

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: P885667

Luminaire Tested: ML104LSFL95FS1E-TIR1D25NFL-TL1SDMWB-340LM-5000K

Issue Date: 6/19/2024

Test Information

Test Method: LM-79-2019
Report Number: P885667
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: ML104LSFL95FS1E-TIR1D25NFL-TL1SDMWB-340LM-5000K
Description: 1IN SQUARE ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE WHITE BAFFLED TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 5000K CCT
Ballast/Driver: -

Summary

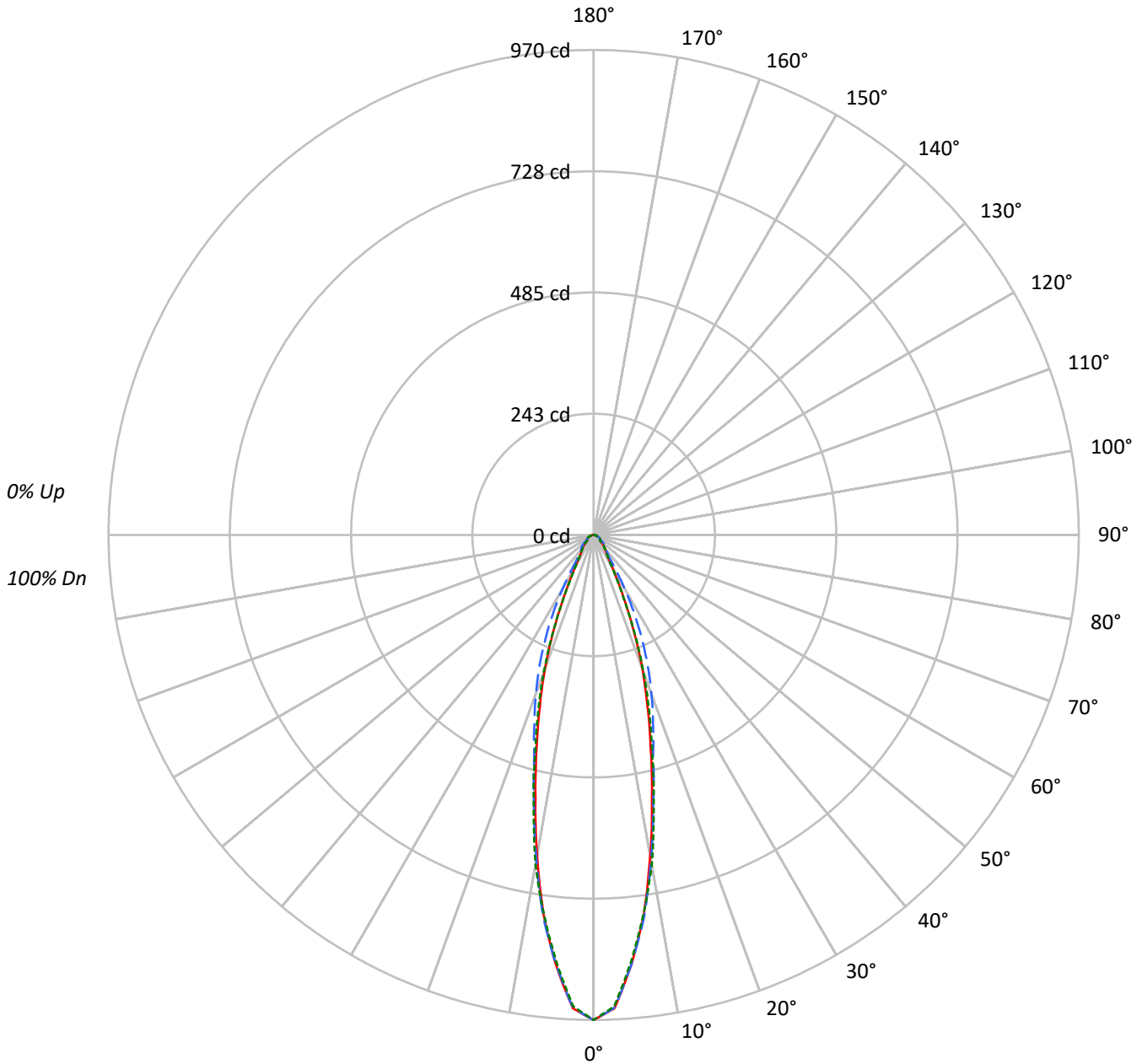
Lumens per Lamp: N/A
Luminaire Lumens: 377.7 lumens
Efficiency: N/A
Efficacy: 61.9 lumens/watt
Spacing Criteria (0/90/45): 0.46 / 0.47 / 0.56
Luminous Opening: Rectangular (W 0.08' x L: 0.08' x H: 0')
CIE Type: Direct

