

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: P886433

Luminaire Tested: ML204LSFL9FS1E-TIR1D55WFL-TL2SDSL-550LM-4000K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886433
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: ML204LSFL9FS1E-TIR1D55WFL-TL2SDSL-550LM-4000K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, METALLIC SILVER TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

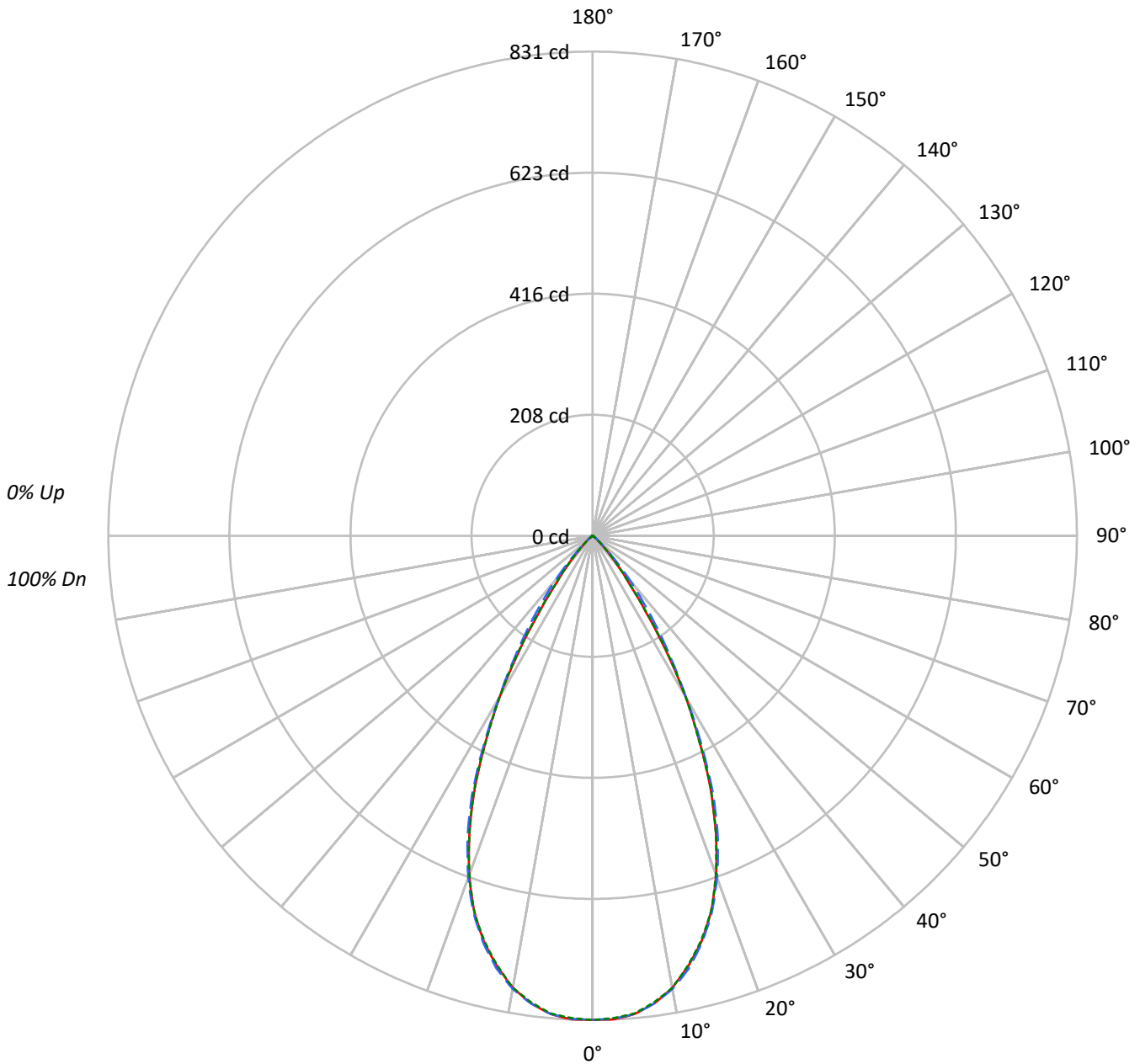
Lumens per Lamp: N/A
Luminaire Lumens: 638.0 lumens
Efficiency: N/A
Efficacy: 80.8 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.82
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 7.9
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				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	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	71	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		63	58	55	54

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	321934	321934	321934
5°	320558	320558	320130
10°	309942	310808	309942
15°	289403	290286	288521
20°	255586	257400	255132
25°	204544	209247	205485
30°	142377	143362	142377
35°	74742	90920	76823
40°	35207	49725	35763
45°	13919	18139	13919
50°	4642	5968	4642
55°	1486	2973	1486
60°	852	852	852
65°	1009	0	1009
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: 18139 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.5	12.1
10°-20°	200.4	31.4
20°-30°	216.9	34.0
30°-40°	113.2	17.7
40°-50°	26.0	4.1
50°-60°	3.3	0.5
60°-70°	0.7	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°	494.8	77.6
0°-40°	608.0	95.3
0°-60°	637.3	99.9
0°-90°	638.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	638.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	831	831	831	831	831	
5°	824	823	824	823	823	77
15°	721	721	724	721	719	200
25°	478	483	489	482	481	215
35°	158	178	192	179	162	105
45°	25	28	33	28	25	23
55°	2	3	4	3	2	3
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°	830.8	830.8	830.8	830.8	830.8
2.5°	830.8	830.8	829.7	830.8	828.6
5°	824.1	823.0	824.1	823.0	823.0
7.5°	809.8	809.8	809.8	808.7	807.6
10°	787.7	788.8	789.9	788.8	787.7
12.5°	756.7	756.7	761.2	755.6	755.6
15°	721.4	721.4	723.6	721.4	719.2
17.5°	676.1	677.2	679.4	675.0	676.1
20°	619.8	620.9	624.2	622.0	618.7
22.5°	552.4	556.8	561.2	562.3	552.4
25°	478.4	482.8	489.4	481.7	480.6
27.5°	396.6	397.7	404.3	399.9	394.4
30°	318.2	318.2	320.4	317.1	318.2
32.5°	235.3	248.6	250.8	248.6	240.8
35°	158.0	177.9	192.2	179.0	162.4
37.5°	101.6	113.8	139.2	114.9	102.7
40°	69.6	72.9	98.3	72.9	70.7
42.5°	44.2	47.5	59.7	47.5	44.2
45°	25.4	27.6	33.1	27.6	25.4
47.5°	14.4	15.5	18.8	15.5	15.5
50°	7.7	8.8	9.9	8.8	7.7
52.5°	4.4	5.5	6.6	5.5	4.4
55°	2.2	3.3	4.4	3.3	2.2
57.5°	1.1	1.1	2.2	1.1	1.1
60°	1.1	1.1	1.1	1.1	1.1
62.5°	1.1	1.1	1.1	1.1	1.1
65°	1.1	1.1	0.0	1.1	1.1
67.5°	0.0	1.1	0.0	0.0	1.1
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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