

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: P886428

Luminaire Tested: ML204LSFL9FS1E-TIR1D55WFL-TL2SDMWB-550LM-4000K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886428
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-104)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFL9FS1E-TIR1D55WFL-TL2SDMWB-550LM-4000K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE WHITE BAFFLED TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

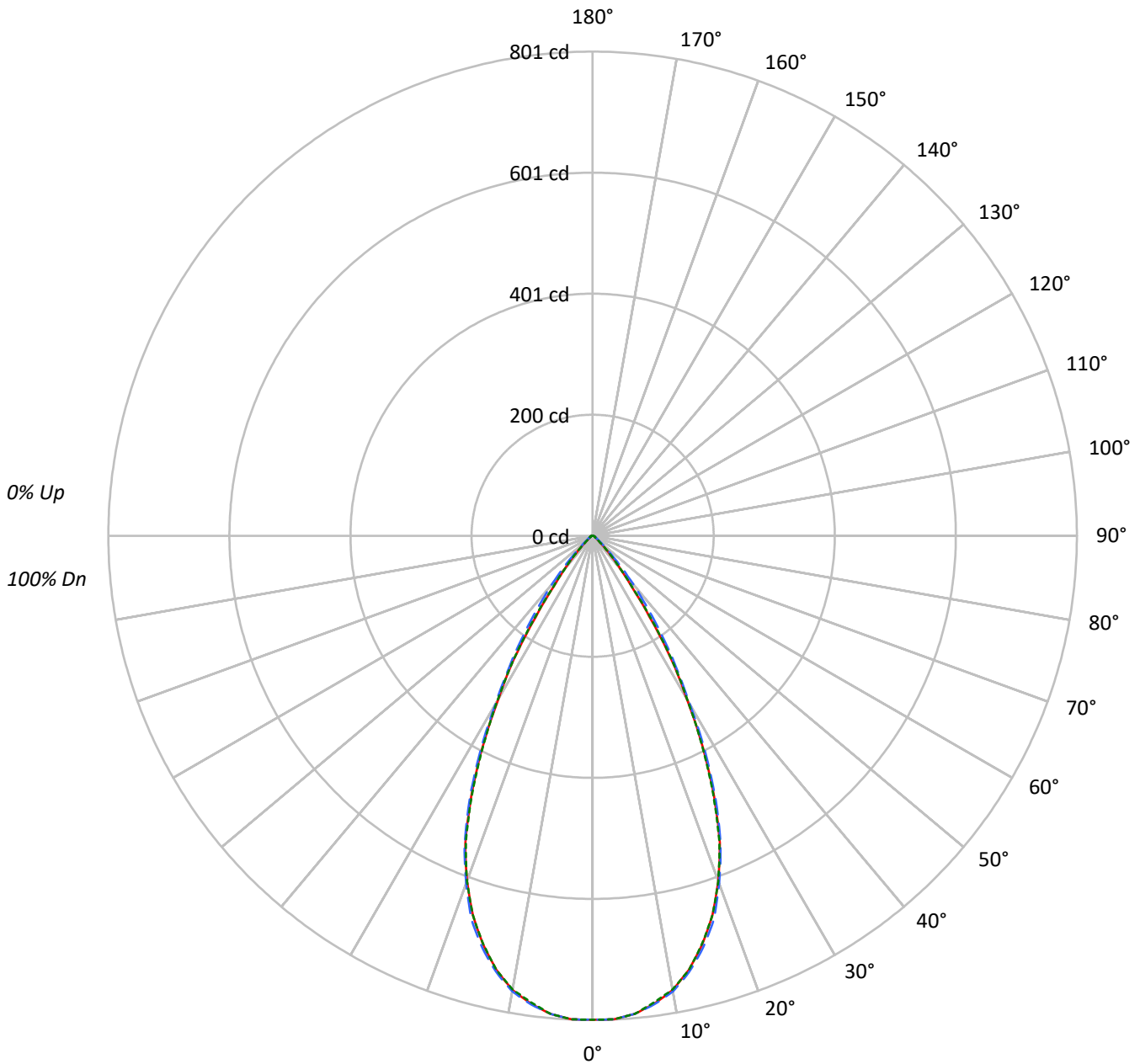
Lumens per Lamp: N/A
Luminaire Lumens: 646.3 lumens
Efficiency: N/A
Efficacy: 81.8 lumens/watt
Spacing Criteria (0/90/45): 0.87 / 0.87 / 0.83
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

