

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: P886007

Luminaire Tested: ML104LSFLD2W1E-TIR1D25NFL-TL1SDMWB-200LM-3000K

Issue Date: 6/19/2024

Test Information

Test Method: LM-79-2019
Report Number: P886007
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-139)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/19/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML104LSFLD2W1E-TIR1D25NFL-TL1SDMWB-200LM-3000K
Description: 1IN SQUARE ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE WHITE BAFFLED TRIM
Light Source: (1) D2W LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

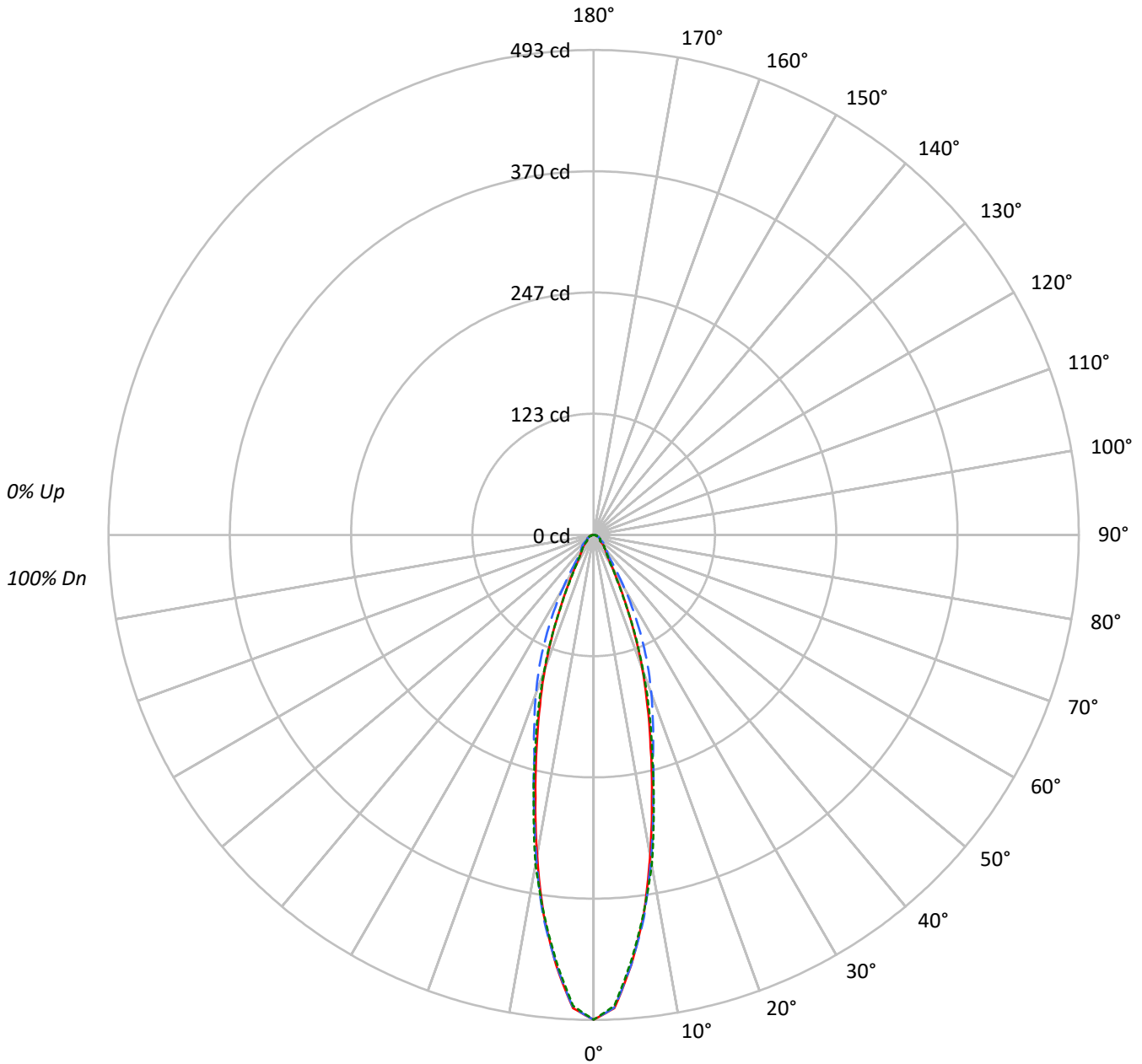
Lumens per Lamp: N/A
Luminaire Lumens: 191.8 lumens
Efficiency: N/A
Efficacy: 60.0 lumens/watt
Spacing Criteria (0/90/45): 0.46 / 0.47 / 0.56
Luminous Opening: Rectangular (W 0.08' x L: 0.08' x H: 0')
CIE Type: Direct

