

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: P886420

Luminaire Tested: ML204LSFL9FS1E-TIR1D55WFL-TL2SDMW-550LM-2700K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886420
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-2700K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE WHITE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 580.9 lumens
Efficiency: N/A
Efficacy: 73.5 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

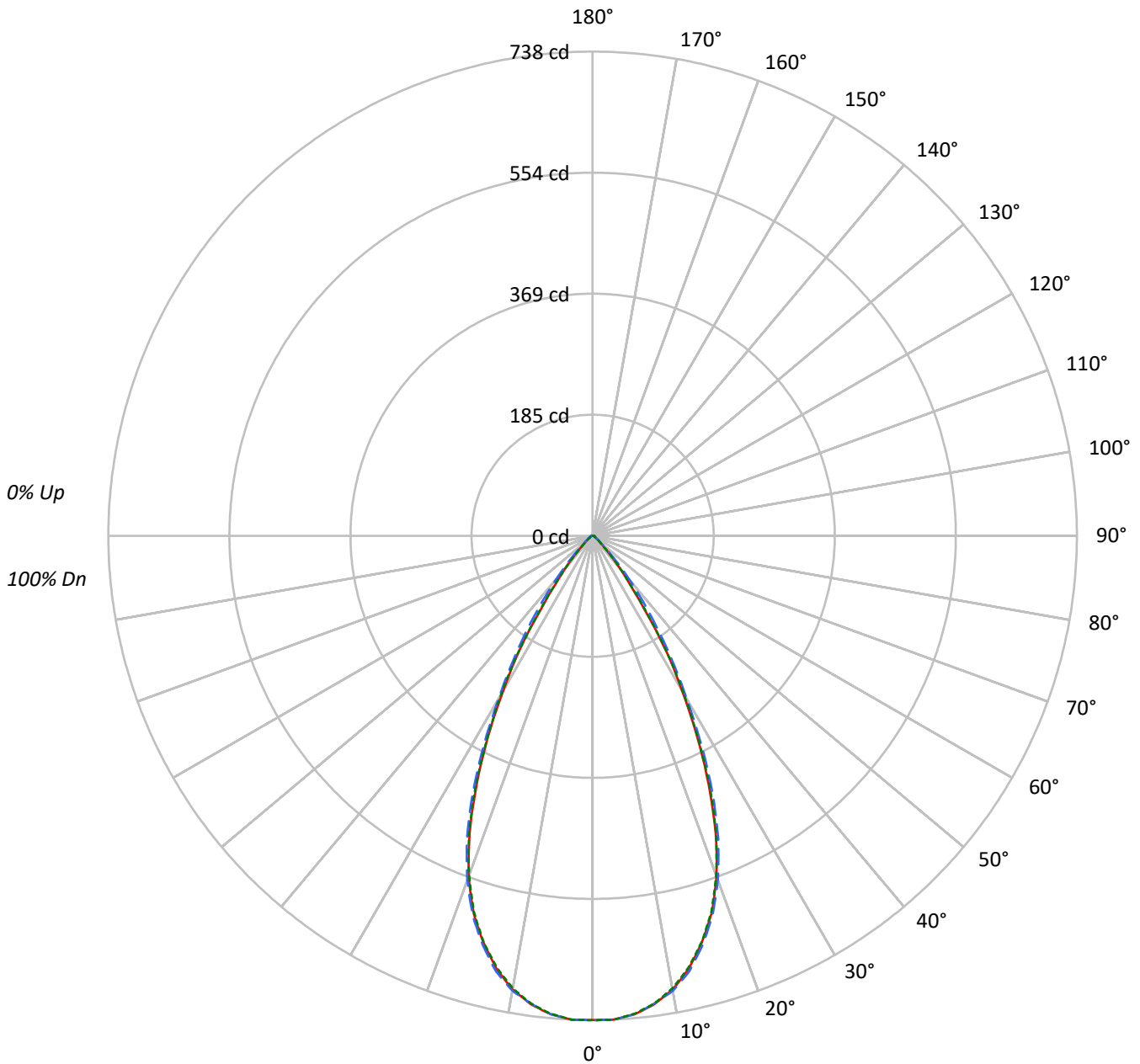
Input Watts (W): 7.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	286052	286052	286052
5°	284811	284811	284422
10°	276300	277087	275513
15°	257631	259235	257229
20°	227710	230184	226885
25°	178762	184748	180472
30°	121750	128014	123987
35°	66227	80939	68119
40°	32374	43503	32374
45°	13700	19180	14248
50°	7234	9043	7234
55°	4729	5405	4729
60°	3875	3875	3875
65°	3668	3668	3668
70°	3399	3399	3399
75°	2994	4492	2994
80°	4463	4463	4463
85°	4446	4446	4446

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 19180 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.9	11.9
10°-20°	178.9	30.8
20°-30°	192.0	33.1
30°-40°	100.5	17.3
40°-50°	25.8	4.4
50°-60°	7.1	1.2
60°-70°	4.1	0.7
70°-80°	2.7	0.5
80°-90°	0.8	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°	439.8	75.7
0°-40°	540.3	93.0
0°-60°	573.2	98.7
0°-90°	580.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	580.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	738	738	738	738	738	
5°	732	732	732	731	731	69
15°	642	643	646	642	641	178
25°	418	426	432	425	422	189
35°	140	158	171	157	144	93
45°	25	28	35	28	26	23
55°	7	7	8	7	7	7
65°	4	4	4	4	4	4
75°	2	3	3	3	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°	738.2	738.2	738.2	738.2	738.2
2.5°	738.2	738.2	738.2	737.2	738.2
5°	732.2	732.2	732.2	731.2	731.2
7.5°	720.2	720.2	719.2	720.2	719.2
10°	702.2	702.2	704.2	702.2	700.2
12.5°	676.2	677.2	680.2	676.2	674.2
15°	642.2	643.2	646.2	642.2	641.2
17.5°	603.2	607.2	607.2	604.2	601.2
20°	552.2	554.2	558.2	554.2	550.2
22.5°	490.2	500.2	500.2	495.2	492.2
25°	418.1	426.1	432.1	425.1	422.1
27.5°	345.1	352.1	358.1	352.1	347.1
30°	272.1	279.1	286.1	282.1	277.1
32.5°	209.1	217.1	225.1	218.1	210.1
35°	140.0	158.0	171.1	157.0	144.0
37.5°	93.0	103.0	125.0	105.0	94.0
40°	64.0	67.0	86.0	67.0	64.0
42.5°	41.0	45.0	56.0	45.0	42.0
45°	25.0	28.0	35.0	28.0	26.0
47.5°	17.0	18.0	21.0	18.0	17.0
50°	12.0	12.0	15.0	13.0	12.0
52.5°	9.0	9.0	11.0	10.0	9.0
55°	7.0	7.0	8.0	7.0	7.0
57.5°	5.0	6.0	6.0	6.0	5.0
60°	5.0	5.0	5.0	5.0	5.0
62.5°	4.0	5.0	5.0	5.0	4.0
65°	4.0	4.0	4.0	4.0	4.0
67.5°	4.0	4.0	4.0	4.0	4.0
70°	3.0	3.0	3.0	3.0	3.0
72.5°	3.0	3.0	3.0	3.0	3.0
75°	2.0	3.0	3.0	3.0	2.0
77.5°	2.0	2.0	2.0	2.0	2.0
80°	2.0	2.0	2.0	2.0	2.0
82.5°	1.0	1.0	1.0	1.0	1.0
85°	1.0	1.0	1.0	1.0	1.0
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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