

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: P886478

Luminaire Tested: ML204LSFLD2W1E-TIR1D40FL-TL2SDMBB-400LM-3500K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886478
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-100)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFLD2W1E-TIR1D40FL-TL2SDMBB-400LM-3500K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 40D TIR, MATTE BLACK BAFFLED TRIM
Light Source: (1) D2W LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 422.8 lumens
Efficiency: N/A
Efficacy: 68.2 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.68
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

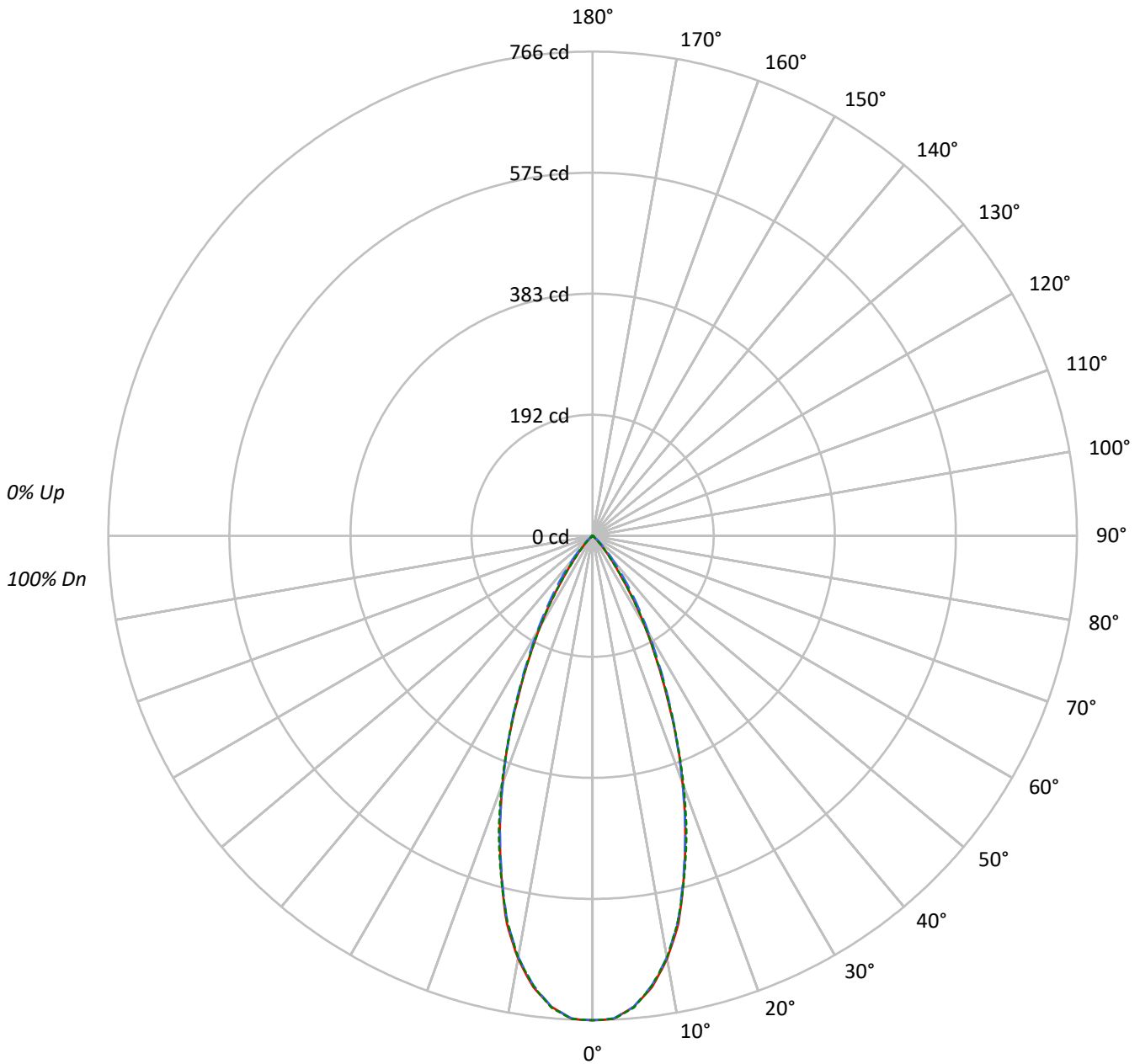
Input Watts (W): 6.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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	109	107	112	109	107	106	105	104	102	102	101	99	98	97	96	95					95			
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	90					90			
3	105	99	94	91	103	97	93	90	95	92	89	93	90	87	90	88	86	85					85			
4	100	93	88	85	98	92	88	84	90	86	83	88	85	82	86	84	81	80					80			
5	96	88	83	79	94	87	83	79	86	82	78	84	81	78	83	80	77	76					76			
6	92	84	79	75	90	83	78	74	82	77	74	80	76	73	79	76	73	72					72			
7	88	80	74	71	87	79	74	70	78	73	70	77	73	70	76	72	69	68					68			
8	84	76	71	67	83	75	70	67	74	70	66	73	69	66	72	69	66	65					65			
9	81	72	67	64	80	72	67	63	71	66	63	70	66	63	69	66	63	62					62			
10	78	69	64	61	77	69	64	60	68	63	60	67	63	60	67	63	60	59					59			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	297018	297018	297018
5°	290840	290840	291385
10°	267210	266345	266620
15°	223732	222849	224294
20°	171586	171009	173360
25°	117365	120443	118904
30°	73694	78527	74365
35°	37229	46832	37607
40°	16794	24837	16440
45°	5918	10686	5535
50°	1326	4340	1748
55°	473	946	473
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: 10686 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.1	16.4
10°-20°	153.3	36.3
20°-30°	128.4	30.4
30°-40°	57.9	13.7
40°-50°	12.9	3.0
50°-60°	1.1	0.3
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°	350.9	83.0
0°-40°	408.8	96.7
0°-60°	422.8	100.0
0°-90°	422.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	422.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	766	766	766	766	766	
5°	748	748	748	747	749	69
15°	558	557	556	560	559	153
25°	274	280	282	280	278	127
35°	79	90	99	88	80	53
45°	11	14	20	14	10	10
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°	766.5	766.5	766.5	766.5	766.5
2.5°	765.0	765.0	764.3	764.3	765.0
5°	747.7	747.7	747.7	747.0	749.1
7.5°	720.2	719.5	717.4	717.4	718.1
10°	679.1	677.6	676.9	679.1	677.6
12.5°	627.8	625.6	624.2	624.9	624.2
15°	557.7	557.0	555.5	559.9	559.1
17.5°	487.6	485.5	487.6	486.9	493.4
20°	416.1	418.3	414.7	417.6	420.4
22.5°	345.3	348.2	345.3	346.0	346.8
25°	274.5	280.3	281.7	279.6	278.1
27.5°	215.3	220.3	223.2	220.3	216.0
30°	164.7	166.9	175.5	169.0	166.2
32.5°	119.9	127.9	134.4	127.9	119.2
35°	78.7	89.6	99.0	88.1	79.5
37.5°	50.6	57.1	70.8	57.8	49.8
40°	33.2	36.1	49.1	36.8	32.5
42.5°	20.9	24.6	31.8	23.8	20.2
45°	10.8	14.4	19.5	13.7	10.1
47.5°	3.6	6.5	12.3	7.2	4.3
50°	2.2	2.9	7.2	2.9	2.9
52.5°	1.4	1.4	2.9	1.4	1.4
55°	0.7	0.7	1.4	0.7	0.7
57.5°	0.0	0.0	0.7	0.7	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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