

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: P885797

Luminaire Tested: ML104LSFL95FS1E-TIR1D55WFL-TL1SDSLB-340LM-5000K

Issue Date: 6/19/2024

Test Information

Test Method: LM-79-2019
Report Number: P885797
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-152)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/19/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML104LSFL95FS1E-TIR1D55WFL-TL1SDSLB-340LM-5000K
Description: 1IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, METALLIC SILVER BAFFLED TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 5000K CCT
Ballast/Driver: -

Summary

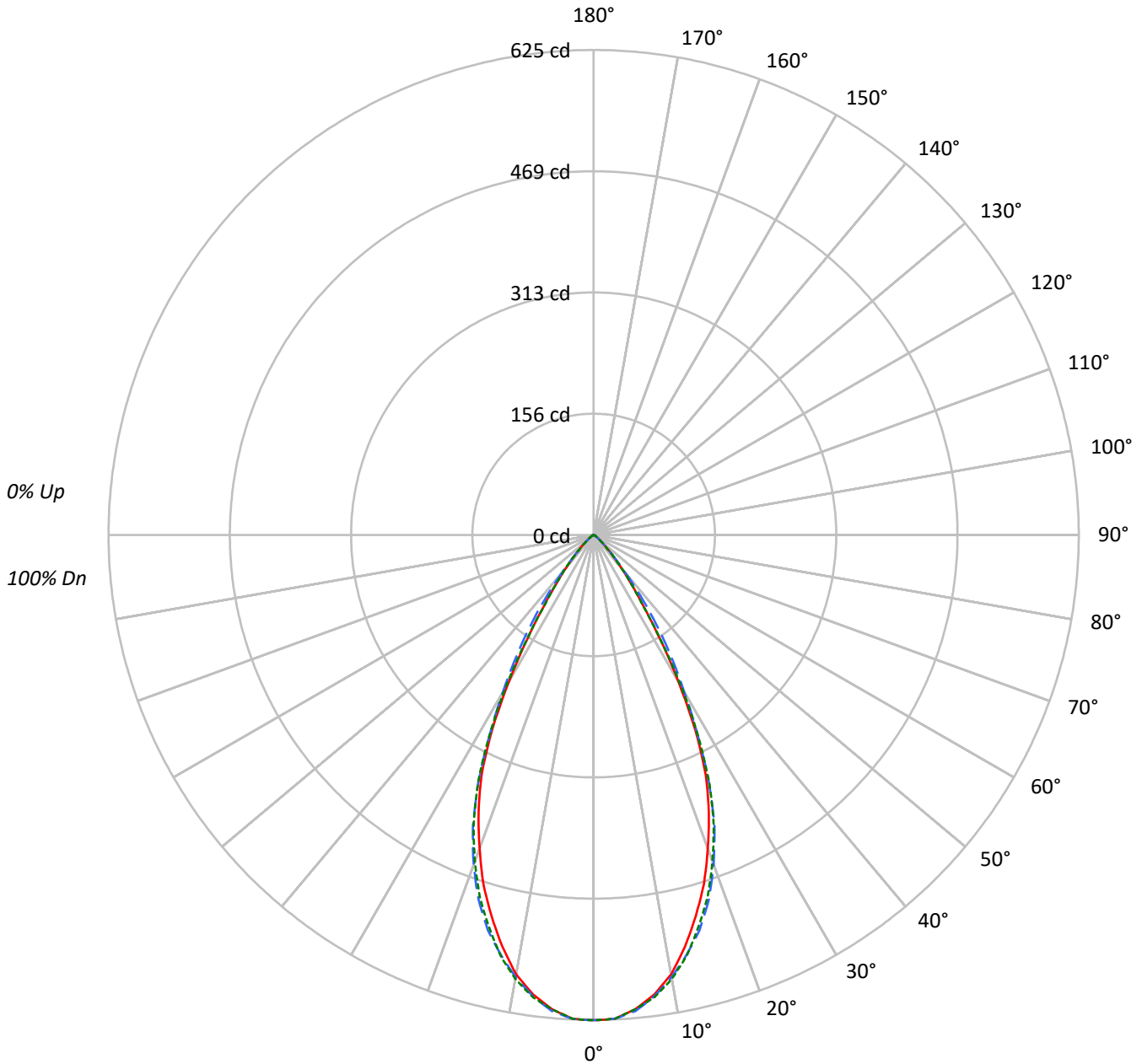
Lumens per Lamp: N/A
Luminaire Lumens: 466.3 lumens
Efficiency: N/A
Efficacy: 76.4 lumens/watt
Spacing Criteria (0/90/45): 0.81 / 0.84 / 0.81
Luminous Opening: Rectangular (W 0.08' x L: 0.08' x H: 0')
CIE Type: Direct

