

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: P885775

Luminaire Tested: ML104LSFL95FS1E-TIR1D55WFL-TL1SDMBB-340LM-3500K

Issue Date: 6/19/2024

Test Information

Test Method: LM-79-2019
Report Number: P885775
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-3500K
Description: 1IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE BLACK BAFFLED TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 3500K CCT
Ballast/Driver: -

Summary

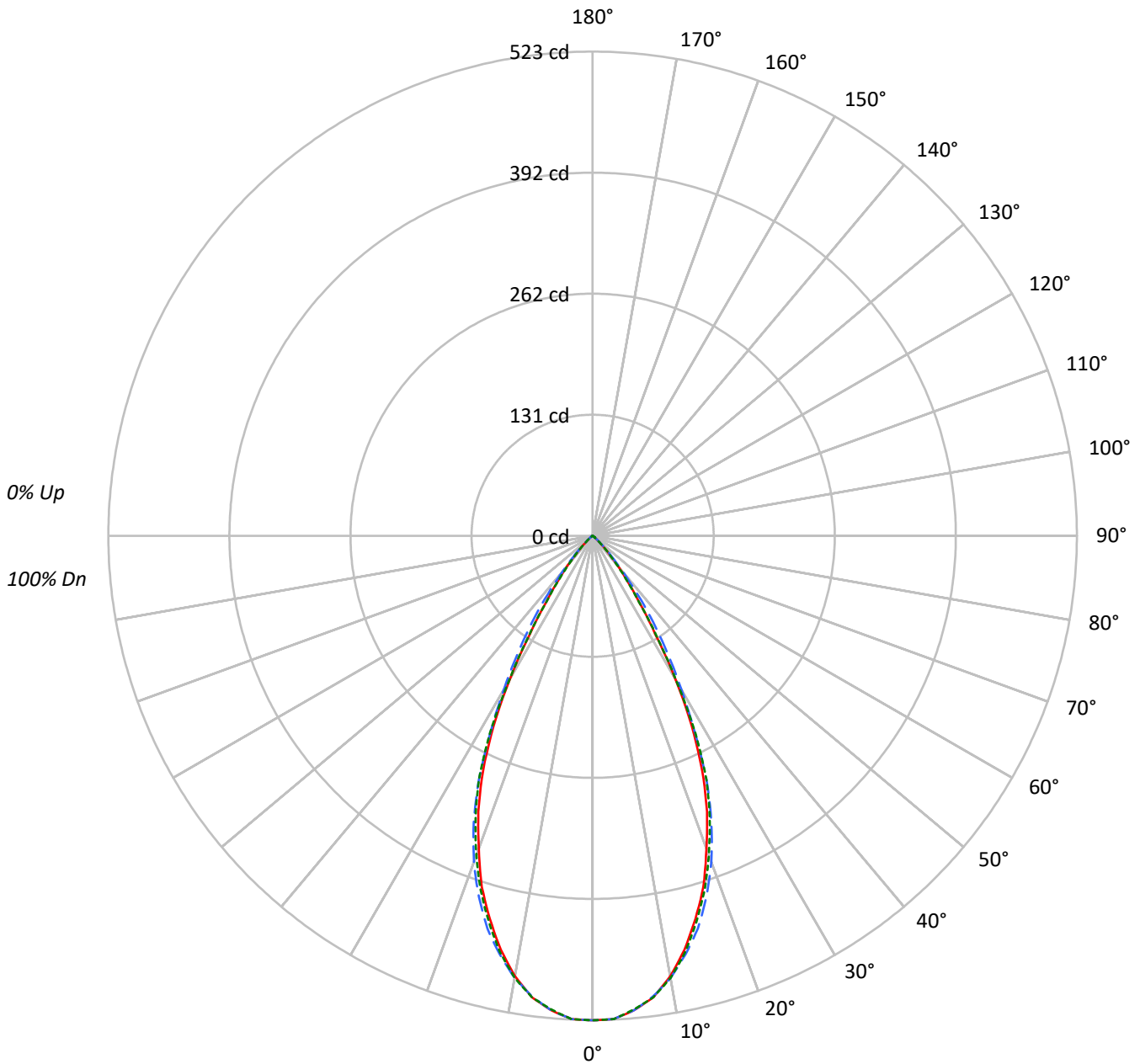
Lumens per Lamp: N/A
Luminaire Lumens: 378.2 lumens
Efficiency: N/A
Efficacy: 62.0 lumens/watt
Spacing Criteria (0/90/45): 0.81 / 0.83 / 0.8
Luminous Opening: Rectangular (W 0.08' x L: 0.08' x H: 0')
CIE Type: Direct

