

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: P886244

Luminaire Tested: ML204LSFL95FS1E-TIR1D55WFL-TL2SDSL-468LM-5000K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886244
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-102)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFL95FS1E-TIR1D55WFL-TL2SDSL-468LM-5000K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, METALLIC SILVER TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 562.6 lumens
Efficiency: N/A
Efficacy: 70.3 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.82
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

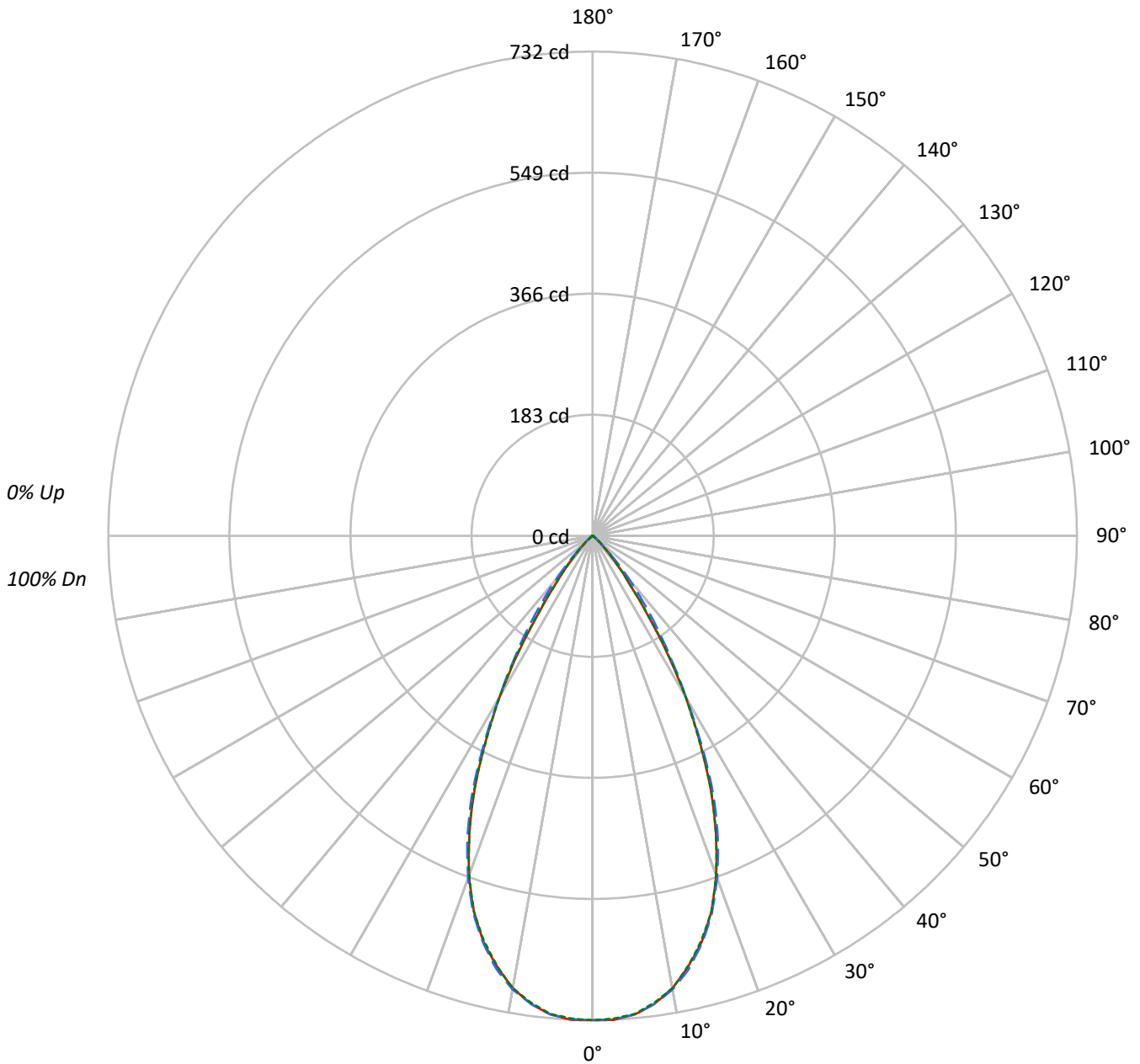
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	111	109	107	105	105	103	102	101	100	99	98	97	96	94								
2	109	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88								
3	103	97	93	89	101	96	92	88	93	90	87	91	88	85	89	86	84	83								
4	99	91	86	82	97	90	85	82	88	84	81	86	83	80	84	81	79	77								
5	94	86	80	76	92	85	80	76	83	79	75	82	78	75	80	77	74	73								
6	90	81	75	71	88	80	75	71	79	74	71	77	73	70	76	73	70	68								
7	85	77	71	67	84	76	70	67	75	70	66	73	69	66	72	69	66	64								
8	81	72	67	63	80	72	66	63	71	66	62	70	65	62	69	65	62	61								
9	78	69	63	59	77	68	63	59	67	62	59	66	62	59	66	62	59	57								
10	74	65	60	56	73	65	59	56	64	59	56	63	59	56	62	58	55	54								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	283843	283843	283843
5°	282633	282633	282282
10°	273270	274018	273270
15°	255184	255946	254381
20°	225318	226926	224947
25°	180344	184491	181156
30°	125509	126403	125509
35°	65896	80182	67741
40°	31059	43857	31514
45°	12275	16002	12275
50°	4099	5305	4099
55°	1284	2635	1284
