

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: P885674

Luminaire Tested: ML104LSFL95FS1E-TIR1D25NFL-TL1SDSLB-340LM-3000K

Issue Date: 6/19/2024

Test Information

Test Method: LM-79-2019
Report Number: P885674
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-3000K
Description: 1IN SQUARE ML FLEX, SELECTABLE CCT, WITH 25D TIR, METALLIC SILVER BAFFLED TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 294.4 lumens
Efficiency: N/A
Efficacy: 48.3 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

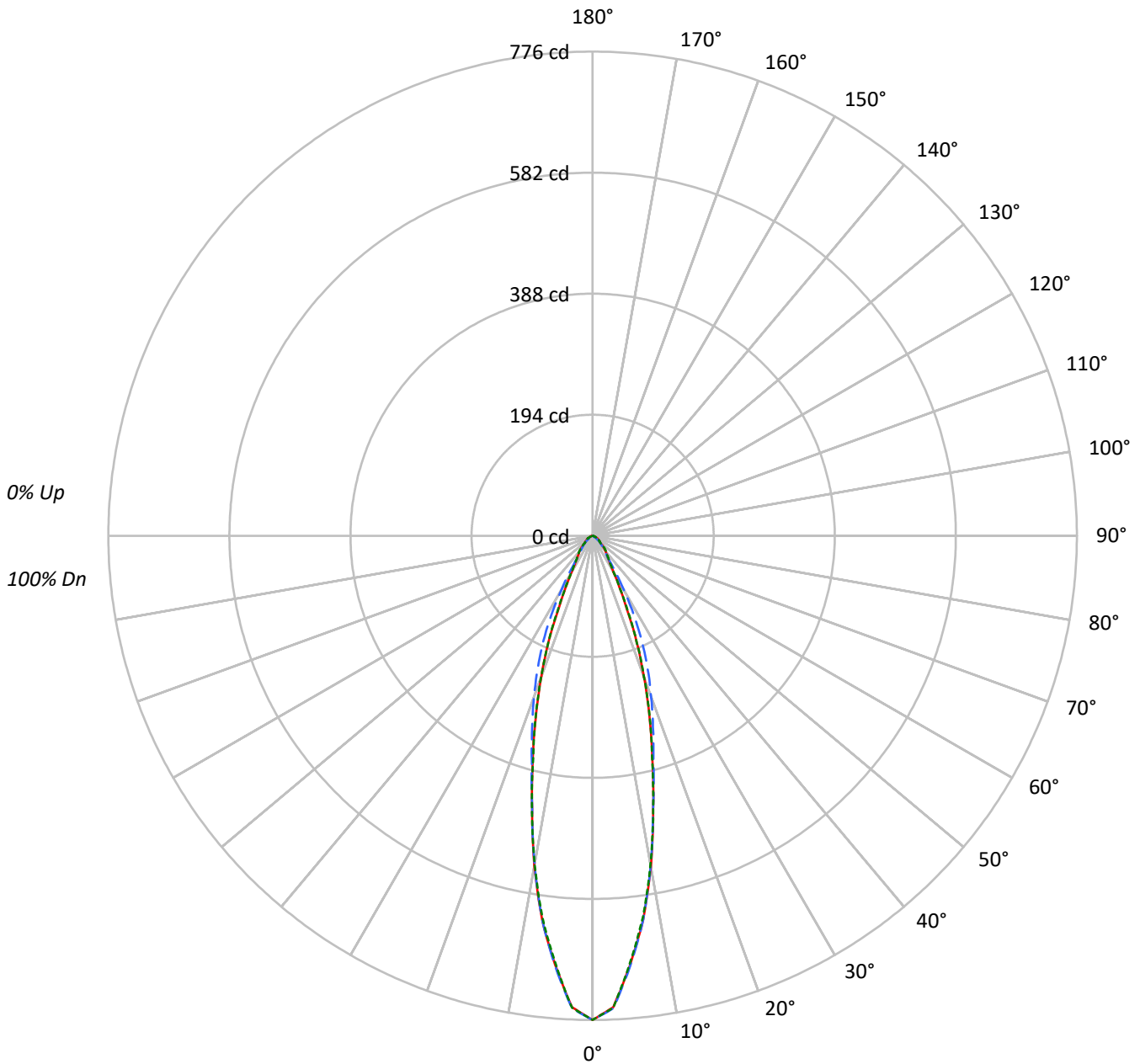
Input Watts (W): 6.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	73	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	64	70	66	63	70	66	63	62								
10	78	70	64	61	77	69	64	61	68	64	61	68	64	61	67	63	61	59								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1202658	1202658	1202658
5°	1073441	1076242	1068929
10°	845986	842996	841579
15°	594058	603044	589565
20°	396208	451796	397858
25°	220623	319817	228661
30°	118843	178980	122065
35°	79662	77770	83068
40°	64344	54834	68189
45°	49102	42964	53267
50°	36171	31589	36171
55°	32969	9999	32969
60°	28830	8680	28830
65°	20539	6969	20539
70°	12689	4079	12689
75°	5390	5390	5390
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 53267 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.2	20.8
10°-20°	104.2	35.4
20°-30°	71.6	24.3
30°-40°	29.7	10.1
40°-50°	16.1	5.5
50°-60°	7.4	2.5
60°-70°	3.3	1.1
70°-80°	0.9	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°	237.0	80.5
