

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: P885773

Luminaire Tested: ML104LSFL95FS1E-TIR1D55WFL-TL1SDMBB-340LM-2700K

Issue Date: 6/19/2024

Test Information

Test Method: LM-79-2019
Report Number: P885773
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-153)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/19/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML104LSFL95FS1E-TIR1D55WFL-TL1SDMBB-340LM-2700K
Description: 1IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE BLACK BAFFLED TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 2700K CCT
Ballast/Driver: -

Summary

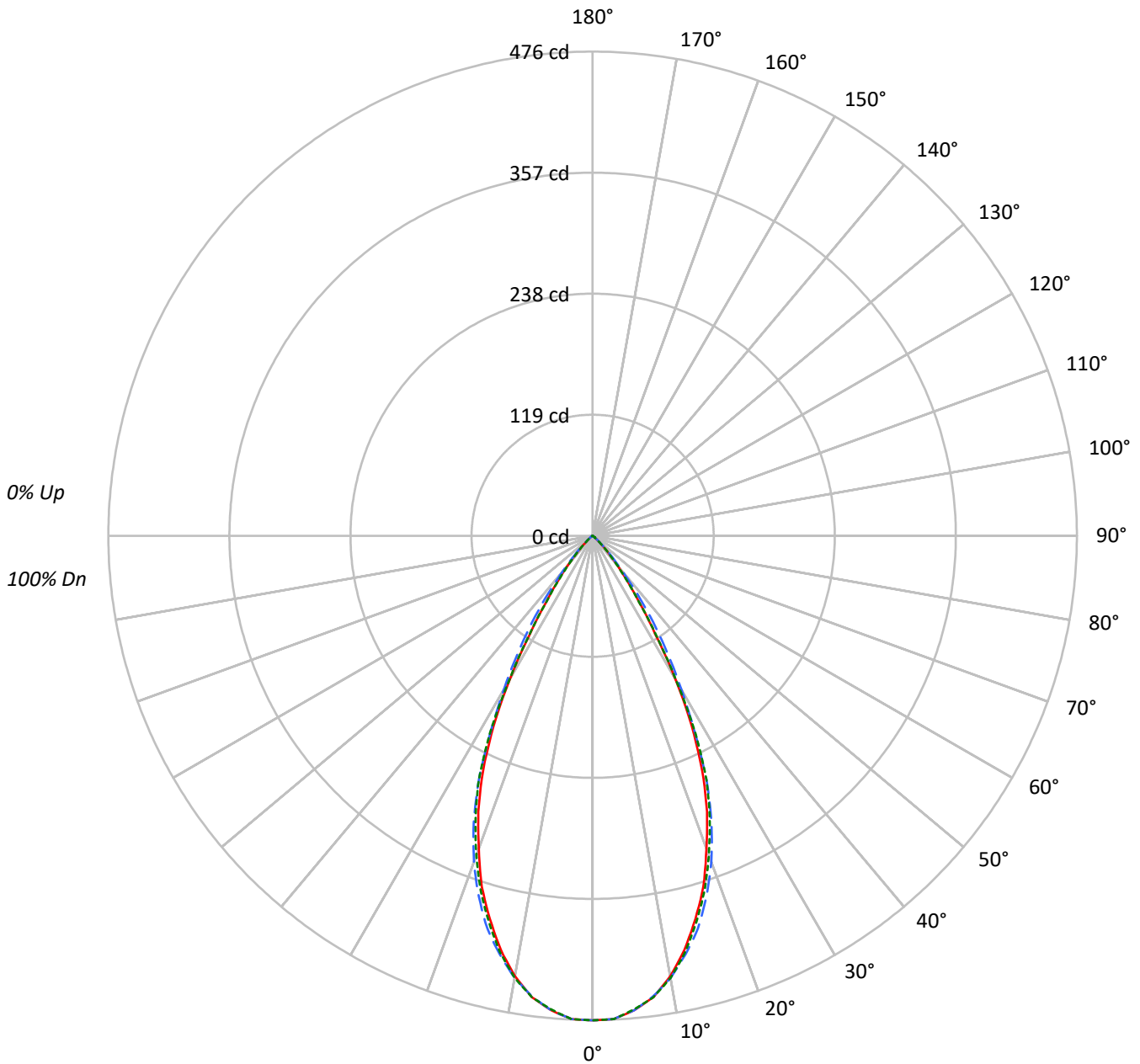
Lumens per Lamp: N/A
Luminaire Lumens: 344.2 lumens
Efficiency: N/A
Efficacy: 56.4 lumens/watt
Spacing Criteria (0/90/45): 0.81 / 0.83 / 0.8
Luminous Opening: Rectangular (W 0.08' x L: 0.08' x H: 0')
CIE Type: Direct

