

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P885779

Luminaire Tested: ML104LSFL95FS1E-TIR1D55WFL-TL1SDMW-340LM-3000K

Issue Date: 6/19/2024

Test Information

Test Method: LM-79-2019
Report Number: P885779
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-148)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/19/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML104LSFL95FS1E-TIR1D55WFL-TL1SDMW-340LM-3000K
Description: 1IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE WHITE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 376.5 lumens
Efficiency: N/A
Efficacy: 61.7 lumens/watt
Spacing Criteria (0/90/45): 0.8 / 0.83 / 0.8
Luminous Opening: Rectangular (W 0.08' x L: 0.08' x H: 0')

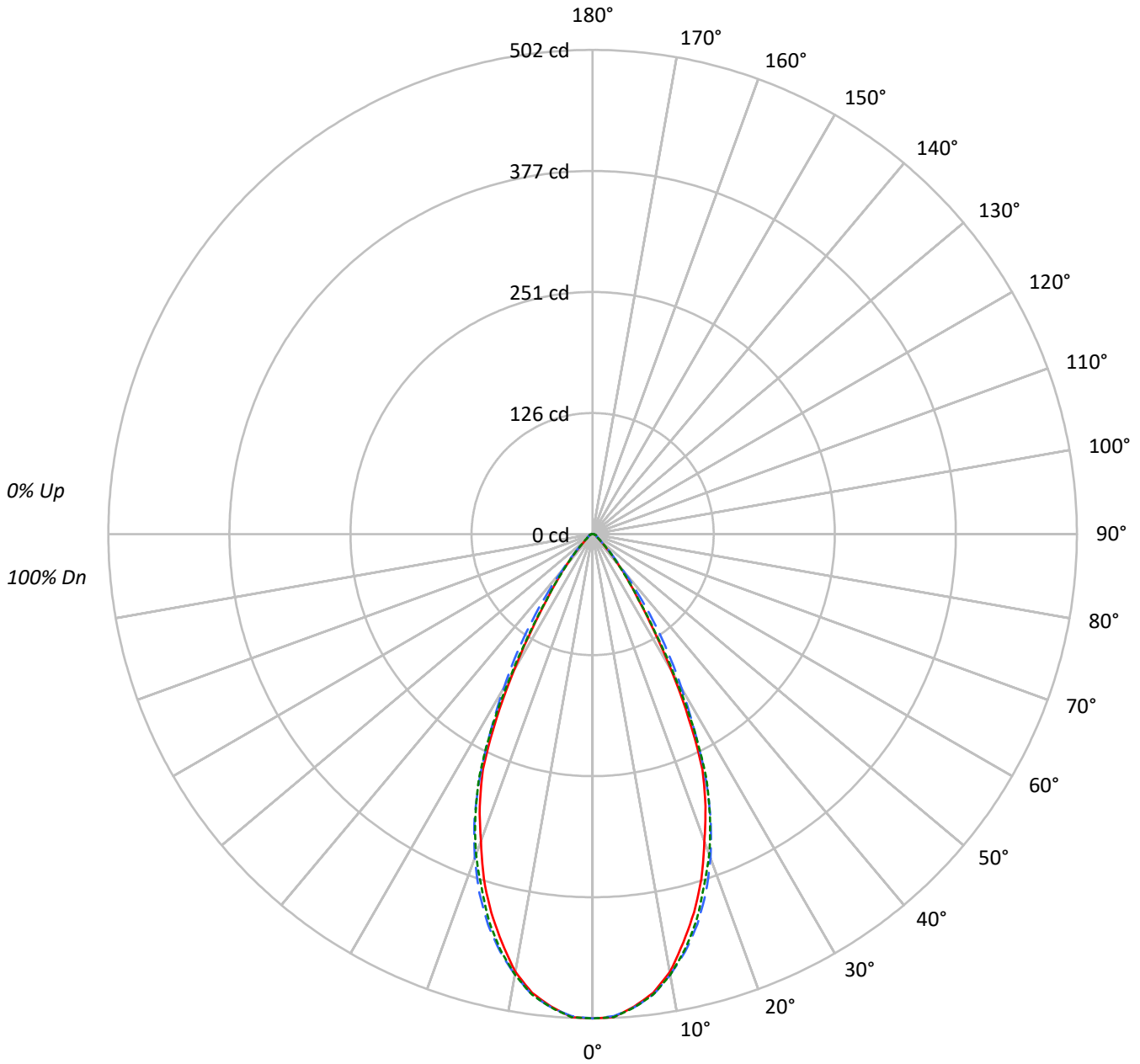
CIE Type: Direct

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								
1	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93								
2	108	103	99	96	106	101	98	94	98	95	92	95	93	90	92	90	89	87								
3	103	96	91	87	101	95	90	87	92	88	85	90	87	84	88	85	83	81								
4	98	90	85	80	96	89	84	80	87	82	79	85	81	78	83	80	77	76								
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71								
6	88	80	74	70	87	79	73	69	77	73	69	76	72	68	75	71	68	67								
7	84	75	69	65	83	75	69	65	73	68	65	72	68	64	71	67	64	63								
8	80	71	65	61	79	71	65	61	69	64	61	68	64	61	68	63	60	59								
9	77	67	62	58	76	67	61	58	66	61	57	65	61	57	64	60	57	56								
10	73	64	58	55	72	64	58	55	63	58	54	62	57	54	61	57	54	53								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	778418	778418	778418
5°	765365	766766	766766
10°	725581	729988	729988
15°	651346	672367	666269
20°	558353	589199	583096
25°	460571	471859	476648
30°	291201	329682	304625
35°	155730	205306	157433
40°	87006	98337	83162
45°	40991	47129	42964
50°	22667	24837	24837
55°	17565	17565	17565
60°	14570	14570	14570
65°	13570	17238	13570
70°	16768	16768	16768
75°	16769	16769	16769
80°	16960	16960	16960
85°	16006	16006	16006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 47129 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.1	12.3