60°	775	775	775
65°	917	0	917
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: 16002 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.3	12.1
10°-20°	176.7	31.4
20°-30°	191.3	34.0
30°-40°	99.8	17.7
40°-50°	22.9	4.1
50°-60°	2.9	0.5
60°-70°	0.6	0.1
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°	436.3	77.6
0°-40°	536.0	95.3
0°-60°	561.9	99.9
0°-90°	562.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	562.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	732	732	732	732	732	
5°	727	726	727	726	726	68
15°	636	636	638	636	634	176
25°	422	426	432	425	424	190
35°	139	157	170	158	143	93
45°	22	24	29	24	22	20
55°	2	3	4	3	2	2
65°	1	1	0	1	1	1
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°	732.5	732.5	732.5	732.5	732.5
2.5°	732.5	732.5	731.5	732.5	730.5
5°	726.6	725.7	726.6	725.7	725.7
7.5°	714.0	714.0	714.0	713.0	712.0
10°	694.5	695.5	696.4	695.5	694.5
12.5°	667.2	667.2	671.1	666.3	666.3
15°	636.1	636.1	638.0	636.1	634.1
17.5°	596.1	597.1	599.0	595.1	596.1
20°	546.4	547.4	550.3	548.4	545.5
22.5°	487.0	490.9	494.8	495.8	487.0
25°	421.8	425.7	431.5	424.7	423.7
27.5°	349.7	350.7	356.5	352.6	347.7
30°	280.5	280.5	282.5	279.6	280.5
32.5°	207.5	219.2	221.1	219.2	212.3
35°	139.3	156.8	169.5	157.8	143.2
37.5°	89.6	100.3	122.7	101.3	90.6
40°	61.4	64.3	86.7	64.3	62.3
42.5°	39.0	41.9	52.6	41.9	39.0
45°	22.4	24.4	29.2	24.4	22.4
47.5°	12.7	13.6	16.6	13.6	13.6
50°	6.8	7.8	8.8	7.8	6.8
52.5°	3.9	4.9	5.8	4.9	3.9
55°	1.9	2.9	3.9	2.9	1.9
57.5°	1.0	1.0	1.9	1.0	1.0
60°	1.0	1.0	1.0	1.0	1.0
62.5°	1.0	1.0	1.0	1.0	1.0
65°	1.0	1.0	0.0	1.0	1.0
67.5°	0.0	1.0	0.0	0.0	1.0
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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