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									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	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94																			
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	93	91	89	87																			
3	103	96	92	88	101	95	91	87	92	89	86	90	87	84	88	85	83	81																			
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	78	76																			
5	93	85	79	75	91	84	79	75	82	77	74	80	76	73	79	75	73	71																			
6	88	80	74	70	87	79	74	70	78	73	69	76	72	69	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	67	63	60	59																			
9	77	67	62	58	76	67	61	58	66	61	57	65	60	57	64	60	57	56																			
10	73	64	58	54	72	63	58	54	63	58	54	62	57	54	61	57	54	53																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	310271	310271	310271
5°	308889	308889	308889
10°	300262	301167	299830
15°	280898	283105	280457
20°	250472	252287	250472
25°	203047	205869	201636
30°	139335	143317	140364
35°	77864	92481	81506
40°	35763	51950	36320
45°	15728	23619	15728
50°	7294	10670	7294
55°	4459	5945	4459
60°	3410	4262	3410
65°	4034	4034	4034
70°	3739	3739	3739
75°	3294	3294	3294
80°	4909	4909	4909
85°	4891	4891	4891

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 23619 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.8	11.6
10°-20°	195.4	30.2
20°-30°	214.6	33.2
30°-40°	116.1	18.0
40°-50°	30.1	4.7
50°-60°	7.5	1.2
60°-70°	4.3	0.7
70°-80°	2.8	0.4
80°-90°	0.9	0.1
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°	484.8	75.0
0°-40°	600.9	93.0
0°-60°	638.4	98.8
0°-90°	646.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	646.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	801	801	801	801	801	
5°	794	793	794	793	794	75
15°	700	704	706	700	699	195
25°	475	478	482	479	472	213
35°	165	187	196	186	172	108
45°	29	32	43	33	29	26
55°	7	8	9	8	7	6
65°	4	4	4	4	4	4
75°	2	2	2	2	2	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°	800.7	800.7	800.7	800.7	800.7
2.5°	800.7	800.7	800.7	799.6	800.7
5°	794.1	793.0	794.1	793.0	794.1
7.5°	780.8	781.9	781.9	781.9	778.6
10°	763.1	763.1	765.4	763.1	762.0
12.5°	735.5	737.7	738.9	734.4	735.5
15°	700.2	703.5	705.7	700.2	699.1
17.5°	658.2	660.4	666.0	662.6	658.2
20°	607.4	611.8	611.8	609.6	607.4
22.5°	550.0	553.3	553.3	551.1	547.8
25°	474.9	478.2	481.5	479.3	471.6
27.5°	395.4	394.3	403.1	397.6	392.1
30°	311.4	315.9	320.3	315.9	313.7
32.5°	243.0	249.6	255.1	250.7	245.2
35°	164.6	186.6	195.5	185.5	172.3
37.5°	106.0	123.7	143.6	123.7	108.2
40°	70.7	77.3	102.7	79.5	71.8
42.5°	47.5	51.9	68.5	53.0	48.6
45°	28.7	32.0	43.1	33.1	28.7
47.5°	17.7	19.9	26.5	19.9	17.7
50°	12.1	14.4	17.7	14.4	12.1
52.5°	8.8	9.9	12.1	9.9	8.8
55°	6.6	7.7	8.8	7.7	6.6
57.5°	5.5	5.5	6.6	5.5	5.5
60°	4.4	5.5	5.5	5.5	4.4
62.5°	4.4	4.4	4.4	4.4	4.4
65°	4.4	4.4	4.4	4.4	4.4
67.5°	3.3	4.4	4.4	4.4	3.3
70°	3.3	3.3	3.3	3.3	3.3
72.5°	3.3	3.3	3.3	3.3	3.3
75°	2.2	2.2	2.2	2.2	2.2
77.5°	2.2	2.2	2.2	2.2	2.2
80°	2.2	2.2	2.2	2.2	2.2
82.5°	1.1	1.1	1.1	1.1	1.1
85°	1.1	1.1	1.1	1.1	1.1
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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