

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: P885770

Luminaire Tested: ML104LSFL95FS1E-TIR1D55WFL-TL1SDMB-340LM-3500K

Issue Date: 6/19/2024

Test Information

Test Method: LM-79-2019
Report Number: P885770
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-150)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/19/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML104LSFL95FS1E-TIR1D55WFL-TL1SDMB-340LM-3500K
Description: 1IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE BLACK TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 3500K CCT
Ballast/Driver: -

Summary

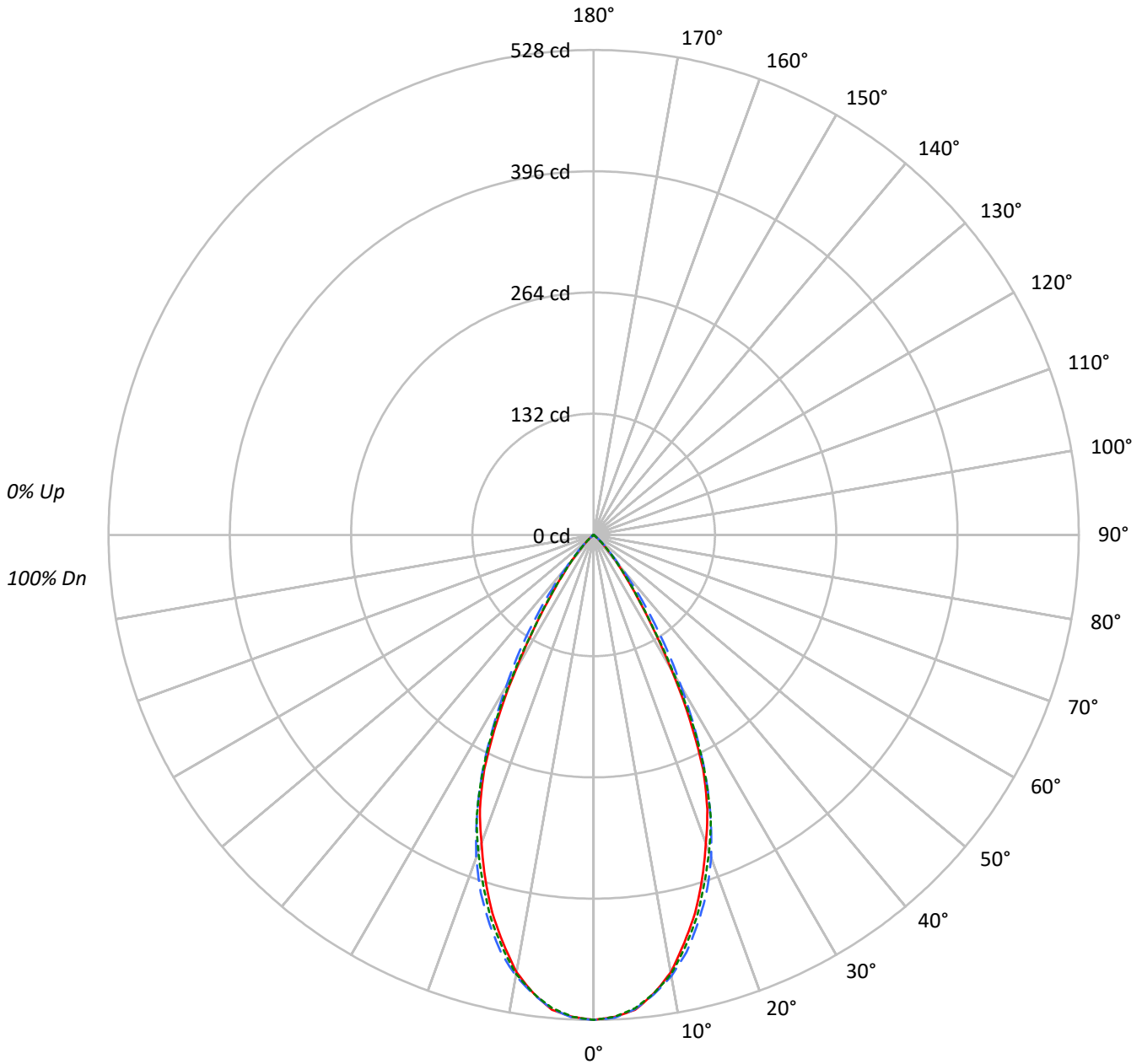
Lumens per Lamp: N/A
Luminaire Lumens: 374.2 lumens
Efficiency: N/A
Efficacy: 61.3 lumens/watt
Spacing Criteria (0/90/45): 0.81 / 0.83 / 0.8
Luminous Opening: Rectangular (W 0.08' x L: 0.08' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	818409	818409	818409
5°	807687	806287	804731
10°	760994	767290	764142
15°	683921	703017	693389
20°	588869	616580	605199
25°	481949	492211	490501
30°	302656	339884	313216
35°	155351	205874	160839
40°	78103	94088	78103
45°	32442	39019	32442
50°	9646	14227	11816
55°	2702	5405	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: 39019 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.4	12.9
10°-20°	120.4	32.2
20°-30°	128.0	34.2
30°-40°	61.6	16.5
40°-50°	14.2	3.8
50°-60°	1.6	0.4
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°	296.8	79.3
0°-40°	358.4	95.8
0°-60°	374.2	100.0
0°-90°	374.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	374.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	528	528	528	528	528	
5°	519	518	518	518	517	48
15°	426	432	438	436	432	118
25°	282	284	288	294	287	124
35°	82	90	109	91	85	55
45°	15	16	18	16	15	13
55°	1	1	2	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	528.0	528.0	528.0	528.0	528.0
2.5°	525.1	525.1	526.1	526.1	525.1
5°	519.1	518.2	518.2	518.2	517.2
7.5°	503.3	503.3	504.3	505.3	503.3
10°	483.5	484.5	487.5	485.5	485.5
12.5°	454.9	458.8	465.7	463.8	459.8
15°	426.2	432.1	438.1	436.1	432.1
17.5°	392.6	399.5	408.4	404.4	399.5
20°	357.0	362.9	373.8	369.8	366.9
22.5°	323.4	326.3	332.3	332.3	333.2
25°	281.8	283.8	287.8	293.7	286.8
27.5°	226.4	233.4	238.3	240.3	235.3
30°	169.1	180.0	189.9	186.9	175.0
32.5°	119.7	131.5	149.3	136.5	121.6
35°	82.1	90.0	108.8	91.0	85.0
37.5°	56.4	61.3	74.2	61.3	58.3
40°	38.6	41.5	46.5	41.5	38.6
42.5°	24.7	26.7	28.7	26.7	24.7
45°	14.8	15.8	17.8	15.8	14.8
47.5°	7.9	8.9	9.9	8.9	7.9
50°	4.0	4.9	5.9	4.9	4.9
52.5°	2.0	3.0	3.0	3.0	3.0
55°	1.0	1.0	2.0	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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