

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: P886422

Luminaire Tested: ML204LSFL9FS1E-TIR1D55WFL-TL2SDMW-550LM-3500K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886422
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-3500K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE WHITE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 620.2 lumens
Efficiency: N/A
Efficacy: 78.5 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

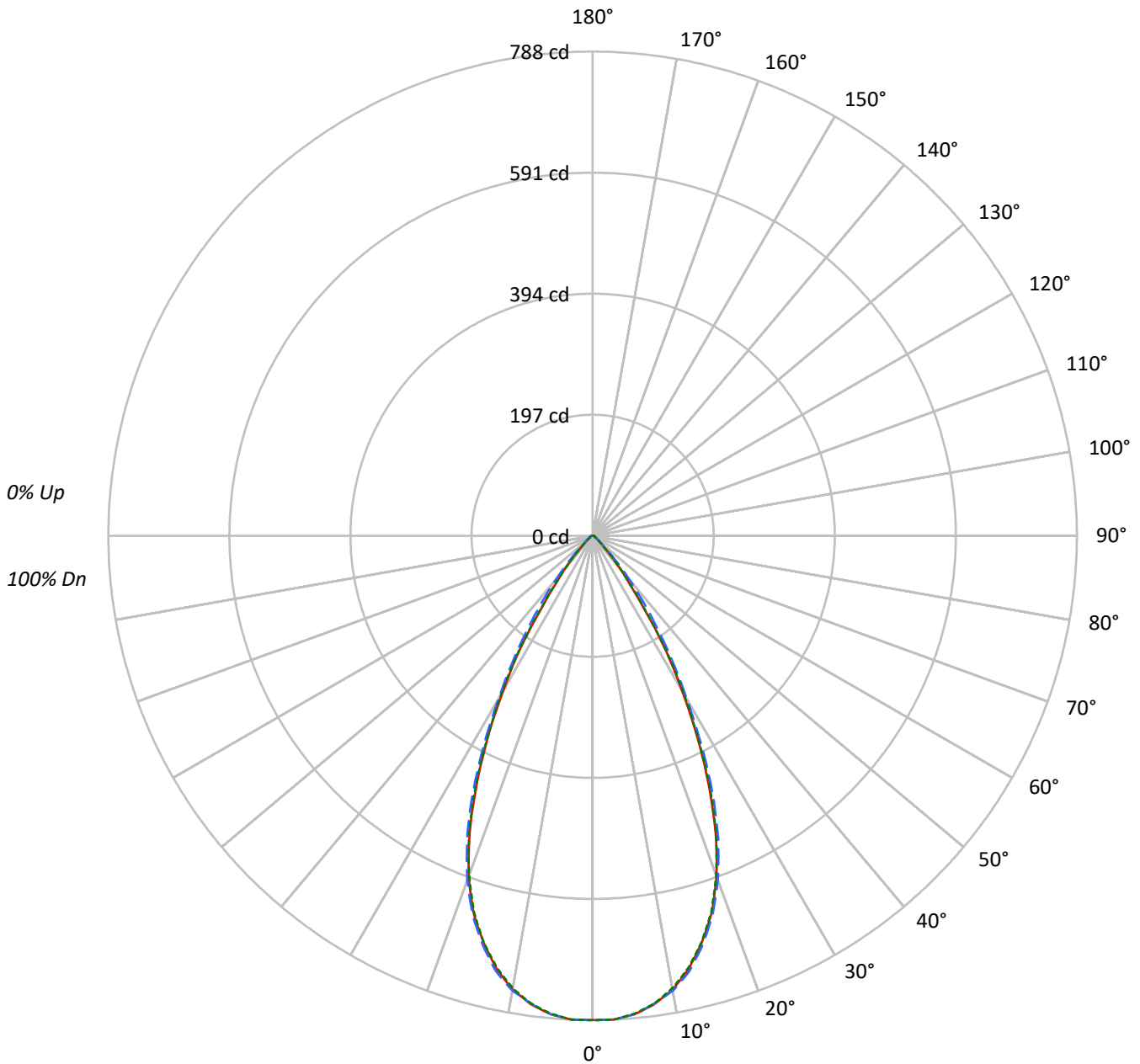
Input Watts (W): 7.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	305427	305427	305427
5°	304104	304104	303676
10°	295029	295856	294164
15°	275082	276807	274640
20°	243132	245771	242225
25°	190862	197275	192701
30°	129983	136695	132354
35°	70721	86379	72755
40°	34600	46487	34600
45°	14632	20495	15235
50°	7716	9645	7716
55°	5067	5742	5067
60°	4107	4107	4107
65°	3943	3943	3943
70°	3626	3626	3626
75°	3144	4791	3144
80°	4686	4686	4686
85°	4891	4891	4891

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 20495 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.6	11.9
10°-20°	191.0	30.8
20°-30°	205.0	33.1
30°-40°	107.3	17.3
40°-50°	27.6	4.4
50°-60°	7.5	1.2
60°-70°	4.4	0.7
70°-80°	2.9	0.5
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°	469.6	75.7
0°-40°	576.9	93.0
0°-60°	612.1	98.7
0°-90°	620.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	620.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	788	788	788	788	788	
5°	782	782	782	781	781	74
15°	686	687	690	686	685	191
25°	446	455	461	454	451	202
35°	150	169	183	168	154	99
45°	27	30	37	30	28	24
55°	8	8	8	8	8	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°	788.2	788.2	788.2	788.2	788.2
2.5°	788.2	788.2	788.2	787.1	788.2
5°	781.8	781.8	781.8	780.7	780.7
7.5°	769.0	769.0	767.9	769.0	767.9
10°	749.8	749.8	751.9	749.8	747.6
12.5°	722.0	723.1	726.3	722.0	719.9
15°	685.7	686.8	690.0	685.7	684.6
17.5°	644.0	648.3	648.3	645.1	641.9
20°	589.6	591.7	596.0	591.7	587.4
22.5°	523.3	534.0	534.0	528.7	525.5
25°	446.4	455.0	461.4	453.9	450.7
27.5°	368.5	376.0	382.4	376.0	370.6
30°	290.5	298.0	305.5	301.2	295.8
32.5°	223.2	231.8	240.3	232.8	224.3
35°	149.5	168.8	182.6	167.7	153.8
37.5°	99.3	110.0	133.5	112.1	100.4
40°	68.4	71.6	91.9	71.6	68.4
42.5°	43.8	48.1	59.8	48.1	44.9
45°	26.7	29.9	37.4	29.9	27.8
47.5°	18.2	19.2	22.4	19.2	18.2
50°	12.8	12.8	16.0	13.9	12.8
52.5°	9.6	9.6	11.7	10.7	9.6
55°	7.5	7.5	8.5	7.5	7.5
57.5°	5.3	6.4	6.4	6.4	5.3
60°	5.3	5.3	5.3	5.3	5.3
62.5°	4.3	5.3	5.3	5.3	4.3
65°	4.3	4.3	4.3	4.3	4.3
67.5°	4.3	4.3	4.3	4.3	4.3
70°	3.2	3.2	3.2	3.2	3.2
72.5°	3.2	3.2	3.2	3.2	3.2
75°	2.1	3.2	3.2	3.2	2.1
77.5°	2.1	2.1	2.1	2.1	2.1
80°	2.1	2.1	2.1	2.1	2.1
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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