0°-40°	266.8	90.6
0°-60°	290.2	98.6
0°-90°	294.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	294.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	776	776	776	776	776	
5°	690	688	692	689	687	61
15°	370	372	376	374	367	103
25°	129	150	187	151	134	62
35°	42	46	41	46	44	28
45°	22	21	20	22	24	17
55°	12	8	4	8	12	11
65°	6	3	2	3	6	6
75°	1	1	1	1	1	1
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°	775.9	775.9	775.9	775.9	775.9
2.5°	756.2	757.2	758.1	760.0	757.2
5°	689.9	688.0	691.7	688.9	687.0
7.5°	620.7	620.7	620.7	618.8	616.9
10°	537.5	537.5	535.6	536.6	534.7
12.5°	447.7	444.9	447.7	445.9	448.7
15°	370.2	372.0	375.8	373.9	367.4
17.5°	301.9	309.4	321.6	310.3	303.8
20°	240.2	254.3	273.9	254.3	241.2
22.5°	185.1	201.0	230.0	201.9	185.1
25°	129.0	149.6	187.0	151.4	133.7
27.5°	93.5	105.6	143.0	107.5	94.4
30°	66.4	76.7	100.0	78.5	68.2
32.5°	51.4	59.8	63.6	58.9	52.3
35°	42.1	45.8	41.1	45.8	43.9
37.5°	36.5	35.5	32.7	36.5	38.3
40°	31.8	29.0	27.1	29.9	33.7
42.5°	28.0	25.2	23.4	25.2	29.0
45°	22.4	20.6	19.6	21.5	24.3
47.5°	16.8	15.0	16.8	15.9	16.8
50°	15.0	10.3	13.1	10.3	15.0
52.5°	13.1	8.4	8.4	8.4	13.1
55°	12.2	7.5	3.7	7.5	12.2
57.5°	10.3	6.5	3.7	6.5	10.3
60°	9.3	5.6	2.8	5.6	9.3
62.5°	7.5	3.7	1.9	3.7	7.5
65°	5.6	2.8	1.9	2.8	5.6
67.5°	3.7	1.9	0.9	1.9	3.7
70°	2.8	1.9	0.9	1.9	2.8
72.5°	1.9	0.9	0.9	0.9	1.9
75°	0.9	0.9	0.9	0.9	0.9
77.5°	0.9	0.9	0.0	0.0	0.9
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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