10°-20°	115.1	30.6
20°-30°	122.7	32.6
30°-40°	61.4	16.3
40°-50°	17.5	4.6
50°-60°	6.1	1.6
60°-70°	4.2	1.1
70°-80°	2.7	0.7
80°-90°	0.7	0.2
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°	283.9	75.4
0°-40°	345.3	91.7
0°-60°	368.9	98.0
0°-90°	376.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	376.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	502	502	502	502	502	
5°	492	493	493	493	493	46
15°	406	410	419	416	415	113
25°	269	272	276	279	279	118
35°	82	91	108	92	83	55
45°	19	20	22	21	20	16
55°	6	6	6	6	6	6
65°	4	5	5	5	4	4
75°	3	3	3	3	3	3
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	502.2	502.2	502.2	502.2	502.2
2.5°	501.3	500.3	500.3	501.3	501.3
5°	491.9	492.8	492.8	492.8	492.8
7.5°	479.7	480.7	481.6	482.6	481.6
10°	461.0	462.0	463.8	465.7	463.8
12.5°	433.9	438.6	443.3	442.3	441.4
15°	405.9	410.5	419.0	416.2	415.2
17.5°	375.0	380.6	390.0	389.0	383.4
20°	338.5	347.0	357.2	354.4	353.5
22.5°	305.8	312.4	319.8	320.8	318.0
25°	269.3	272.1	275.9	278.7	278.7
27.5°	216.0	224.4	227.2	230.1	226.3
30°	162.7	173.9	184.2	181.4	170.2
32.5°	116.0	130.0	145.0	134.7	120.6
35°	82.3	90.7	108.5	91.6	83.2
37.5°	59.9	62.7	74.8	63.6	59.9
40°	43.0	44.0	48.6	44.0	41.1
42.5°	29.0	30.9	32.7	30.9	29.0
45°	18.7	19.6	21.5	20.6	19.6
47.5°	12.2	13.1	14.0	14.0	14.0
50°	9.4	9.4	10.3	11.2	10.3
52.5°	7.5	7.5	8.4	8.4	7.5
55°	6.5	6.5	6.5	6.5	6.5
57.5°	5.6	5.6	5.6	5.6	5.6
60°	4.7	4.7	4.7	4.7	4.7
62.5°	4.7	4.7	4.7	4.7	4.7
65°	3.7	4.7	4.7	4.7	3.7
67.5°	3.7	3.7	3.7	3.7	3.7
70°	3.7	3.7	3.7	3.7	3.7
72.5°	2.8	2.8	2.8	2.8	2.8
75°	2.8	2.8	2.8	2.8	2.8
77.5°	1.9	1.9	1.9	1.9	1.9
80°	1.9	1.9	1.9	1.9	1.9
82.5°	0.9	0.9	0.9	0.9	0.9
85°	0.9	0.9	0.9	0.9	0.9
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

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Scaled Data Report



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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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