

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: P886034

Luminaire Tested: ML104LSFLD2W1E-TIR1D40FL-TL1SDSLB-200LM-3500K

Issue Date: 6/19/2024

Test Information

Test Method: LM-79-2019
Report Number: P886034
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-146)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/19/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML104LSFLD2W1E-TIR1D40FL-TL1SDSLB-200LM-3500K
Description: 1IN SQUARE ML FLEX, SELECTABLE CCT, WITH 40D TIR, METALLIC SILVER BAFFLED TRIM
Light Source: (1) D2W LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 229.8 lumens
Efficiency: N/A
Efficacy: 71.8 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.69 / 0.68
Luminous Opening: Rectangular (W 0.08' x L: 0.08' x H: 0')
CIE Type: Direct

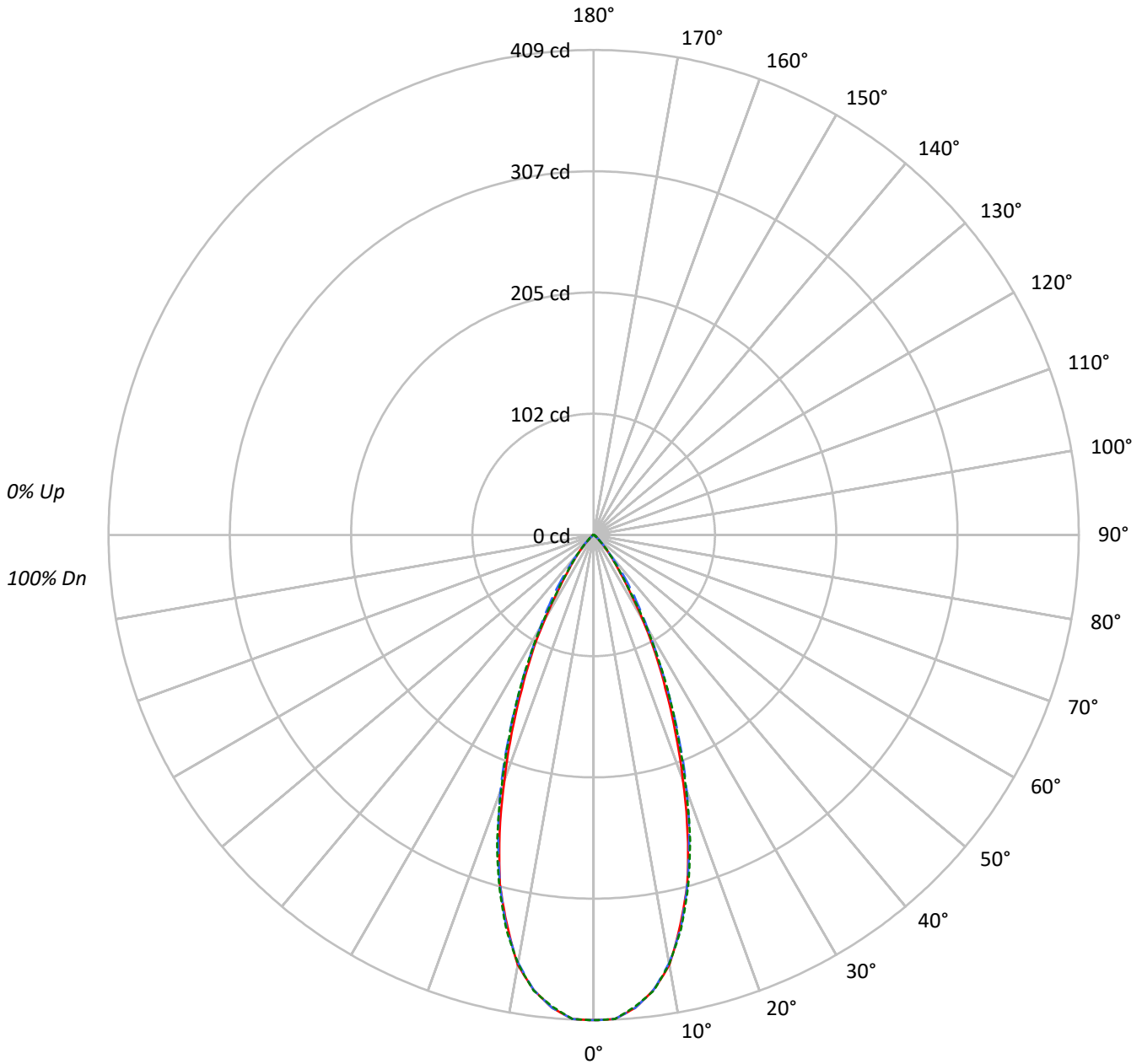
Input Watts (W): 3.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	634267	634267	634267
5°	622997	622997	621286
10°	579520	576844	577789
15°	489432	489432	492962
20°	363053	378724	375095
25°	244737	258932	259788
30°	147838	160724	157861
35°	73418	96503	76635
40°	40468	43705	41480
45°	17098	21921	18194
50°	10610	9404	10610
55°	7567	4594	7567
60°	5270	1860	5270
65°	4034	2201	4034
70°	2719	0	2719
75°	0	0	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 21921 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.2	16.2
10°-20°	83.6	36.4
20°-30°	68.8	29.9
30°-40°	29.6	12.9
40°-50°	7.8	3.4
50°-60°	2.1	0.9
60°-70°	0.8	0.3
70°-80°	0.1	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°	189.5	82.5
0°-40°	219.1	95.3
0°-60°	229.0	99.6
0°-90°	229.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	229.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	409	409	409	409	409	
5°	400	400	400	399	399	37
15°	305	305	305	306	307	83
25°	143	146	151	152	152	66
35°	39	43	51	44	40	27
45°	8	9	10	9	8	7
55°	3	2	2	2	3	3
65°	1	1	1	1	1	1
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°	409.2	409.2	409.2	409.2	409.2
2.5°	408.7	409.2	408.7	408.7	408.7
5°	400.4	399.8	400.4	399.3	399.3
7.5°	387.1	386.5	387.1	387.1	387.6
10°	368.2	365.4	366.5	368.2	367.1
12.5°	337.2	339.4	339.4	340.5	340.5
15°	305.0	305.0	305.0	306.1	307.2
17.5°	263.4	264.5	267.8	268.9	270.6
20°	220.1	224.0	229.6	228.5	227.4
22.5°	180.2	182.4	189.6	188.5	186.9
25°	143.1	146.4	151.4	151.9	151.9
27.5°	112.6	115.9	117.6	120.3	117.6
30°	82.6	88.7	89.8	92.1	88.2
32.5°	56.0	61.6	69.3	65.4	58.2
35°	38.8	42.7	51.0	44.4	40.5
37.5°	27.7	29.4	34.4	30.5	28.8
40°	20.0	21.1	21.6	21.6	20.5
42.5°	13.3	13.9	14.4	14.4	13.9
45°	7.8	8.9	10.0	8.9	8.3
47.5°	5.5	5.5	6.1	5.5	5.5
50°	4.4	3.9	3.9	3.9	4.4
52.5°	3.3	2.8	2.2	2.8	3.3
55°	2.8	2.2	1.7	2.2	2.8
57.5°	2.2	1.7	1.1	1.7	2.2
60°	1.7	1.1	0.6	1.1	1.7
62.5°	1.1	1.1	0.6	1.1	1.1
65°	1.1	0.6	0.6	0.6	1.1
67.5°	0.6	0.6	0.6	0.6	0.6
70°	0.6	0.6	0.0	0.6	0.6
72.5°	0.6	0.0	0.0	0.0	0.6
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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