

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: P885676

Luminaire Tested: ML104LSFL95FS1E-TIR1D25NFL-TL1SDSLB-340LM-4000K

Issue Date: 6/19/2024

Test Information

Test Method: LM-79-2019
Report Number: P885676
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-140)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/19/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML104LSFL95FS1E-TIR1D25NFL-TL1SDSLB-340LM-4000K
Description: 1IN SQUARE ML FLEX, SELECTABLE CCT, WITH 25D TIR, METALLIC SILVER BAFFLED TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 331.5 lumens
Efficiency: N/A
Efficacy: 54.3 lumens/watt
Spacing Criteria (0/90/45): 0.47 / 0.47 / 0.56
Luminous Opening: Rectangular (W 0.08' x L: 0.08' x H: 0')
CIE Type: Direct

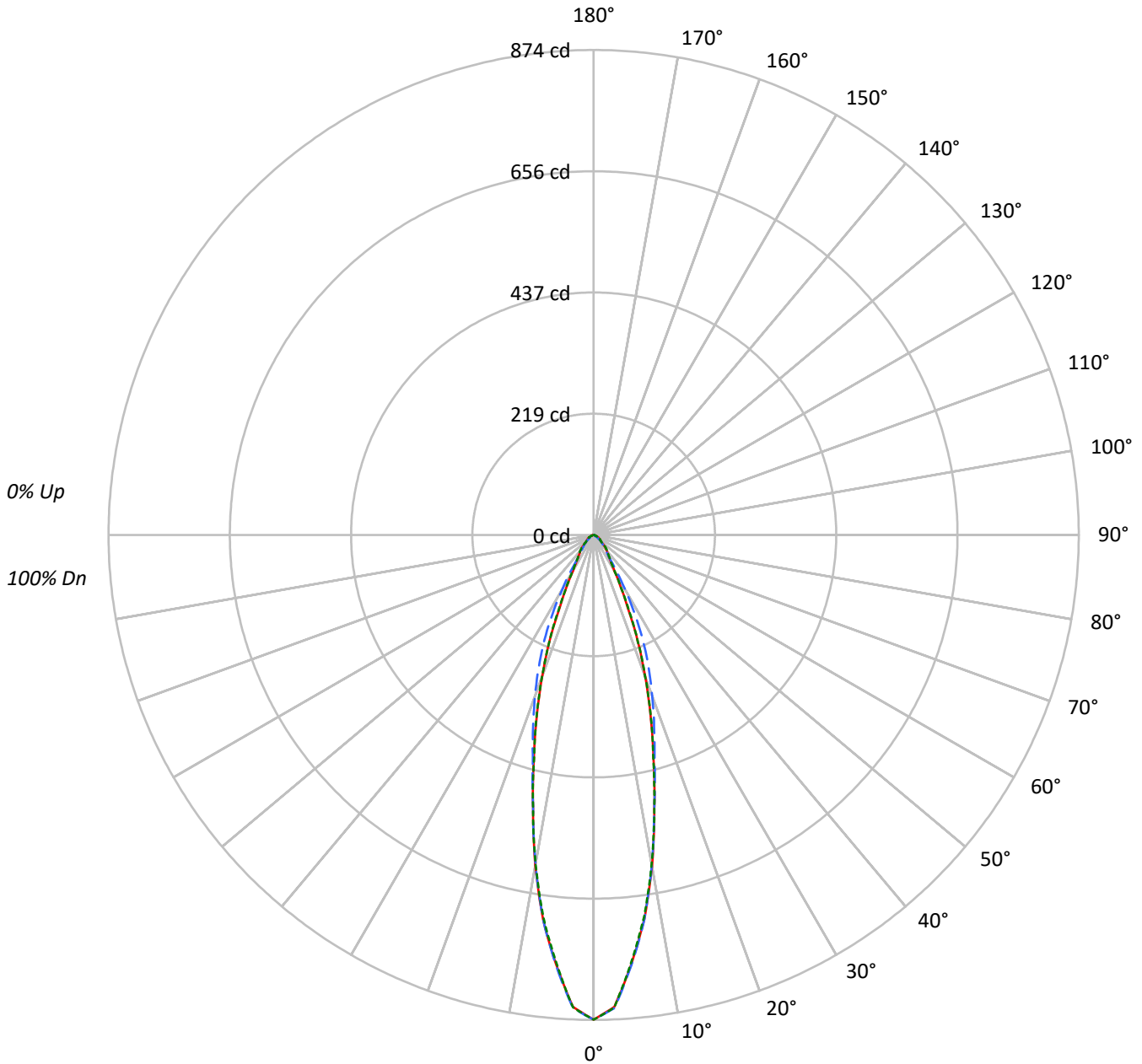
Input Watts (W): 6.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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					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	111	109	107	112	109	107	105	105	104	102	101	100	99	98	97	96	94								
2	109	104	101	98	107	103	99	96	99	97	94	97	94	92	94	92	90	89								
3	104	98	94	90	102	97	93	89	94	91	88	92	89	87	90	87	85	84								
4	100	93	88	84	98	92	87	83	89	86	82	88	84	81	86	83	81	79								
5	95	88	83	79	94	87	82	78	85	81	78	84	80	77	82	79	76	75								
6	91	83	78	74	90	83	78	74	81	77	73	80	76	73	79	75	72	71								
7	88	79	74	70	86	79	74	70	78	73	70	76	72	69	75	72	69	68								
8	84	76	71	67	83	75	70	67	74	70	66	73	69	66	72	69	66	65								
9	81	73	67	64	80	72	67	64	71	67	63	70	66	63	70	66	63	62								
10	78	70	64	61	77	69	64	61	68	64	61	68	64	61	67	63	60	59								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1354094	1354094	1354094
5°	1208652	1211919	1203673
10°	952541	949236	947662
15°	668837	678946	663862
20°	446188	508704	448002
25°	248500	360008	257393
30°	133698	201532	137457
35°	89691	87610	93665
40°	72438	61714	76687
45°	55459	48444	60062