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	100	100	100	100	100		
	1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94	94	94	94	94	94		
	2	109	104	100	97	107	102	99	96	99	96	94	96	94	92	94	92	90	88	88	88	88	88	88		
	3	104	98	93	89	102	96	92	89	94	90	87	91	88	86	89	87	84	83	83	83	83	83	83		
	4	99	92	87	83	97	91	86	82	89	84	81	87	83	80	85	82	79	78	78	78	78	78	78		
	5	94	86	81	77	93	85	80	77	84	79	76	82	78	75	81	77	75	73	73	73	73	73	73		
	6	90	82	76	72	88	81	75	72	79	75	71	78	74	71	77	73	70	69	69	69	69	69	69		
	7	86	77	71	67	84	76	71	67	75	70	67	74	70	67	73	69	66	65	65	65	65	65	65		
	8	82	73	67	64	81	72	67	63	71	67	63	70	66	63	69	66	63	61	61	61	61	61	61		
	9	78	69	64	60	77	69	63	60	68	63	60	67	63	59	66	62	59	58	58	58	58	58	58		
	10	75	66	60	57	74	65	60	57	65	60	56	64	59	56	63	59	56	55	55	55	55	55	55		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	738428	738428	738428
5°	728645	728645	727245
10°	691741	694574	694574
15°	625831	641717	631608
20°	539219	562972	551096
25°	435944	452875	452875
30°	291738	311068	293349
35°	151756	196034	150053
40°	76485	91053	72842
45°	29593	35511	29593
50°	10851	10851	8681
55°	2432	4864	4864
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: 35511 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.8	12.7
10°-20°	109.8	31.9
20°-30°	117.3	34.1
30°-40°	58.4	17.0
40°-50°	13.2	3.8
50°-60°	1.6	0.5
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°	271.0	78.7
0°-40°	329.4	95.7
0°-60°	344.2	100.0
0°-90°	344.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	344.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	476	476	476	476	476	
5°	468	468	468	468	467	44
15°	390	394	400	397	394	108
25°	255	258	265	265	265	114
35°	80	86	104	88	79	53
45°	14	14	16	14	14	12
55°	1	2	2	2	2	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	476.4	476.4	476.4	476.4	476.4
2.5°	475.5	475.5	475.5	475.5	475.5
5°	468.3	468.3	468.3	468.3	467.4
7.5°	457.5	457.5	456.6	456.6	457.5
10°	439.5	440.4	441.3	441.3	441.3
12.5°	417.0	417.9	421.5	420.6	419.7
15°	390.0	393.6	399.9	397.2	393.6
17.5°	362.0	365.7	372.0	370.2	365.7
20°	326.9	331.4	341.3	337.7	334.1
22.5°	293.6	298.1	305.3	305.3	300.8
25°	254.9	258.5	264.8	264.8	264.8
27.5°	210.7	216.1	217.0	221.6	218.8
30°	163.0	170.2	173.8	172.9	163.9
32.5°	114.4	126.1	136.9	130.6	117.1
35°	80.2	86.5	103.6	88.3	79.3
37.5°	54.9	57.6	72.0	57.6	54.0
40°	37.8	38.7	45.0	39.6	36.0
42.5°	23.4	25.2	27.9	24.3	22.5
45°	13.5	14.4	16.2	14.4	13.5
47.5°	7.2	8.1	9.0	8.1	7.2
50°	4.5	4.5	4.5	4.5	3.6
52.5°	2.7	2.7	2.7	2.7	2.7
55°	0.9	1.8	1.8	1.8	1.8
57.5°	0.0	0.9	0.9	0.9	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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