

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: P886055

Luminaire Tested: ML104LSFLD2W1E-TIR1D55WFL-TL1SDMWB-200LM-4000K

Issue Date: 6/19/2024

Test Information

Test Method: LM-79-2019
Report Number: P886055
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-151)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/19/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML104LSFLD2W1E-TIR1D55WFL-TL1SDMWB-200LM-4000K
Description: 1IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE WHITE BAFFLED TRIM
Light Source: (1) D2W LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

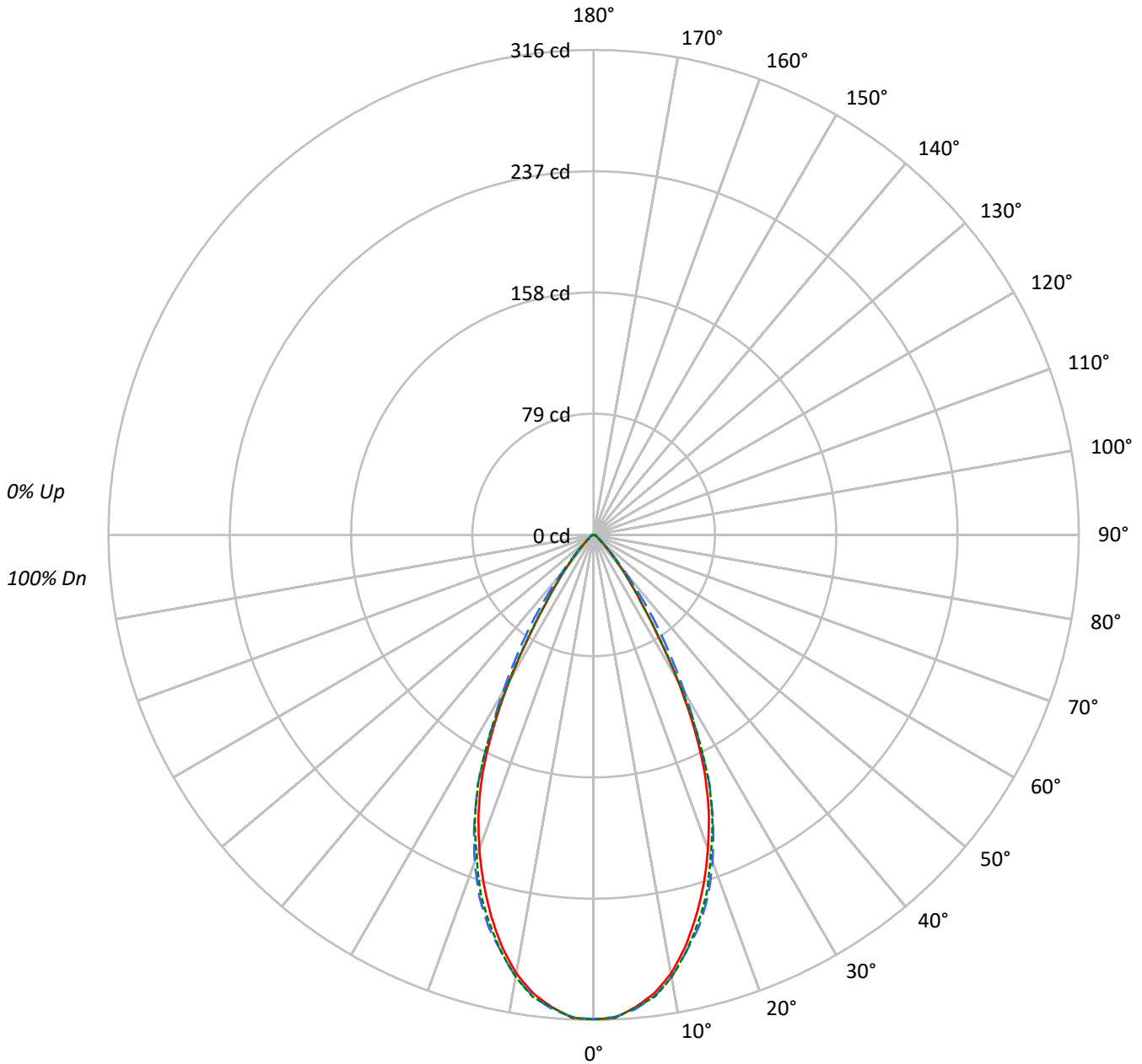
Lumens per Lamp: N/A
Luminaire Lumens: 239.4 lumens
Efficiency: N/A
Efficacy: 74.8 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.83 / 0.81
Luminous Opening: Rectangular (W 0.08' x L: 0.08' x H: 0')
CIE Type: Direct

