

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: P885715

Luminaire Tested: ML104LSFL95FS1E-TIR1D40FL-TL1SDMBB-340LM-3500K

Issue Date: 6/19/2024

Test Information

Test Method: LM-79-2019
Report Number: P885715
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-147)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/19/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML104LSFL95FS1E-TIR1D40FL-TL1SDMBB-340LM-3500K
Description: 1IN SQUARE ML FLEX, SELECTABLE CCT, WITH 40D TIR, MATTE BLACK BAFFLED TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 3500K CCT
Ballast/Driver: -

Summary

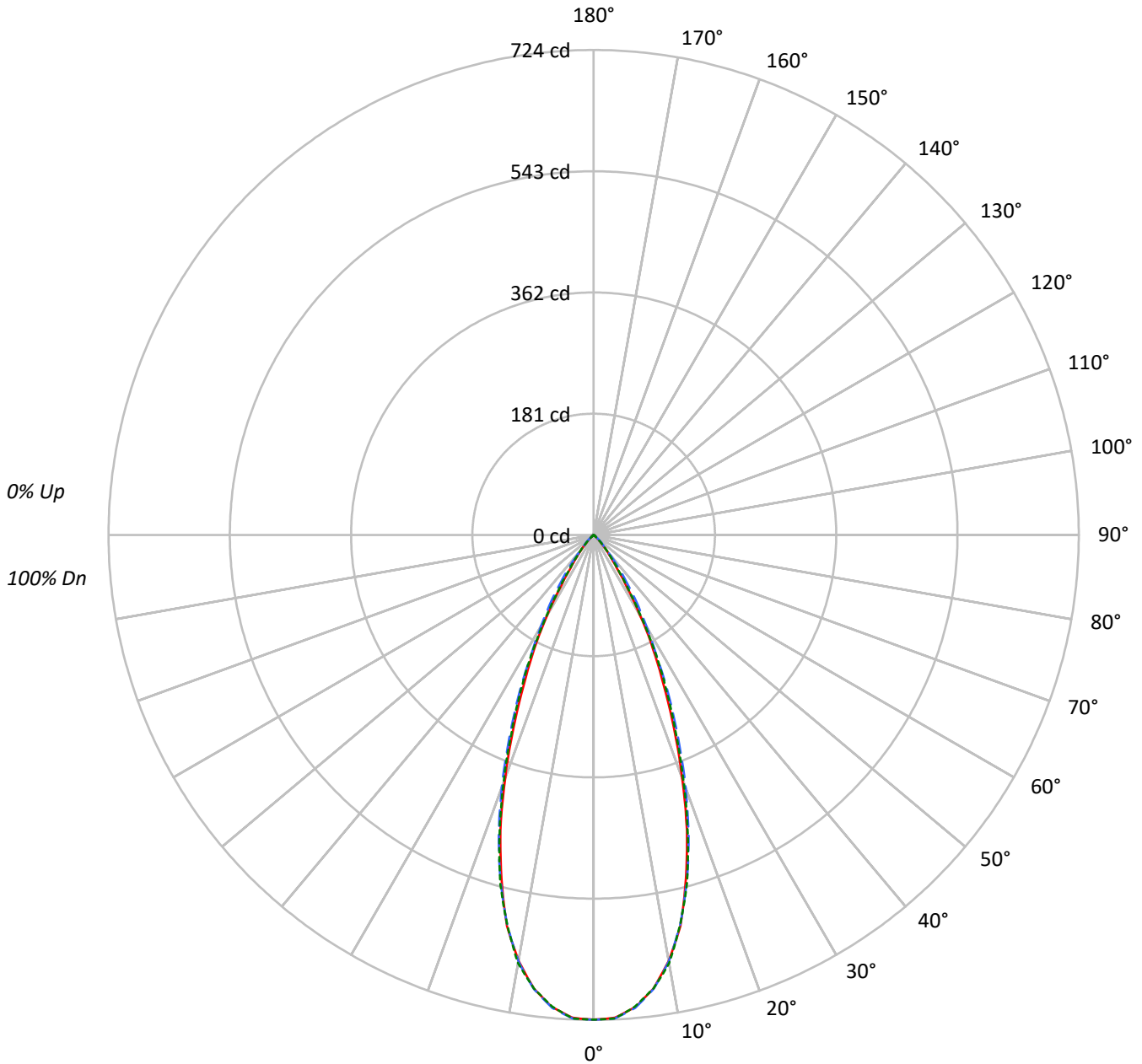
Lumens per Lamp: N/A
Luminaire Lumens: 390.9 lumens
Efficiency: N/A
Efficacy: 64.1 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.68
Luminous Opening: Rectangular (W 0.08' x L: 0.08' x H: 0')
CIE Type: Direct

