

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: P885665

Luminaire Tested: ML104LSFL95FS1E-TIR1D25NFL-TL1SDMWB-340LM-3500K

Issue Date: 6/19/2024

Test Information

Test Method: LM-79-2019
Report Number: P885665
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-3500K
Description: 1IN SQUARE ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE WHITE BAFFLED TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 3500K CCT
Ballast/Driver: -

Summary

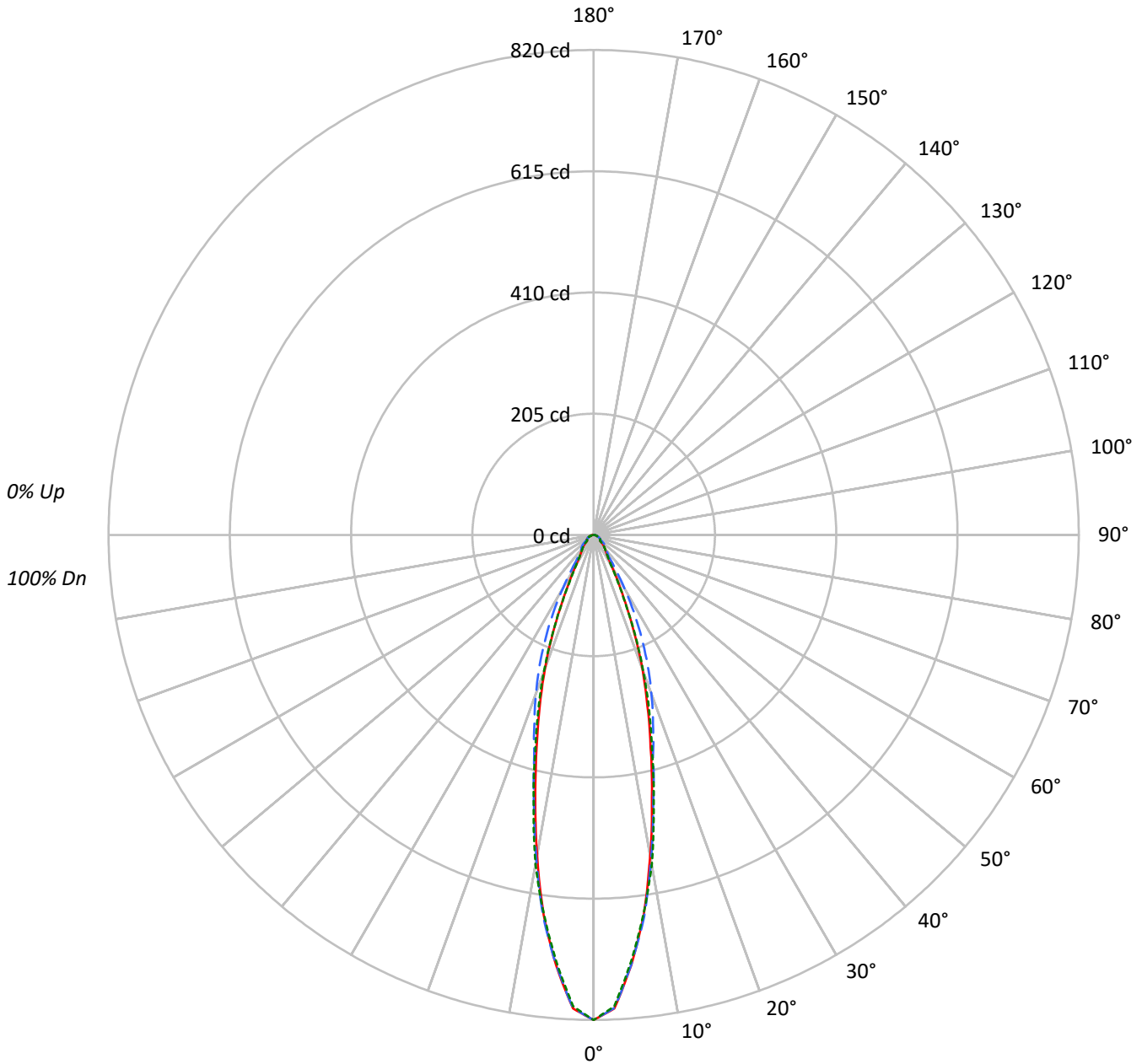
Lumens per Lamp: N/A
Luminaire Lumens: 319.4 lumens
Efficiency: N/A
Efficacy: 52.4 lumens/watt
Spacing Criteria (0/90/45): 0.46 / 0.47 / 0.56
Luminous Opening: Rectangular (W 0.08' x L: 0.08' x H: 0')
CIE Type: Direct

