

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: P886011

Luminaire Tested: ML104LSFLD2W1E-TIR1D25NFL-TL1SDSLB-200LM-3000K

Issue Date: 6/19/2024

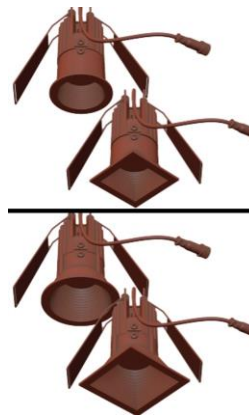
Test Information

Test Method: LM-79-2019
Report Number: P886011
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-140)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/19/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML104LSFLD2W1E-TIR1D25NFL-TL1SDSLB-200LM-3000K
Description: 1IN SQUARE ML FLEX, SELECTABLE CCT, WITH 25D TIR, METALLIC SILVER BAFFLED TRIM
Light Source: (1) D2W LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 187.2 lumens
Efficiency: N/A
Efficacy: 58.5 lumens/watt
Spacing Criteria (0/90/45): 0.47 / 0.47 / 0.56
Luminous Opening: Rectangular (W 0.08' x L: 0.08' x H: 0')
CIE Type: Direct

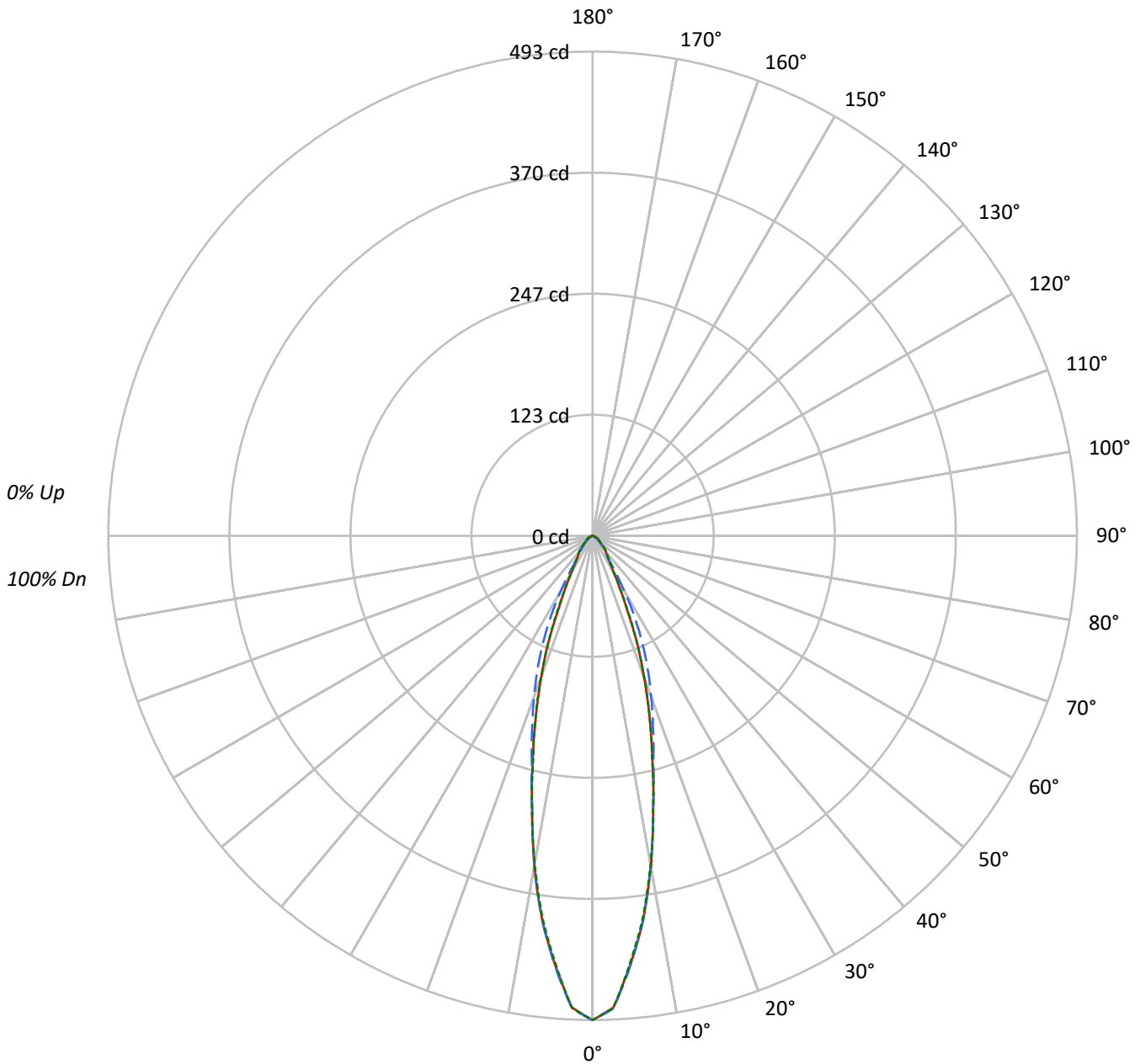
Input Watts (W): 3.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					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	111	109	107	112	109	107	105	105	104	102	101	100	99	98	97	96	94					94			
2	109	104	101	98	107	103	99	96	99	97	94	97	94	92	94	92	90	89					89			
3	104	98	94	90	102	97	93	89	94	91	88	92	89	87	90	87	85	84					84			
4	100	93	88	84	98	92	87	83	89	86	82	88	84	81	86	83	81	79					79			
5	95	88	83	79	94	87	82	78	85	81	78	84	80	77	82	79	76	75					75			
6	91	83	78	74	90	83	78	74	81	77	73	80	76	73	79	75	72	71					71			
7	88	79	74	70	86	79	74	70	78	73	70	76	72	69	75	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	73	67	64	80	72	67	64	71	67	64	70	66	63	70	66	63	62					62			
10	78	70	64	61	77	69	64	61	68	64	61	68	64	61	67	63	61	59					59			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	764468	764468	764468
5°	682434	684301	679633
10°	537811	535922	534978
15°	377585	383362	374696
20°	251878	287177	252867
25°	140241	203349	145372
30°	75530	113832	77678
35°	50522	49387	52793
40°	40873	34803	43301