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					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								
1	114	112	109	107	112	110	108	106	106	104	103	102	101	99	98	97	97	95								
2	109	105	101	98	107	103	100	97	100	98	95	97	95	93	95	93	91	90								
3	105	99	95	91	103	98	94	91	95	92	89	93	90	88	91	88	86	85								
4	100	94	89	85	99	93	88	85	91	87	84	89	85	83	87	84	82	80								
5	96	89	84	80	95	88	83	80	86	82	79	85	81	78	83	80	78	76								
6	92	84	79	75	91	84	79	75	82	78	75	81	77	74	80	76	74	72								
7	88	80	75	71	87	80	75	71	78	74	71	77	73	70	76	73	70	69								
8	85	77	71	68	84	76	71	68	75	70	67	74	70	67	73	69	67	66								
9	81	73	68	64	80	73	68	64	72	67	64	71	67	64	70	66	64	63								
10	78	70	65	61	77	69	65	61	69	64	61	68	64	61	67	64	61	60								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1121592	1121592	1121592
5°	1101292	1102848	1099736
10°	1015813	1017387	1022109
15°	853056	860919	864128
20°	636869	661282	648251
25°	421578	453730	441930
30°	248067	279925	256837
35°	112398	159136	121670
40°	56048	68189	60095
45°	19509	32442	19509
50°	7234	11816	7234
55°	2702	2702	2702
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 32442 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.6	16.8
10°-20°	146.7	37.5
20°-30°	118.7	30.4
30°-40°	48.3	12.3
40°-50°	10.4	2.7
50°-60°	1.1	0.3
60°-70°	0.0	0.0
70°-80°	0.0	0.0
80°-90°	0.0	0.0
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°	331.1	84.7
0°-40°	379.3	97.0
0°-60°	390.9	100.0
0°-90°	390.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	390.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	724	724	724	724	724	
5°	708	708	709	707	707	66
15°	532	536	536	534	538	146
25°	246	254	265	258	258	114
35°	59	69	84	72	64	42
45°	9	11	15	12	9	8
55°	1	1	1	1	1	1
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	723.6	723.6	723.6	723.6	723.6
2.5°	721.6	721.6	722.6	721.6	722.6
5°	707.8	707.8	708.8	706.8	706.8
7.5°	683.0	683.0	684.0	684.0	683.0
10°	645.4	647.4	646.4	648.4	649.4
12.5°	597.9	596.9	595.9	597.9	595.9
15°	531.6	535.5	536.5	534.5	538.5
17.5°	462.3	465.3	471.2	471.2	467.2
20°	386.1	396.0	400.9	397.0	393.0
22.5°	312.8	320.7	329.6	326.7	320.7
25°	246.5	254.4	265.3	258.4	258.4
27.5°	192.0	199.0	202.9	204.9	200.9
30°	138.6	148.5	156.4	153.4	143.5
32.5°	92.1	102.9	117.8	108.9	97.0
35°	59.4	69.3	84.1	72.3	64.3
37.5°	40.6	45.5	56.4	47.5	43.6
40°	27.7	31.7	33.7	31.7	29.7
42.5°	16.8	19.8	21.8	20.8	17.8
45°	8.9	10.9	14.8	11.9	8.9
47.5°	4.0	5.9	8.9	5.9	4.0
50°	3.0	3.0	4.9	3.0	3.0
52.5°	2.0	2.0	2.0	2.0	2.0
55°	1.0	1.0	1.0	1.0	1.0
57.5°	0.0	0.0	1.0	1.0	0.0
60°	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
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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