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	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	111	109	107	105	105	103	102	101	100	99	98	97	96	94								
2	108	104	100	97	106	102	99	96	99	96	93	96	94	91	93	91	90	88								
3	103	97	92	89	101	96	91	88	93	89	86	91	88	85	88	86	84	82								
4	98	91	86	82	97	90	85	81	88	84	80	86	82	79	84	81	79	77								
5	94	86	80	76	92	85	80	76	83	78	75	81	77	74	80	76	74	72								
6	89	81	75	71	88	80	75	71	78	74	70	77	73	70	76	72	69	68								
7	85	76	70	66	84	76	70	66	74	69	66	73	69	66	72	68	65	64								
8	81	72	66	62	80	72	66	62	70	66	62	69	65	62	69	65	62	60								
9	78	68	63	59	76	68	62	59	67	62	59	66	62	58	65	61	58	57								
10	74	65	59	56	73	64	59	56	64	59	55	63	58	55	62	58	55	54								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	969380	969380	969380
5°	954879	958457	954879
10°	905008	910517	914295
15°	815666	845674	838132
20°	708952	745571	737983
25°	584907	600812	602864
30°	389819	417024	404496
35°	210604	265857	206063
40°	111287	127879	113715
45°	53925	56555	53925
50°	25320	22667	25320
55°	15944	9458	15944
60°	10850	3720	10850
65°	8436	4401	8436
70°	5438	0	5438
75°	0	0	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 56555 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.5	12.3
10°-20°	144.7	31.0
20°-30°	156.5	33.6
30°-40°	80.0	17.2
40°-50°	21.1	4.5
50°-60°	4.6	1.0
60°-70°	1.6	0.3
70°-80°	0.3	0.1
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°	358.7	76.9
0°-40°	438.8	94.1
0°-60°	464.5	99.6
0°-90°	466.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	466.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	625	625	625	625	625	
5°	614	615	616	615	614	57
15°	508	515	527	524	522	142
25°	342	346	351	355	352	152
35°	111	118	140	122	109	74
45°	25	23	26	23	25	21
55°	6	5	4	5	6	5
65°	2	1	1	1	2	2
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°	625.4	625.4	625.4	625.4	625.4
2.5°	624.2	624.2	624.2	624.2	624.2
5°	613.7	614.8	616.0	614.8	613.7
7.5°	597.3	597.3	599.6	600.8	600.8
10°	575.0	576.2	578.5	580.9	580.9
12.5°	543.4	549.2	553.9	552.8	555.1
15°	508.3	515.3	527.0	523.5	522.3
17.5°	472.0	480.2	493.0	489.5	488.3
20°	429.8	439.2	452.0	448.5	447.4
22.5°	387.6	395.8	406.4	406.4	404.0
25°	342.0	345.5	351.3	354.8	352.5
27.5°	283.4	291.6	289.3	295.1	290.4
30°	217.8	227.2	233.0	231.9	226.0
32.5°	158.1	169.8	185.0	174.5	161.6
35°	111.3	118.3	140.5	121.8	108.9
37.5°	78.5	82.0	98.4	80.8	78.5
40°	55.0	56.2	63.2	56.2	56.2
42.5°	37.5	37.5	39.8	37.5	37.5
45°	24.6	23.4	25.8	23.4	24.6
47.5°	16.4	15.2	15.2	15.2	15.2
50°	10.5	10.5	9.4	9.4	10.5
52.5°	8.2	7.0	5.9	7.0	7.0
55°	5.9	4.7	3.5	4.7	5.9
57.5°	3.5	3.5	2.3	3.5	3.5
60°	3.5	2.3	1.2	2.3	3.5
62.5°	2.3	2.3	1.2	2.3	2.3
65°	2.3	1.2	1.2	1.2	2.3
67.5°	1.2	1.2	1.2	1.2	1.2
70°	1.2	1.2	0.0	1.2	1.2
72.5°	1.2	1.2	0.0	0.0	1.2
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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