Input Watts (W): 6.1
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				
RW	70	50	30	10	70	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°	1503826	1503826	1503826
5°	1343863	1341996	1332971
10°	1024155	1038792	1053587
15°	706066	736234	724841
20°	469116	555879	478683
25°	256196	388228	252262
30°	127792	219967	125644
35°	84204	99720	84204
40°	68593	80531	68593
45°	53925	71899	56336
50°	42441	61973	42441
55°	44319	41076	44319
60°	43400	43400	43400
65°	42912	42912	42912
70°	37162	37162	37162
75°	35334	35334	35334
80°	31242	31242	31242
85°	21341	21341	21341

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 71899 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.9	20.1
10°-20°	127.2	33.7
20°-30°	84.8	22.4
30°-40°	34.5	9.1
40°-50°	21.8	5.8
50°-60°	14.6	3.9
60°-70°	11.3	3.0
70°-80°	6.2	1.6
80°-90°	1.4	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°	287.9	76.2
0°-40°	322.4	85.4
0°-60°	358.8	95.0
0°-90°	377.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	377.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	970	970	970	970	970	
5°	864	861	862	860	857	76
15°	440	451	459	460	452	122
25°	150	176	227	179	148	72
35°	44	53	53	52	44	29
45°	25	28	33	29	26	19
55°	16	16	15	16	16	14
65°	12	12	12	12	12	11
75°	6	6	6	6	6	6
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°	970.2	970.2	970.2	970.2	970.2
2.5°	947.9	949.1	946.8	945.6	943.3
5°	863.7	861.3	862.5	860.2	856.7
7.5°	766.5	764.2	771.2	766.5	764.2
10°	650.7	653.0	660.0	658.9	669.4
12.5°	538.3	545.4	551.2	552.4	554.7
15°	440.0	450.6	458.8	459.9	451.7
17.5°	356.9	375.7	394.4	381.5	368.6
20°	284.4	305.4	337.0	310.1	290.2
22.5°	213.0	237.6	282.0	244.6	216.5
25°	149.8	175.5	227.0	179.1	147.5
27.5°	103.0	120.5	173.2	124.1	99.5
30°	71.4	88.9	122.9	88.9	70.2
32.5°	52.7	69.0	79.6	66.7	53.8
35°	44.5	52.7	52.7	51.5	44.5
37.5°	38.6	42.1	44.5	42.1	38.6
40°	33.9	36.3	39.8	36.3	33.9
42.5°	30.4	32.8	36.3	32.8	30.4
45°	24.6	28.1	32.8	29.3	25.7
47.5°	17.6	22.2	30.4	23.4	17.6
50°	17.6	17.6	25.7	17.6	17.6
52.5°	16.4	16.4	19.9	16.4	16.4
55°	16.4	16.4	15.2	16.4	16.4
57.5°	15.2	15.2	15.2	15.2	15.2
60°	14.0	14.0	14.0	14.0	14.0
62.5°	12.9	12.9	12.9	12.9	12.9
65°	11.7	11.7	11.7	11.7	11.7
67.5°	9.4	10.5	9.4	10.5	10.5
70°	8.2	8.2	8.2	8.2	8.2
72.5°	7.0	7.0	7.0	7.0	7.0
75°	5.9	5.9	5.9	5.9	5.9
77.5°	4.7	4.7	4.7	4.7	4.7
80°	3.5	3.5	3.5	3.5	3.5
82.5°	2.3	2.3	2.3	2.3	2.3
85°	1.2	1.2	1.2	1.2	1.2
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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