.9
70°	2.2	2.9	2.9	2.9	2.2
72.5°	2.2	2.2	2.2	2.2	2.2
75°	2.2	2.2	2.2	2.2	2.2
77.5°	1.4	1.4	1.4	1.4	1.4
80°	1.4	1.4	1.4	1.4	1.4
82.5°	0.7	0.7	0.7	0.7	0.7
85°	0.7	0.7	0.7	0.7	0.7
87.5°	0.0	0.7	0.0	0.7	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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