

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: P886424

Luminaire Tested: ML204LSFL9FS1E-TIR1D55WFL-TL2SDMW-550LM-5000K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886424
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-101)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFL9FS1E-TIR1D55WFL-TL2SDMW-550LM-5000K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE WHITE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 674.8 lumens
Efficiency: N/A
Efficacy: 85.4 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

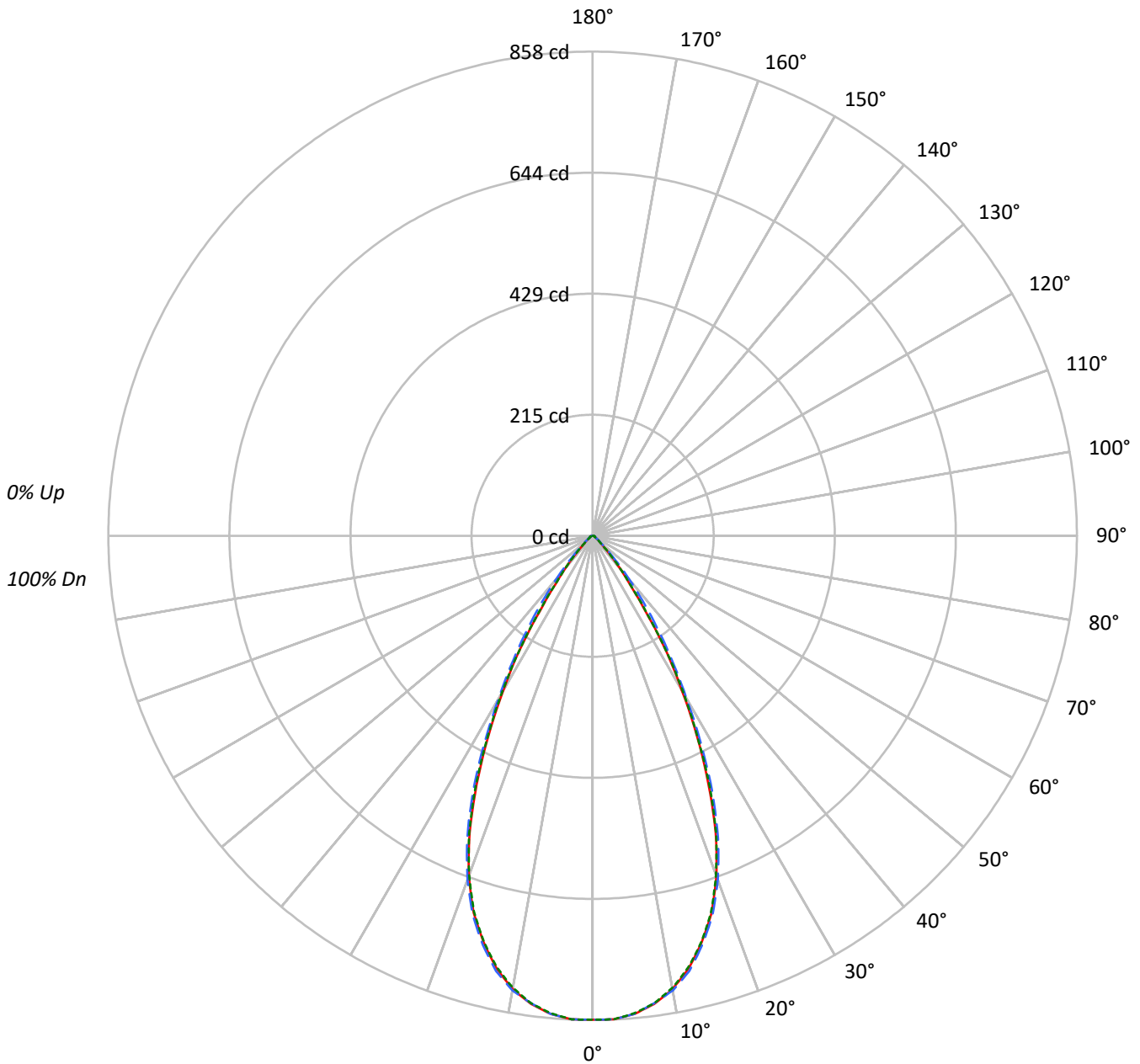
Input Watts (W): 7.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	102	98	95	98	95	93	95	93	91	93	91	89	87																			
3	103	97	92	88	101	95	91	87	93	89	86	90	87	84	88	85	83	81																			
4	98	90	85	81	96	89	84	80	87	83	80	85	82	79	83	80	78	76																			
5	93	85	79	75	92	84	79	75	82	78	74	81	77	73	79	76	73	71																			
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67																			
7	85	76	70	66	83	75	69	65	74	69	65	72	68	65	71	67	64	63																			
8	81	71	66	62	79	71	65	61	70	65	61	69	64	61	68	64	61	59																			
9	77	68	62	58	76	67	62	58	66	61	58	65	61	58	65	60	57	56																			
10	74	64	59	55	73	64	58	55	63	58	55	62	58	54	61	57	54	53																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	332319	332319	332319
5°	330866	330866	330399
10°	320959	321904	320054
15°	299272	301157	298831
20°	264493	267380	263545
25°	207665	214634	209675
30°	141438	148686	144033
35°	76965	93995	79141
40°	37635	50534	37635
45°	15947	22304	16550
50°	8380	10489	8380
55°	5472	6283	5472
60°	4495	4495	4495
65°	4218	4218	4218
70°	3965	3965	3965
75°	3444	5240	3444
80°	5132	5132	5132
85°	5335	5335	5335