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					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°	1271323	1271323	1271323
5°	1136145	1134589	1126810
10°	865818	878252	890686
15°	596946	622301	612833
20°	396538	469940	404786
25°	216518	328198	213269
30°	108104	185961	106314
35°	71147	84204	71147
40°	58072	67986	58072
45°	45595	60720	47787
50°	35689	52568	35689
55°	37563	34861	37563
60°	36890	36890	36890
65°	36310	36310	36310
70°	31270	31270	31270
75°	29345	29345	29345
80°	26779	26779	26779
85°	17784	17784	17784

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 60720 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.2	20.1
10°-20°	107.5	33.7
20°-30°	71.7	22.4
30°-40°	29.2	9.1
40°-50°	18.4	5.8
50°-60°	12.4	3.9
60°-70°	9.6	3.0
70°-80°	5.2	1.6
80°-90°	1.2	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°	243.4	76.2
0°-40°	272.6	85.3
0°-60°	303.4	95.0
0°-90°	319.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	319.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	820	820	820	820	820	
5°	730	728	729	727	724	64
15°	372	381	388	389	382	104
25°	127	148	192	151	125	61
35°	38	44	44	44	38	25
45°	21	24	28	25	22	16
55°	14	14	13	14	14	12
65°	10	10	10	10	10	9
75°	5	5	5	5	5	5
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°	820.2	820.2	820.2	820.2	820.2
2.5°	801.4	802.4	800.4	799.4	797.5
5°	730.2	728.2	729.2	727.2	724.2
7.5°	648.1	646.1	652.0	648.1	646.1
10°	550.1	552.1	558.0	557.0	565.9
12.5°	455.1	461.1	466.0	467.0	469.0
15°	372.0	380.9	387.8	388.8	381.9
17.5°	301.8	317.6	333.4	322.5	311.7
20°	240.4	258.2	284.9	262.2	245.4
22.5°	180.1	200.8	238.4	206.8	183.0
25°	126.6	148.4	191.9	151.4	124.7
27.5°	87.1	101.9	146.4	104.9	84.1
30°	60.4	75.2	103.9	75.2	59.4
32.5°	44.5	58.4	67.3	56.4	45.5
35°	37.6	44.5	44.5	43.5	37.6
37.5°	32.7	35.6	37.6	35.6	32.7
40°	28.7	30.7	33.6	30.7	28.7
42.5°	25.7	27.7	30.7	27.7	25.7
45°	20.8	23.7	27.7	24.7	21.8
47.5°	14.8	18.8	25.7	19.8	14.8
50°	14.8	14.8	21.8	14.8	14.8
52.5°	13.9	13.9	16.8	13.9	13.9
55°	13.9	13.9	12.9	13.9	13.9
57.5°	12.9	12.9	12.9	12.9	12.9
60°	11.9	11.9	11.9	11.9	11.9
62.5°	10.9	10.9	10.9	10.9	10.9
65°	9.9	9.9	9.9	9.9	9.9
67.5°	7.9	8.9	7.9	8.9	8.9
70°	6.9	6.9	6.9	6.9	6.9
72.5°	5.9	5.9	5.9	5.9	5.9
75°	4.9	4.9	4.9	4.9	4.9
77.5°	4.0	4.0	4.0	4.0	4.0
80°	3.0	3.0	3.0	3.0	3.0
82.5°	2.0	2.0	2.0	2.0	2.0
85°	1.0	1.0	1.0	1.0	1.0
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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