

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: P886008

Luminaire Tested: ML104LSFLD2W1E-TIR1D25NFL-TL1SDSL-200LM-2700K

Issue Date: 6/19/2024

Test Information

Test Method: LM-79-2019
Report Number: P886008
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-137)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/19/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML104LSFLD2W1E-TIR1D25NFL-TL1SDSL-200LM-2700K
Description: 1IN 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: 171.0 lumens
Efficiency: N/A
Efficacy: 53.4 lumens/watt
Spacing Criteria (0/90/45): 0.46 / 0.47 / 0.55
Luminous Opening: Rectangular (W 0.08' x L: 0.08' x H: 0')
CIE Type: Direct

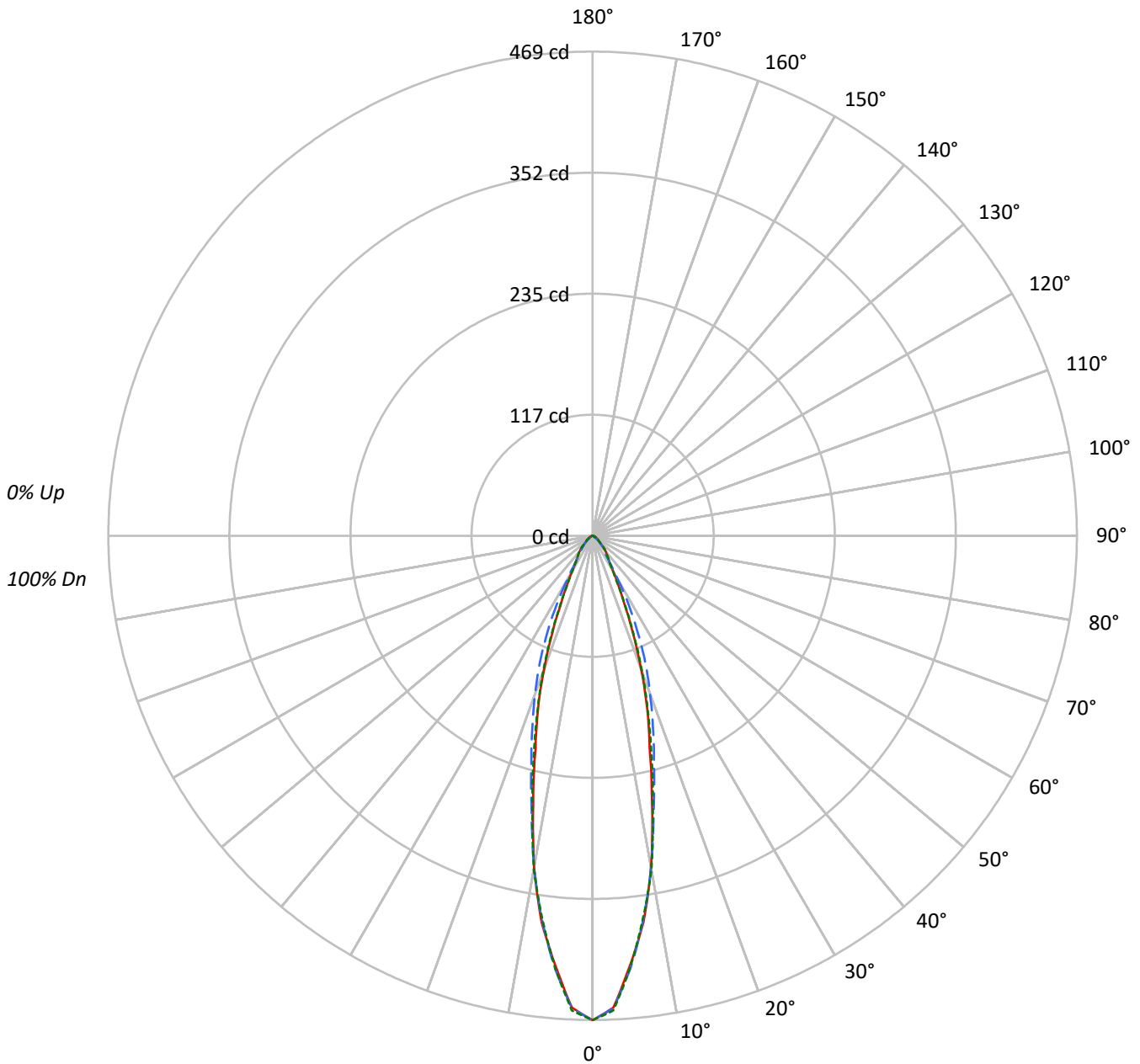
Input Watts (W): 3.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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									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	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	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	99	94	91	102	97	93	90	95	91	88	92	89	87	90	88	86	84																			
4	100	93	88	84	98	92	88	84	90	86	83	88	85	82	86	83	81	80																			
5	96	88	83	79	94	87	83	79	86	82	78	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	80	75	71	78	74	71	77	73	70	76	73	70	69																			
8	85	77	71	68	84	76	71	68	75	71	67	74	70	67	73	70	67	66																			
9	82	73	68	65	81	73	68	65	72	68	65	71	67	64	71	67	64	63																			
10	79	71	65	62	78	70	65	62	69	65	62	69	65	62	68	64	62	60																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	727423	727423	727423
5°	648981	654116	652404
10°	513415	513415	515933
15°	342763	367636	353354
20°	225981	268043	230599
25°	124335	177353	127072
30°	70518	88416	68550
35°	48252	42953	49387
40°	39254	32577	40468
45°	26743	24332	26743
50°	18809	16156	18809
55°	14863	5945	14863
