

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: P886296

Luminaire Tested: ML204LSFL9FS1E-TIR1D25NFL-TL2SDMBB-550LM-3000K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886296
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-94)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFL9FS1E-TIR1D25NFL-TL2SDMBB-550LM-3000K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE BLACK BAFFLED TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

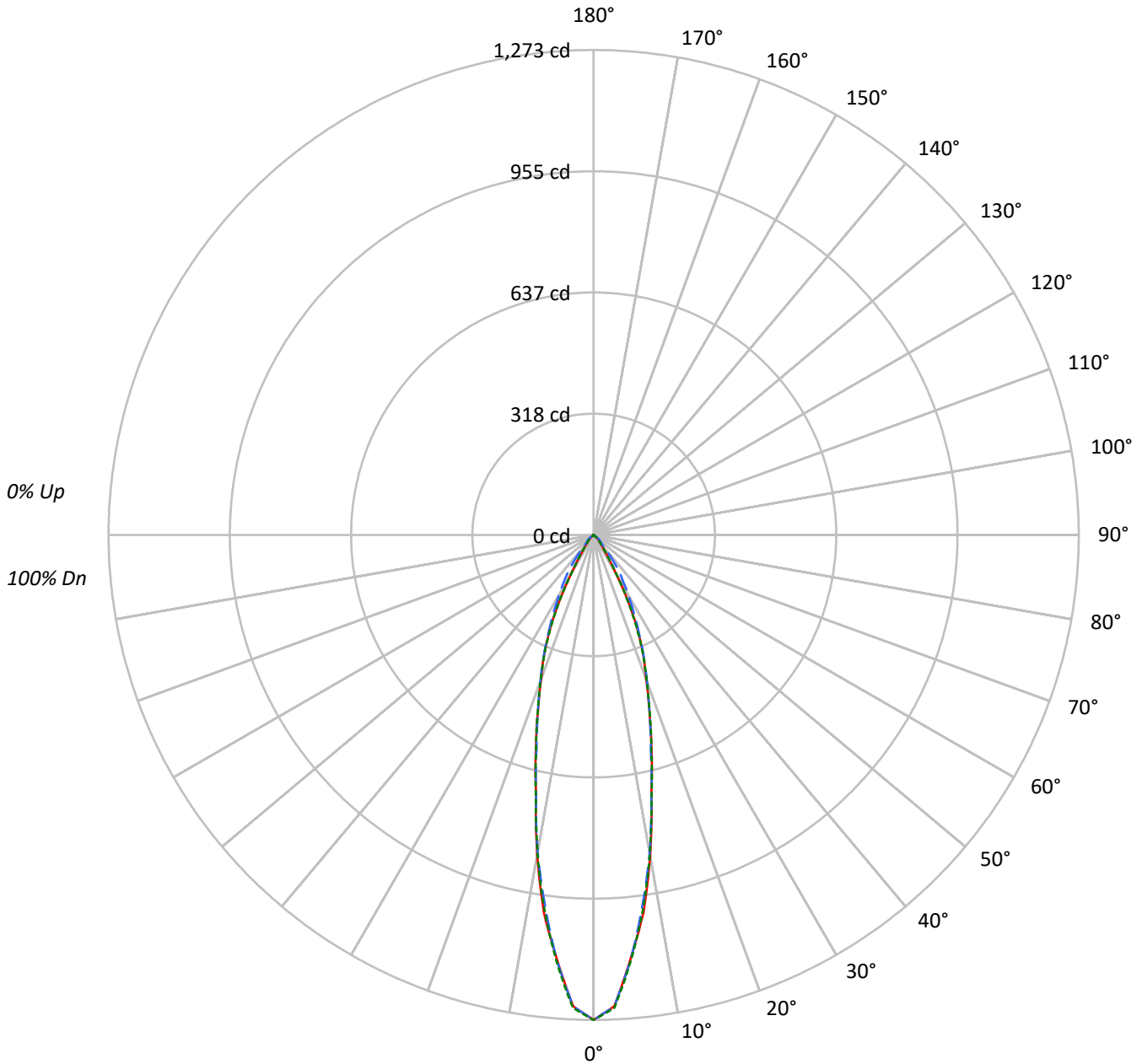
Lumens per Lamp: N/A
Luminaire Lumens: 451.8 lumens
Efficiency: N/A
Efficacy: 57.2 lumens/watt
Spacing Criteria (0/90/45): 0.45 / 0.45 / 0.54
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

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										
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	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95								
2	110	105	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90								
3	105	100	96	92	103	98	95	91	96	93	90	94	91	89	91	89	87	86								
4	101	95	90	86	99	94	89	86	91	88	85	90	86	84	88	85	83	82								
5	97	90	85	81	95	89	84	81	87	83	80	86	82	80	84	81	79	78								
6	93	86	81	77	92	85	80	77	84	79	76	82	79	76	81	78	75	74								
7	90	82	77	73	88	81	76	73	80	76	73	79	75	72	78	74	72	71								
8	86	78	73	70	85	78	73	70	77	72	69	76	72	69	75	71	69	68								
9	83	75	70	67	82	75	70	67	74	69	66	73	69	66	72	69	66	65								
10	80	72	67	64	79	72	67	64	71	67	64	70	66	63	69	66	63	62								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	493364	493364	493364
5°	433673	434879	436513
10°	335754	332882	334101
15°	235245	231916	234403
20°	165896	168452	167628
25°	114970	118519	112747
30°	53201	80540	53693
35°	21997	53833	22990
40°	12545	21954	13101
45°	7946	13591	8494
50°	603	11213	603
55°	676	2770	676
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: 13591 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.4	21.8
10°-20°	163.9	36.3
20°-30°	124.6	27.6
30°-40°	48.5	10.7
40°-50°	14.4	3.2
50°-60°	2.0	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°	386.8	85.6
0°-40°	435.3	96.4
0°-60°	451.8	100.0
0°-90°	451.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	451.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1273	1273	1273	1273	1273	
5°	1115	1121	1118	1116	1122	99
15°	586	582	578	586	584	164
25°	269	279	277	277	264	119
35°	46	62	114	64	49	35
45°	14	19	25	19	16	10
55°	1	1	4	1	1	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°	1273.2	1273.2	1273.2	1273.2	1273.2
2.5°	1238.0	1239.0	1238.0	1243.2	1243.2
5°	1114.9	1121.1	1118.0	1115.9	1122.2
7.5°	1000.1	986.7	980.5	984.6	991.8
10°	853.3	849.1	846.0	850.1	849.1
12.5°	699.1	702.3	699.1	704.3	701.2
15°	586.4	582.3	578.1	586.4	584.3
17.5°	486.1	490.2	486.1	488.2	488.2
20°	402.3	409.6	408.5	409.6	406.5
22.5°	340.3	339.2	341.3	340.3	337.2
25°	268.9	279.2	277.2	277.2	263.7
27.5°	192.4	214.1	225.5	217.2	190.3
30°	118.9	155.1	180.0	150.0	120.0
32.5°	75.5	99.3	143.8	97.2	76.5
35°	46.5	62.1	113.8	64.1	48.6
37.5°	33.1	44.5	78.6	44.5	33.1
40°	24.8	31.0	43.4	31.0	25.9
42.5°	19.7	23.8	29.0	23.8	20.7
45°	14.5	18.6	24.8	18.6	15.5
47.5°	4.1	12.4	21.7	12.4	6.2
50°	1.0	2.1	18.6	4.1	1.0
52.5°	1.0	1.0	13.4	1.0	1.0
55°	1.0	1.0	4.1	1.0	1.0
57.5°	0.0	0.0	1.0	0.0	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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