45°	31346	27401	33977
50°	22908	20015	22908
55°	20808	6486	20808
60°	18290	5580	18290
65°	13204	4401	13204
70°	8157	2719	8157
75°	3593	3593	3593
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 33977 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.9	20.8
10°-20°	66.2	35.4
20°-30°	45.5	24.3
30°-40°	18.9	10.1
40°-50°	10.2	5.5
50°-60°	4.7	2.5
60°-70°	2.1	1.1
70°-80°	0.6	0.3
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°	150.7	80.5
0°-40°	169.6	90.6
0°-60°	184.5	98.6
0°-90°	187.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	187.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	493	493	493	493	493	
5°	439	437	440	438	437	39
15°	235	236	239	238	234	65
25°	82	95	119	96	85	40
35°	27	29	26	29	28	18
45°	14	13	12	14	16	11
55°	8	5	2	5	8	7
65°	4	2	1	2	4	4
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°	493.2	493.2	493.2	493.2	493.2
2.5°	480.8	481.4	482.0	483.1	481.4
5°	438.6	437.4	439.8	438.0	436.8
7.5°	394.6	394.6	394.6	393.4	392.2
10°	341.7	341.7	340.5	341.1	339.9
12.5°	284.7	282.9	284.7	283.5	285.2
15°	235.3	236.5	238.9	237.7	233.5
17.5°	191.9	196.7	204.4	197.3	193.1
20°	152.7	161.6	174.1	161.6	153.3
22.5°	117.7	127.8	146.2	128.4	117.7
25°	82.0	95.1	118.9	96.3	85.0
27.5°	59.4	67.2	90.9	68.3	60.0
30°	42.2	48.7	63.6	49.9	43.4
32.5°	32.7	38.0	40.4	37.4	33.3
35°	26.7	29.1	26.1	29.1	27.9
37.5°	23.2	22.6	20.8	23.2	24.4
40°	20.2	18.4	17.2	19.0	21.4
42.5°	17.8	16.0	14.9	16.0	18.4
45°	14.3	13.1	12.5	13.7	15.5
47.5°	10.7	9.5	10.7	10.1	10.7
50°	9.5	6.5	8.3	6.5	9.5
52.5°	8.3	5.3	5.3	5.3	8.3
55°	7.7	4.8	2.4	4.8	7.7
57.5°	6.5	4.2	2.4	4.2	6.5
60°	5.9	3.6	1.8	3.6	5.9
62.5°	4.8	2.4	1.2	2.4	4.8
65°	3.6	1.8	1.2	1.8	3.6
67.5°	2.4	1.2	0.6	1.2	2.4
70°	1.8	1.2	0.6	1.2	1.8
72.5°	1.2	0.6	0.6	0.6	1.2
75°	0.6	0.6	0.6	0.6	0.6
77.5°	0.6	0.6	0.0	0.0	0.6
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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