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 22304 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.1	11.9
10°-20°	207.8	30.8
20°-30°	223.0	33.1
30°-40°	116.8	17.3
40°-50°	30.0	4.4
50°-60°	8.2	1.2
60°-70°	4.8	0.7
70°-80°	3.1	0.5
80°-90°	1.0	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°	510.9	75.7
0°-40°	627.7	93.0
0°-60°	665.9	98.7
0°-90°	674.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	674.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	858	858	858	858	858	
5°	851	851	851	849	849	80
15°	746	747	751	746	745	207
25°	486	495	502	494	490	219
35°	163	184	199	182	167	108
45°	29	32	41	32	30	27
55°	8	8	9	8	8	8
65°	5	5	5	5	5	5
75°	2	4	4	4	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°	857.6	857.6	857.6	857.6	857.6
2.5°	857.6	857.6	857.6	856.4	857.6
5°	850.6	850.6	850.6	849.4	849.4
7.5°	836.7	836.7	835.5	836.7	835.5
10°	815.7	815.7	818.1	815.7	813.4
12.5°	785.5	786.7	790.2	785.5	783.2
15°	746.0	747.2	750.7	746.0	744.9
17.5°	700.7	705.4	705.4	701.9	698.4
20°	641.4	643.8	648.4	643.8	639.1
22.5°	569.4	581.0	581.0	575.2	571.7
25°	485.7	495.0	502.0	493.9	490.4
27.5°	400.9	409.0	416.0	409.0	403.2
30°	316.1	324.2	332.3	327.7	321.9
32.5°	242.9	252.2	261.5	253.3	244.0
35°	162.7	183.6	198.7	182.4	167.3
37.5°	108.1	119.7	145.3	122.0	109.2
40°	74.4	77.9	99.9	77.9	74.4
42.5°	47.6	52.3	65.1	52.3	48.8
45°	29.1	32.5	40.7	32.5	30.2
47.5°	19.8	20.9	24.4	20.9	19.8
50°	13.9	13.9	17.4	15.1	13.9
52.5°	10.5	10.5	12.8	11.6	10.5
55°	8.1	8.1	9.3	8.1	8.1
57.5°	5.8	7.0	7.0	7.0	5.8
60°	5.8	5.8	5.8	5.8	5.8
62.5°	4.6	5.8	5.8	5.8	4.6
65°	4.6	4.6	4.6	4.6	4.6
67.5°	4.6	4.6	4.6	4.6	4.6
70°	3.5	3.5	3.5	3.5	3.5
72.5°	3.5	3.5	3.5	3.5	3.5
75°	2.3	3.5	3.5	3.5	2.3
77.5°	2.3	2.3	2.3	2.3	2.3
80°	2.3	2.3	2.3	2.3	2.3
82.5°	1.2	1.2	1.2	1.2	1.2
85°	1.2	1.2	1.2	1.2	1.2
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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