

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: P886056

Luminaire Tested: ML104LSFLD2W1E-TIR1D55WFL-TL1SDSL-200LM-3500K

Issue Date: 6/19/2024

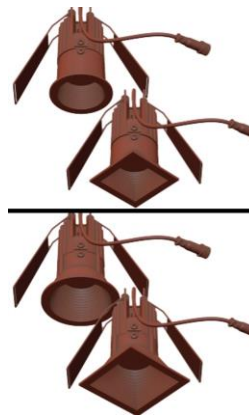
Test Information

Test Method: LM-79-2019
Report Number: P886056
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-149)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/19/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML104LSFLD2W1E-TIR1D55WFL-TL1SDSL-200LM-3500K
Description: 1IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, METALLIC SILVER TRIM
Light Source: (1) D2W LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 220.2 lumens
Efficiency: N/A
Efficacy: 68.8 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.83 / 0.8
Luminous Opening: Rectangular (W 0.08' x L: 0.08' x H: 0')
CIE Type: Direct

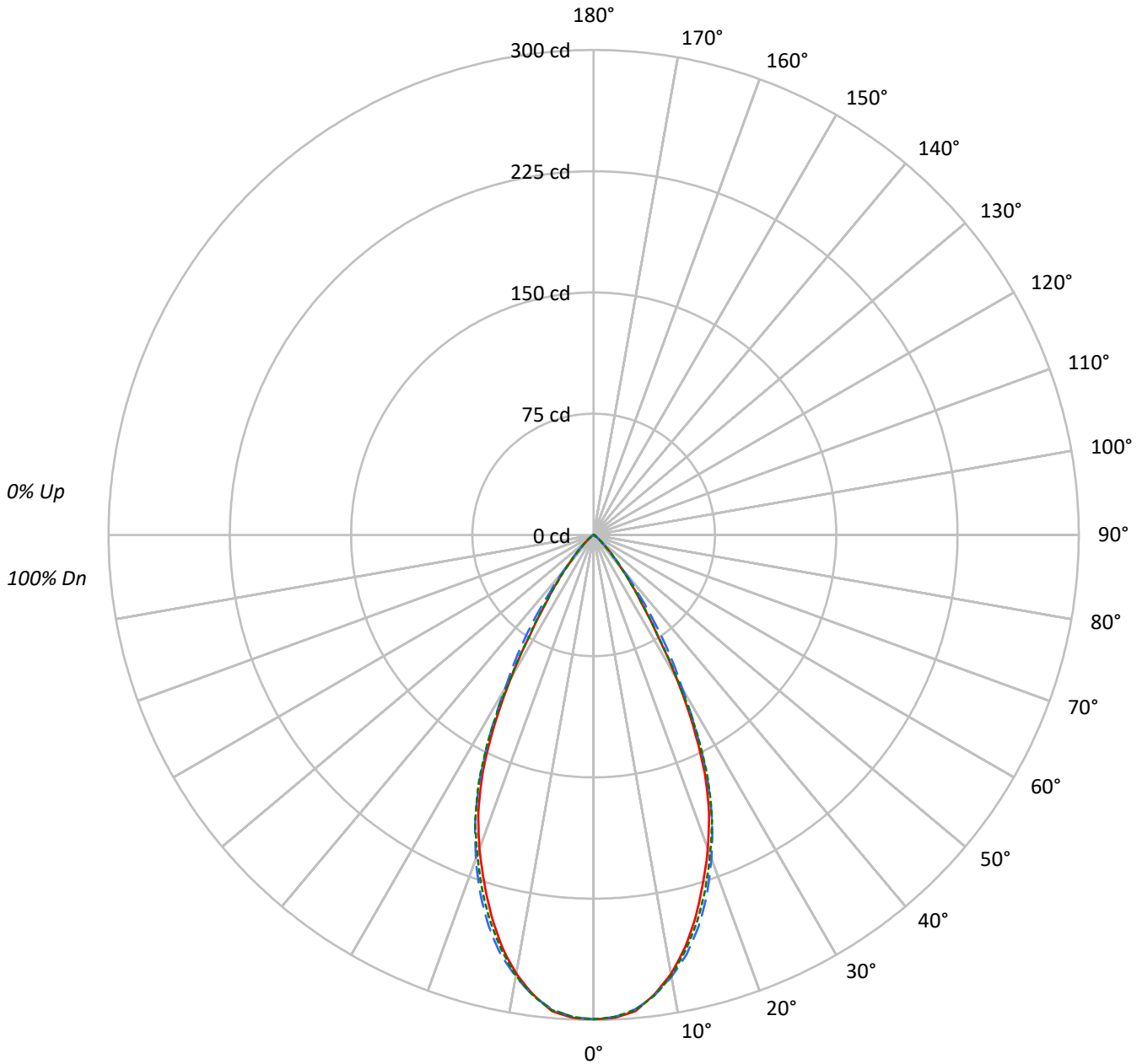
Input Watts (W): 3.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94								
2	108	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88								
3	103	97	92	89	101	96	91	88	93	90	87	91	88	85	89	86	84	82								
4	98	91	86	82	97	90	85	81	88	84	81	86	82	80	84	81	79	77								
5	94	86	80	76	92	85	80	76	83	79	75	82	78	75	80	77	74	72								
6	89	81	75	71	88	80	75	71	79	74	70	77	73	70	76	72	69	68								
7	85	76	71	67	84	76	70	67	75	70	66	73	69	66	72	68	65	64								
8	81	72	67	63	80	72	66	63	71	66	62	70	65	62	69	65	62	61								
9	78	69	63	59	77	68	63	59	67	62	59	66	62	59	65	61	58	57								
10	74	65	60	56	73	65	59	56	64	59	56	63	59	56	62	58	55	54								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	464385	464385	464385
5°	460091	458379	459157
10°	433932	436608	435663
15°	391706	402297	397001
20°	340455	351342	346723
25°	277916	284586	286467
30°	183634	195626	186677
35°	97639	121670	99720
40°	52811	57262	51597
45°	25428	25428	24332
50°	12057	9404	12057