60°	12090	5270	12090
65°	8069	4034	8069
70°	4985	2719	4985
75°	3593	3593	3593
80°	5356	0	5356
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 26743 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.1	21.7
10°-20°	62.3	36.4
20°-30°	40.1	23.4
30°-40°	16.8	9.8
40°-50°	8.8	5.2
50°-60°	3.5	2.0
60°-70°	1.6	0.9
70°-80°	0.7	0.4
80°-90°	0.1	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°	139.5	81.6
0°-40°	156.3	91.4
0°-60°	168.6	98.6
0°-90°	171.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	171.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	469	469	469	469	469	
5°	417	418	420	418	419	37
15°	214	222	229	225	220	60
25°	73	80	104	83	74	35
35°	26	27	23	26	26	17
45°	12	11	11	12	12	10
55°	6	3	2	3	6	5
65°	2	2	1	2	2	2
75°	1	1	1	1	1	1
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°	469.3	469.3	469.3	469.3	469.3
2.5°	457.6	458.7	458.2	458.7	460.4
5°	417.1	417.7	420.4	418.2	419.3
7.5°	377.7	375.5	375.5	376.1	373.9
10°	326.2	323.9	326.2	325.0	327.8
12.5°	265.7	269.0	272.9	271.8	269.0
15°	213.6	222.4	229.1	224.6	220.2
17.5°	175.8	181.4	194.1	184.2	177.5
20°	137.0	145.3	162.5	148.1	139.8
22.5°	102.1	112.6	133.7	114.3	104.3
25°	72.7	80.4	103.7	82.6	74.3
27.5°	53.2	58.2	76.0	59.4	51.6
30°	39.4	44.4	49.4	43.3	38.3
32.5°	30.5	34.4	31.1	33.3	31.1
35°	25.5	26.6	22.7	26.1	26.1
37.5°	22.2	20.5	18.9	20.5	22.7
40°	19.4	16.6	16.1	17.2	20.0
42.5°	16.1	14.4	13.3	14.4	16.6
45°	12.2	11.1	11.1	11.6	12.2
47.5°	8.9	7.2	9.4	7.8	9.4
50°	7.8	5.0	6.7	5.0	7.8
52.5°	6.7	4.4	3.9	4.4	6.7
55°	5.5	3.3	2.2	3.3	5.5
57.5°	4.4	2.8	1.7	2.8	4.4
60°	3.9	2.2	1.7	2.2	3.9
62.5°	2.8	1.7	1.1	2.2	2.8
65°	2.2	1.7	1.1	1.7	2.2
67.5°	1.7	1.1	0.6	1.1	1.7
70°	1.1	1.1	0.6	1.1	1.1
72.5°	1.1	0.6	0.6	0.6	1.1
75°	0.6	0.6	0.6	0.6	0.6
77.5°	0.6	0.6	0.6	0.6	0.6
80°	0.6	0.6	0.0	0.6	0.6
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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