

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: P886006

Luminaire Tested: ML104LSFLD2W1E-TIR1D25NFL-TL1SDMWB-200LM-2700K

Issue Date: 6/19/2024

Test Information

Test Method: LM-79-2019
Report Number: P886006
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-2700K
Description: 1IN SQUARE ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE WHITE BAFFLED TRIM
Light Source: (1) D2W LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

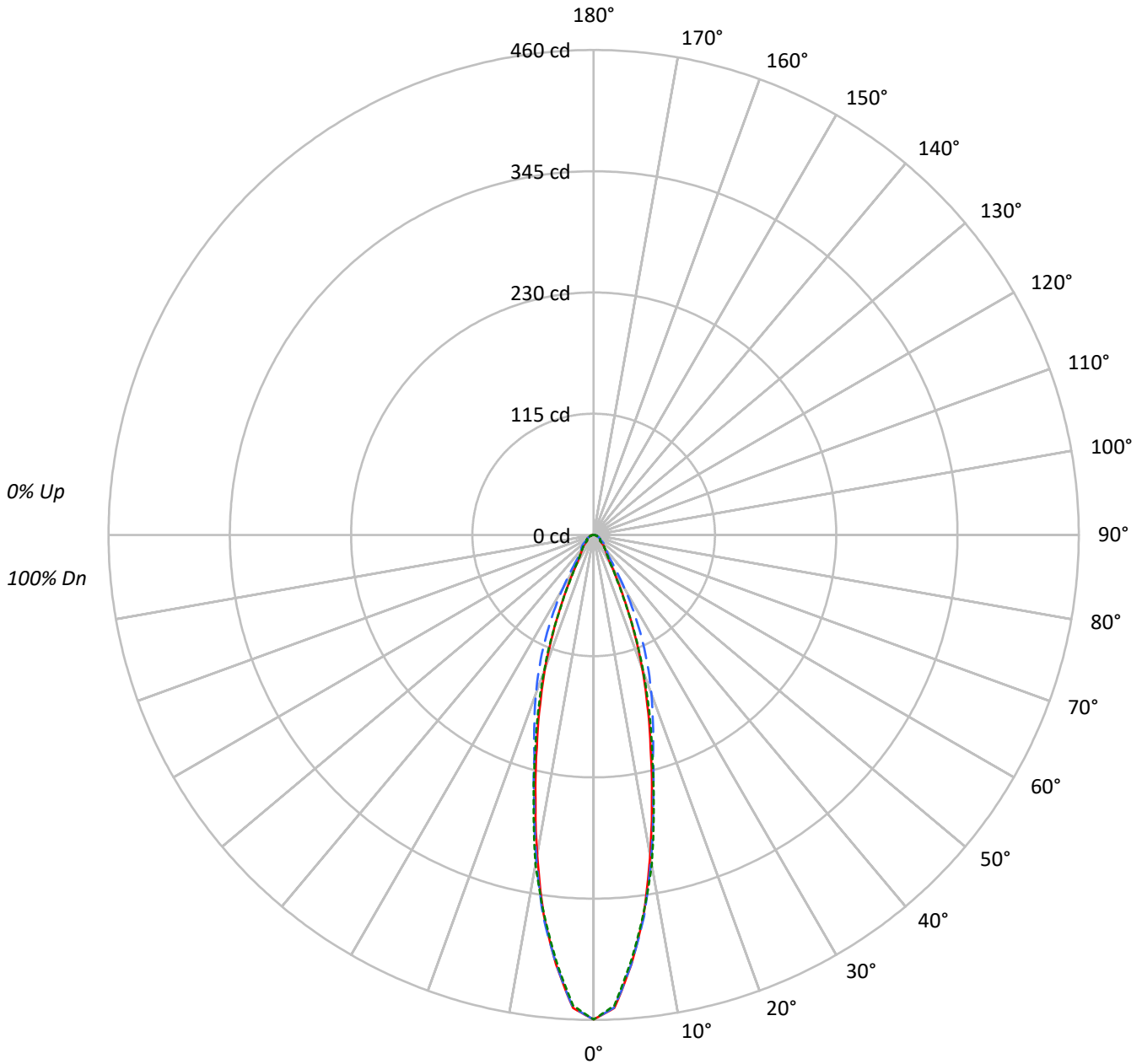
Lumens per Lamp: N/A
Luminaire Lumens: 179.0 lumens
Efficiency: N/A
Efficacy: 55.9 lumens/watt
Spacing Criteria (0/90/45): 0.46 / 0.47 / 0.56
Luminous Opening: Rectangular (W 0.08' x L: 0.08' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	712387	712387	712387
5°	636534	635756	631399
10°	485085	492167	499092
15°	334579	348700	343405
20°	222187	263424	226805
25°	121428	184023	119547
30°	60495	104167	59600
35°	39926	47116	39926
40°	32577	38040	32577
45°	25428	33977	26743
50°	20015	29419	20015
55°	21078	19457	21078
60°	20770	20770	20770
65°	20172	20172	20172
70°	17675	17675	17675
75°	16769	16769	16769
80°	15175	15175	15175
85°	10671	10671	10671