55°	5945	4594	5945
60°	3410	1860	3410
65°	2201	2201	2201
70°	2719	2719	2719
75°	3593	0	3593
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 25428 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.6	12.5
10°-20°	68.9	31.3
20°-30°	74.1	33.7
30°-40°	37.0	16.8
40°-50°	9.7	4.4
50°-60°	1.9	0.9
60°-70°	0.7	0.3
70°-80°	0.2	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°	170.6	77.5
0°-40°	207.6	94.3
0°-60°	219.3	99.6
0°-90°	220.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	220.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	300	300	300	300	300	
5°	296	294	295	295	295	28
15°	244	246	251	249	247	68
25°	162	165	166	168	168	72
35°	52	56	64	56	53	35
45°	12	11	12	11	11	10
55°	2	2	2	2	2	2
65°	1	1	1	1	1	1
75°	1	0	0	0	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°	299.6	299.6	299.6	299.6	299.6
2.5°	299.0	298.4	298.4	299.0	298.4
5°	295.7	294.0	294.6	295.1	295.1
7.5°	286.8	286.8	287.4	287.9	287.4
10°	275.7	276.3	277.4	277.9	276.8
12.5°	261.3	262.4	265.7	264.6	262.9
15°	244.1	246.3	250.7	249.1	247.4
17.5°	225.2	228.6	233.0	231.9	229.7
20°	206.4	208.6	213.0	213.0	210.2
22.5°	186.4	188.6	191.4	192.5	191.4
25°	162.5	164.8	166.4	168.1	167.5
27.5°	133.1	137.0	138.1	139.8	138.7
30°	102.6	106.0	109.3	108.7	104.3
32.5°	73.2	77.1	87.1	79.9	73.8
35°	51.6	55.5	64.3	55.5	52.7
37.5°	37.7	37.2	43.8	37.7	37.2
40°	26.1	26.6	28.3	26.1	25.5
42.5°	17.8	17.2	18.3	17.8	17.2
45°	11.6	11.1	11.6	11.1	11.1
47.5°	7.2	6.7	6.7	6.7	7.2
50°	5.0	4.4	3.9	4.4	5.0
52.5°	3.3	2.8	2.8	2.8	3.3
55°	2.2	1.7	1.7	2.2	2.2
57.5°	1.7	1.1	1.1	1.1	1.7
60°	1.1	1.1	0.6	1.1	1.1
62.5°	1.1	0.6	0.6	0.6	1.1
65°	0.6	0.6	0.6	0.6	0.6
67.5°	0.6	0.6	0.6	0.6	0.6
70°	0.6	0.6	0.6	0.6	0.6
72.5°	0.6	0.6	0.0	0.6	0.6
75°	0.6	0.0	0.0	0.0	0.6
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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