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										
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	0					
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100								
1	113	110	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93								
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86								
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81								
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76								
5	93	85	80	75	92	84	79	75	83	78	74	81	77	74	79	76	73	72								
6	89	81	75	71	88	80	75	71	79	74	70	77	73	70	76	72	69	68								
7	86	77	71	67	84	76	71	67	75	70	67	74	69	66	73	69	66	65								
8	82	73	68	64	81	73	67	64	72	67	63	71	66	63	70	66	63	62								
9	79	70	65	61	78	70	64	61	69	64	61	68	63	60	67	63	60	59								
10	76	67	62	58	75	67	62	58	66	61	58	65	61	58	64	61	58	56								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	763848	763848	763848
5°	682590	681656	676988
10°	520183	527581	535135
15°	358649	373894	368117
20°	238187	282393	243135
25°	130150	197192	128098
30°	64970	111684	63896
35°	42764	50522	42764
40°	34803	40873	34803
45°	27401	36388	28716
50°	21461	31589	21461
55°	22430	20808	22430
60°	22010	22010	22010
65°	21639	21639	21639
70°	19034	19034	19034
75°	17966	17966	17966
80°	16067	16067	16067
85°	10671	10671	10671

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 36388 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.6	20.1
10°-20°	64.6	33.7
20°-30°	43.1	22.4
30°-40°	17.5	9.1
40°-50°	11.1	5.8
50°-60°	7.4	3.9
60°-70°	5.7	3.0
70°-80°	3.2	1.6
80°-90°	0.7	0.4
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°	146.2	76.2
0°-40°	163.8	85.4
0°-60°	182.2	95.0
0°-90°	191.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	191.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	493	493	493	493	493	
5°	439	438	438	437	435	39
15°	224	229	233	234	229	62
25°	76	89	115	91	75	36
35°	23	27	27	26	23	15
45°	12	14	17	15	13	10
55°	8	8	8	8	8	7
65°	6	6	6	6	6	6
75°	3	3	3	3	3	3
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	492.8	492.8	492.8	492.8	492.8
2.5°	481.5	482.1	480.9	480.3	479.1
5°	438.7	437.5	438.1	436.9	435.1
7.5°	389.3	388.1	391.7	389.3	388.1
10°	330.5	331.7	335.2	334.7	340.0
12.5°	273.4	277.0	280.0	280.6	281.7
15°	223.5	228.8	233.0	233.6	229.4
17.5°	181.3	190.8	200.3	193.8	187.2
20°	144.4	155.1	171.2	157.5	147.4
22.5°	108.2	120.7	143.3	124.2	110.0
25°	76.1	89.2	115.3	90.9	74.9
27.5°	52.3	61.2	88.0	63.0	50.5
30°	36.3	45.2	62.4	45.2	35.7
32.5°	26.7	35.1	40.4	33.9	27.3
35°	22.6	26.7	26.7	26.2	22.6
37.5°	19.6	21.4	22.6	21.4	19.6
40°	17.2	18.4	20.2	18.4	17.2
42.5°	15.5	16.6	18.4	16.6	15.5
45°	12.5	14.3	16.6	14.9	13.1
47.5°	8.9	11.3	15.5	11.9	8.9
50°	8.9	8.9	13.1	8.9	8.9
52.5°	8.3	8.3	10.1	8.3	8.3
55°	8.3	8.3	7.7	8.3	8.3
57.5°	7.7	7.7	7.7	7.7	7.7
60°	7.1	7.1	7.1	7.1	7.1
62.5°	6.5	6.5	6.5	6.5	6.5
65°	5.9	5.9	5.9	5.9	5.9
67.5°	4.8	5.3	4.8	5.3	5.3
70°	4.2	4.2	4.2	4.2	4.2
72.5°	3.6	3.6	3.6	3.6	3.6
75°	3.0	3.0	3.0	3.0	3.0
77.5°	2.4	2.4	2.4	2.4	2.4
80°	1.8	1.8	1.8	1.8	1.8
82.5°	1.2	1.2	1.2	1.2	1.2
85°	0.6	0.6	0.6	0.6	0.6
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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