MAXIMUM LUMINANCE 45°-90°:

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



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.0	20.1
10°-20°	60.3	33.7
20°-30°	40.2	22.4
30°-40°	16.4	9.1
40°-50°	10.3	5.8
50°-60°	6.9	3.9
60°-70°	5.4	3.0
70°-80°	2.9	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°	136.4	76.2
0°-40°	152.7	85.3
0°-60°	170.0	95.0
0°-90°	179.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	179.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	460	460	460	460	460	
5°	409	408	409	408	406	36
15°	208	213	217	218	214	58
25°	71	83	108	85	70	34
35°	21	25	25	24	21	14
45°	12	13	16	14	12	9
55°	8	8	7	8	8	7
65°	6	6	6	6	6	5
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°	459.6	459.6	459.6	459.6	459.6
2.5°	449.1	449.6	448.5	448.0	446.8
5°	409.1	408.0	408.6	407.5	405.8
7.5°	363.1	362.0	365.4	363.1	362.0
10°	308.2	309.4	312.7	312.1	317.1
12.5°	255.0	258.4	261.1	261.7	262.8
15°	208.5	213.4	217.3	217.9	214.0
17.5°	169.1	178.0	186.8	180.7	174.6
20°	134.7	144.7	159.7	146.9	137.5
22.5°	100.9	112.5	133.6	115.9	102.6
25°	71.0	83.2	107.6	84.8	69.9
27.5°	48.8	57.1	82.1	58.8	47.1
30°	33.8	42.1	58.2	42.1	33.3
32.5°	24.9	32.7	37.7	31.6	25.5
35°	21.1	24.9	24.9	24.4	21.1
37.5°	18.3	20.0	21.1	20.0	18.3
40°	16.1	17.2	18.8	17.2	16.1
42.5°	14.4	15.5	17.2	15.5	14.4
45°	11.6	13.3	15.5	13.9	12.2
47.5°	8.3	10.5	14.4	11.1	8.3
50°	8.3	8.3	12.2	8.3	8.3
52.5°	7.8	7.8	9.4	7.8	7.8
55°	7.8	7.8	7.2	7.8	7.8
57.5°	7.2	7.2	7.2	7.2	7.2
60°	6.7	6.7	6.7	6.7	6.7
62.5°	6.1	6.1	6.1	6.1	6.1
65°	5.5	5.5	5.5	5.5	5.5
67.5°	4.4	5.0	4.4	5.0	5.0
70°	3.9	3.9	3.9	3.9	3.9
72.5°	3.3	3.3	3.3	3.3	3.3
75°	2.8	2.8	2.8	2.8	2.8
77.5°	2.2	2.2	2.2	2.2	2.2
80°	1.7	1.7	1.7	1.7	1.7
82.5°	1.1	1.1	1.1	1.1	1.1
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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