

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: P886432

Luminaire Tested: ML204LSFL9FS1E-TIR1D55WFL-TL2SDSL-550LM-3500K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886432
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-3500K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, METALLIC SILVER TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

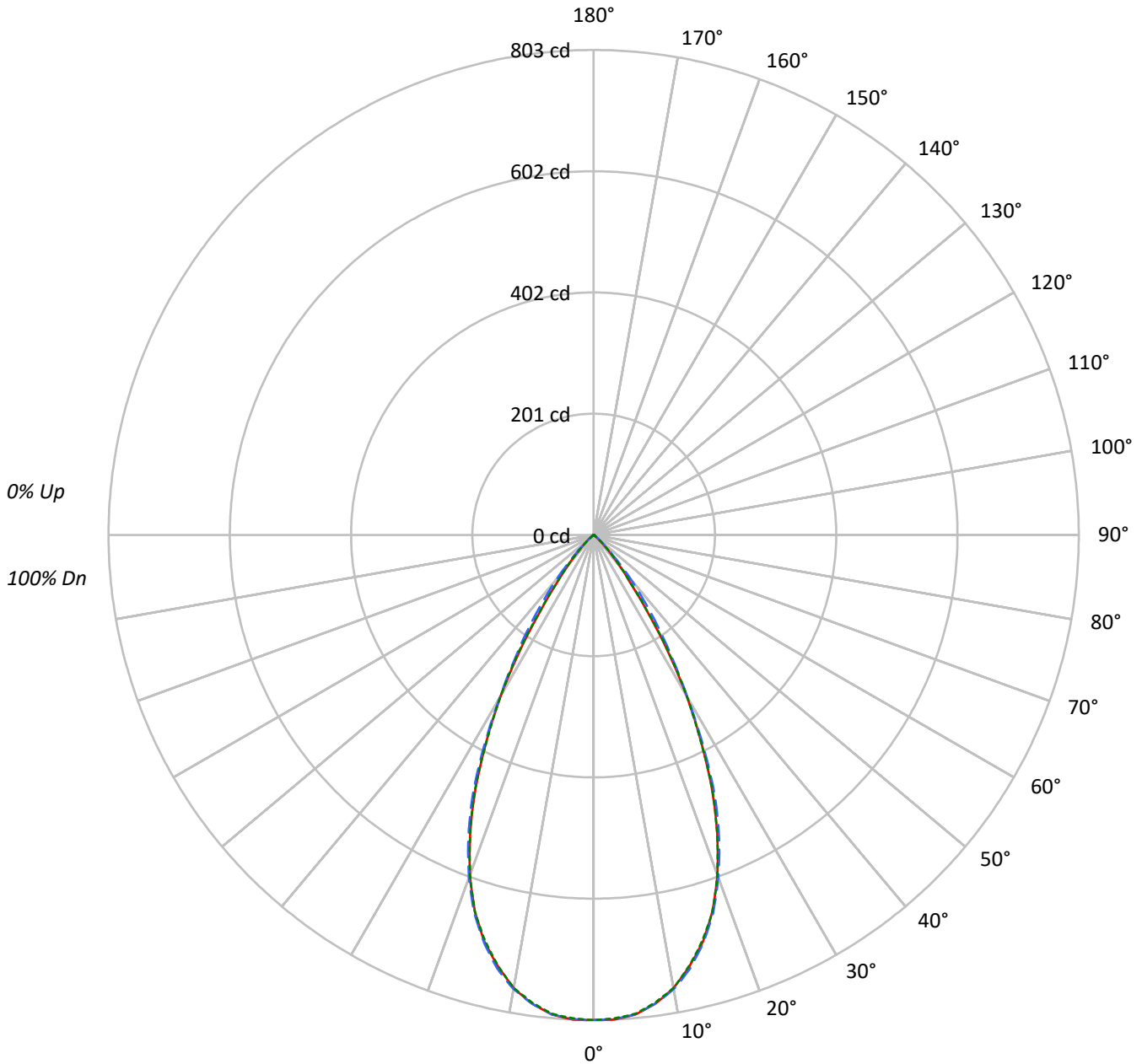
Lumens per Lamp: N/A
Luminaire Lumens: 617.0 lumens
Efficiency: N/A
Efficacy: 78.1 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.82
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

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	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°	311278	311278	311278
5°	309978	309978	309550
10°	299712	300538	299712
15°	279855	280698	278973
20°	247132	248905	246679
25°	197746	202321	198686
30°	137679	138619	137679
35°	72282	87940	74269
40°	34043	48106	34600
45°	13481	17536	13481
50°	4521	5787	4521
55°	1419	2905	1419
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: 17536 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.9	12.1
10°-20°	193.8	31.4
20°-30°	209.8	34.0
30°-40°	109.4	17.7
40°-50°	25.1	4.1
50°-60°	3.2	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°	478.5	77.6
0°-40°	587.9	95.3
0°-60°	616.3	99.9
0°-90°	617.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	617.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	803	803	803	803	803	
5°	797	796	797	796	796	75
15°	698	698	700	698	695	194
25°	462	467	473	466	465	208
35°	153	172	186	173	157	102
45°	25	27	32	27	25	22
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°	803.3	803.3	803.3	803.3	803.3
2.5°	803.3	803.3	802.3	803.3	801.2
5°	796.9	795.8	796.9	795.8	795.8
7.5°	783.0	783.0	783.0	782.0	780.9
10°	761.7	762.7	763.8	762.7	761.7
12.5°	731.7	731.7	736.0	730.7	730.7
15°	697.6	697.6	699.7	697.6	695.4
17.5°	653.8	654.8	657.0	652.7	653.8
20°	599.3	600.4	603.6	601.4	598.2
22.5°	534.1	538.4	542.7	543.7	534.1
25°	462.5	466.8	473.2	465.8	464.7
27.5°	383.5	384.6	391.0	386.7	381.4
30°	307.7	307.7	309.8	306.6	307.7
32.5°	227.5	240.4	242.5	240.4	232.9
35°	152.8	172.0	185.9	173.1	157.0
37.5°	98.3	110.0	134.6	111.1	99.3
40°	67.3	70.5	95.1	70.5	68.4
42.5°	42.7	45.9	57.7	45.9	42.7
45°	24.6	26.7	32.0	26.7	24.6
47.5°	13.9	15.0	18.2	15.0	15.0
50°	7.5	8.5	9.6	8.5	7.5
52.5°	4.3	5.3	6.4	5.3	4.3
55°	2.1	3.2	4.3	3.2	2.1
57.5°	1.1	1.1	2.1	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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