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	113	111	108	106	111	109	106	104	104	103	101	101	99	98	97	96	95	93																			
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	92	90	89	87																			
3	103	96	91	87	101	95	90	87	92	88	85	90	87	84	88	85	83	81																			
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76																			
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71																			
6	88	80	74	70	87	79	73	69	77	73	69	76	72	69	75	71	68	67																			
7	84	75	69	65	83	75	69	65	73	68	65	72	68	64	71	67	64	63																			
8	80	71	65	61	79	71	65	61	70	65	61	68	64	61	68	63	60	59																			
9	77	67	62	58	76	67	61	58	66	61	57	65	61	57	64	60	57	56																			
10	73	64	58	55	72	64	58	55	63	58	54	62	57	54	61	57	54	53																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	489185	489185	489185
5°	480940	482807	480940
10°	456596	460216	460216
15°	413048	424442	420591
20°	358765	373610	367672
25°	292795	303912	303912
30°	195805	211734	197952
35°	102369	133780	103504
40°	54025	66165	55239
45°	27401	31346	27401
50°	12780	17121	14227
55°	9729	11350	9729
60°	9300	9300	9300
65°	8802	8802	8802
70°	8157	8157	8157
75°	7187	7187	7187
80°	5356	5356	5356
85°	10671	10671	10671

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 31346 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.0	12.1
10°-20°	72.8	30.4
20°-30°	78.6	32.8
30°-40°	39.9	16.7
40°-50°	11.2	4.7
50°-60°	3.7	1.5
60°-70°	2.3	1.0
70°-80°	1.4	0.6
80°-90°	0.4	0.2
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°	180.4	75.4
0°-40°	220.3	92.0
0°-60°	235.2	98.3
0°-90°	239.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	239.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	316	316	316	316	316	
5°	309	310	310	310	309	29
15°	257	260	264	264	262	72
25°	171	174	178	178	178	76
35°	54	59	71	61	55	36
45°	12	13	14	13	12	10
55°	4	4	4	4	4	3
65°	2	2	2	2	2	2
75°	1	1	1	1	1	1
85°	1	1	1	1	1	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	315.6	315.6	315.6	315.6	315.6
2.5°	315.0	314.4	314.4	315.0	315.0
5°	309.1	310.3	310.3	310.3	309.1
7.5°	301.4	302.0	303.1	303.1	303.7
10°	290.1	291.3	292.4	292.4	292.4
12.5°	275.2	276.4	278.2	278.8	278.2
15°	257.4	260.3	264.5	263.9	262.1
17.5°	238.4	241.9	247.3	245.5	244.9
20°	217.5	221.7	226.5	224.7	222.9
22.5°	196.1	199.7	203.3	203.3	202.1
25°	171.2	173.6	177.7	177.7	177.7
27.5°	141.5	144.4	145.6	148.0	146.2
30°	109.4	113.5	118.3	117.1	110.6
32.5°	77.9	84.4	92.7	86.8	79.1
35°	54.1	59.4	70.7	60.6	54.7
37.5°	38.6	40.4	49.3	40.4	39.2
40°	26.7	27.9	32.7	27.9	27.3
42.5°	18.4	19.6	21.4	19.6	17.8
45°	12.5	13.1	14.3	13.1	12.5
47.5°	7.7	8.3	9.5	8.9	8.3
50°	5.3	5.9	7.1	6.5	5.9
52.5°	4.2	4.8	5.3	4.8	4.8
55°	3.6	3.6	4.2	4.2	3.6
57.5°	3.0	3.0	3.6	3.0	3.0
60°	3.0	3.0	3.0	3.0	3.0
62.5°	2.4	2.4	2.4	2.4	2.4
65°	2.4	2.4	2.4	2.4	2.4
67.5°	1.8	2.4	1.8	2.4	1.8
70°	1.8	1.8	1.8	1.8	1.8
72.5°	1.8	1.8	1.8	1.8	1.8
75°	1.2	1.2	1.2	1.2	1.2
77.5°	1.2	1.2	1.2	1.2	1.2
80°	0.6	0.6	0.6	1.2	0.6
82.5°	0.6	0.6	0.6	0.6	0.6
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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