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				
RW	70	50	30	10	70	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	109	104	100	97	107	102	99	96	99	96	94	96	94	92	94	92	90	88		
3	104	98	93	89	102	96	92	89	94	90	87	91	88	86	89	87	84	83		
4	99	92	87	83	97	91	86	82	89	84	81	87	83	80	85	82	79	78		
5	94	86	81	77	93	85	80	77	84	79	76	82	78	75	81	77	75	73		
6	90	82	76	72	88	81	75	72	79	75	71	78	74	71	77	73	70	69		
7	86	77	71	67	84	76	71	67	75	70	67	74	70	67	73	69	66	65		
8	82	73	67	64	81	72	67	63	71	67	63	70	66	63	69	66	63	61		
9	78	69	64	60	77	69	63	60	68	63	60	67	63	59	66	62	59	58		
10	75	66	60	57	74	65	60	57	65	60	56	64	59	56	63	59	56	55		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	811278	811278	811278
5°	800530	800530	799129
10°	760050	763198	763198
15°	687612	704942	693870
20°	592498	618560	605529
25°	478871	497513	497513
30°	320554	341853	322344
35°	166705	215335	164812
40°	84174	100158	80127
45°	32442	39019	32442
50°	11816	11816	9646
55°	2702	5405	5405
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°	48.2	12.7
10°-20°	120.7	31.9
20°-30°	128.9	34.1
30°-40°	64.2	17.0
40°-50°	14.5	3.8
50°-60°	1.8	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°	297.8	78.7
0°-40°	362.0	95.7
0°-60°	378.2	100.0
0°-90°	378.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	378.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	523	523	523	523	523	
5°	514	514	514	514	514	48
15°	428	432	439	436	432	119
25°	280	284	291	291	291	125
35°	88	95	114	97	87	59
45°	15	16	18	16	15	13
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°	523.4	523.4	523.4	523.4	523.4
2.5°	522.5	522.5	522.5	522.5	522.5
5°	514.5	514.5	514.5	514.5	513.6
7.5°	502.7	502.7	501.7	501.7	502.7
10°	482.9	483.9	484.9	484.9	484.9
12.5°	458.1	459.1	463.1	462.1	461.1
15°	428.5	432.4	439.3	436.4	432.4
17.5°	397.8	401.7	408.7	406.7	401.7
20°	359.2	364.1	375.0	371.1	367.1
22.5°	322.6	327.5	335.4	335.4	330.5
25°	280.0	284.0	290.9	290.9	290.9
27.5°	231.5	237.5	238.5	243.4	240.4
30°	179.1	187.0	191.0	190.0	180.1
32.5°	125.7	138.5	150.4	143.5	128.6
35°	88.1	95.0	113.8	97.0	87.1
37.5°	60.4	63.3	79.2	63.3	59.4
40°	41.6	42.5	49.5	43.5	39.6
42.5°	25.7	27.7	30.7	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°	4.9	4.9	4.9	4.9	4.0
52.5°	3.0	3.0	3.0	3.0	3.0
55°	1.0	2.0	2.0	2.0	2.0
57.5°	0.0	1.0	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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