50°	40511	35448	40511
55°	37022	11350	37022
60°	32550	9920	32550
65°	23106	7702	23106
70°	14502	4985	14502
75°	6588	6588	6588
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 60062 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.9	20.8
10°-20°	117.3	35.4
20°-30°	80.7	24.3
30°-40°	33.5	10.1
40°-50°	18.1	5.4
50°-60°	8.3	2.5
60°-70°	3.7	1.1
70°-80°	1.1	0.3
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°	266.9	80.5
0°-40°	300.4	90.6
0°-60°	326.7	98.6
0°-90°	331.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	331.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	874	874	874	874	874	
5°	777	775	779	776	774	69
15°	417	419	423	421	414	116
25°	145	168	210	170	150	70
35°	47	52	46	52	50	31
45°	25	23	22	24	27	20
55°	14	8	4	8	14	12
65°	6	3	2	3	6	6
75°	1	1	1	1	1	2
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°	873.6	873.6	873.6	873.6	873.6
2.5°	851.5	852.6	853.6	855.8	852.6
5°	776.8	774.7	778.9	775.8	773.6
7.5°	698.9	698.9	698.9	696.8	694.7
10°	605.2	605.2	603.1	604.2	602.1
12.5°	504.2	501.0	504.2	502.1	505.2
15°	416.8	418.9	423.1	421.0	413.7
17.5°	340.0	348.4	362.1	349.5	342.1
20°	270.5	286.3	308.4	286.3	271.6
22.5°	208.4	226.3	258.9	227.4	208.4
25°	145.3	168.4	210.5	170.5	150.5
27.5°	105.3	118.9	161.0	121.0	106.3
30°	74.7	86.3	112.6	88.4	76.8
32.5°	57.9	67.4	71.6	66.3	58.9
35°	47.4	51.6	46.3	51.6	49.5
37.5°	41.1	40.0	36.8	41.1	43.2
40°	35.8	32.6	30.5	33.7	37.9
42.5°	31.6	28.4	26.3	28.4	32.6
45°	25.3	23.2	22.1	24.2	27.4
47.5°	18.9	16.8	18.9	17.9	18.9
50°	16.8	11.6	14.7	11.6	16.8
52.5°	14.7	9.5	9.5	9.5	14.7
55°	13.7	8.4	4.2	8.4	13.7
57.5°	11.6	7.4	4.2	7.4	11.6
60°	10.5	6.3	3.2	6.3	10.5
62.5°	8.4	4.2	2.1	4.2	8.4
65°	6.3	3.2	2.1	3.2	6.3
67.5°	4.2	2.1	1.1	2.1	4.2
70°	3.2	2.1	1.1	2.1	3.2
72.5°	2.1	1.1	1.1	1.1	2.1
75°	1.1	1.1	1.1	1.1	1.1
77.5°	1.1	1.1	0.0	0.0	1.1
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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