

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: P886427

Luminaire Tested: ML204LSFL9FS1E-TIR1D55WFL-TL2SDMWB-550LM-3500K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886427
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-3500K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE WHITE BAFFLED TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

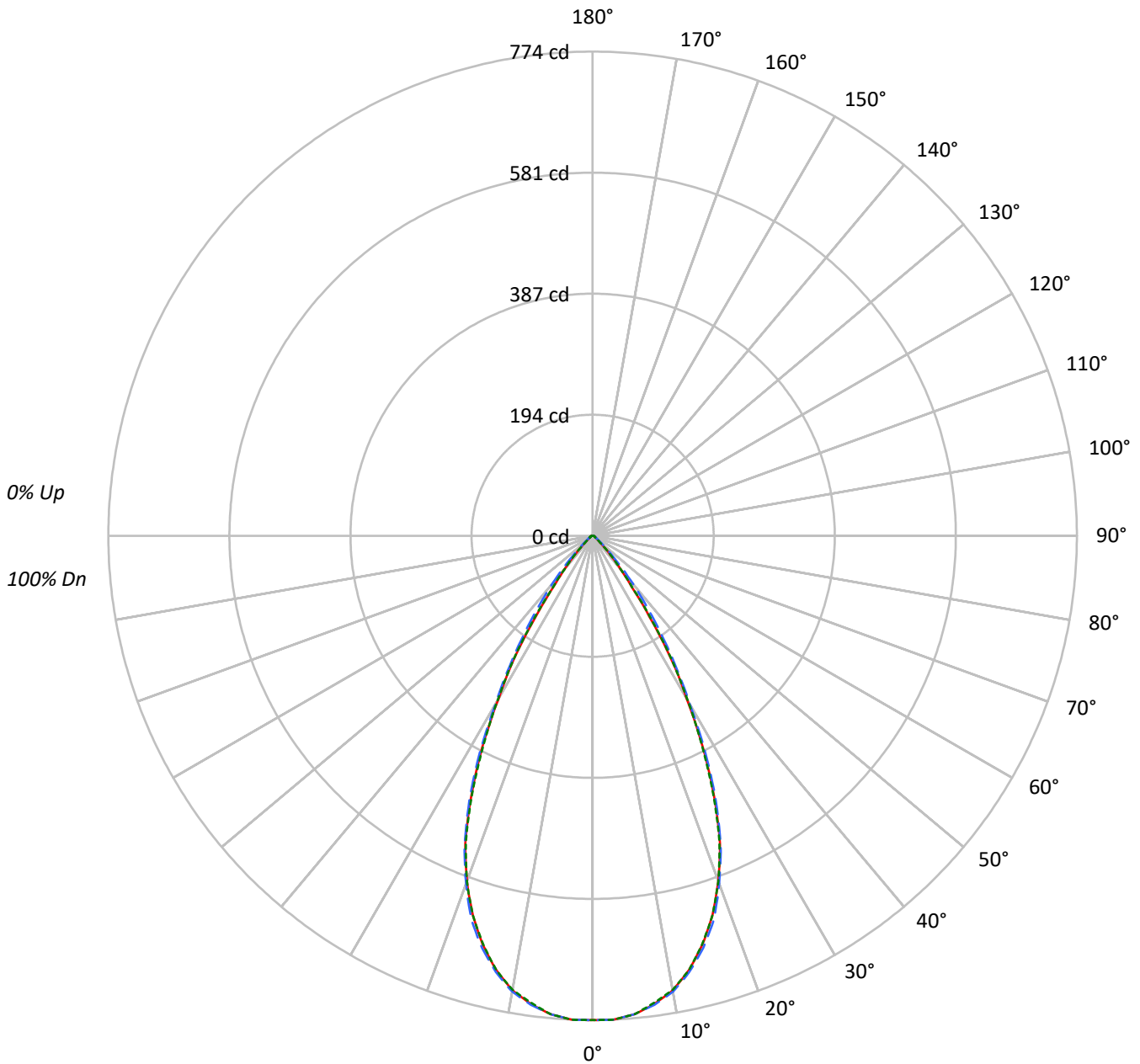
Lumens per Lamp: N/A
Luminaire Lumens: 625.0 lumens
Efficiency: N/A
Efficacy: 79.1 lumens/watt
Spacing Criteria (0/90/45): 0.87 / 0.87 / 0.83
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

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					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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94					94			
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	93	91	89	87					87			
3	103	96	92	88	101	95	91	87	92	89	86	90	87	84	88	85	83	81					81			
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	78	76					76			
5	93	85	79	75	91	84	79	75	82	77	74	80	76	73	79	75	73	71					71			
6	88	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67					67			
7	84	75	69	65	83	75	69	65	73	68	65	72	68	64	71	67	64	63					63			
8	80	71	65	61	79	71	65	61	69	64	61	68	64	61	67	63	60	59					59			
9	77	67	62	58	76	67	61	58	66	61	57	65	60	57	64	60	57	56					56			
10	73	64	58	54	72	63	58	54	63	58	54	62	57	54	61	57	54	53					53			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	300002	300002	300002
5°	298659	298659	298659
10°	290347	291212	289953
15°	271631	273758	271190
20°	242225	243957	242225
25°	196335	199071	194967
30°	134771	138574	135710
35°	75262	89406	78810
40°	34549	50230	35106
45°	15235	22797	15235
50°	7053	10309	7053
55°	4324	5742	4324
60°	3332	4107	3332
65°	3943	3943	3943
70°	3626	3626	3626
75°	3144	3144	3144
80°	4686	4686	4686
85°	4891	4891	4891

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 22797 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.3	11.6
10°-20°	188.9	30.2
20°-30°	207.6	33.2
30°-40°	112.2	18.0
40°-50°	29.1	4.7
50°-60°	7.2	1.2
60°-70°	4.1	0.7
70°-80°	2.7	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°	468.8	75.0
0°-40°	581.0	93.0
0°-60°	617.3	98.8
0°-90°	625.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	625.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	774	774	774	774	774	
5°	768	767	768	767	768	72
15°	677	680	682	677	676	188
25°	459	462	466	464	456	206
35°	159	180	189	179	167	104
45°	28	31	42	32	28	25
55°	6	8	8	8	6	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°	774.2	774.2	774.2	774.2	774.2
2.5°	774.2	774.2	774.2	773.2	774.2
5°	767.8	766.8	767.8	766.8	767.8
7.5°	755.0	756.1	756.1	756.1	752.9
10°	737.9	737.9	740.1	737.9	736.9
12.5°	711.2	713.4	714.4	710.2	711.2
15°	677.1	680.3	682.4	677.1	676.0
17.5°	636.5	638.6	644.0	640.8	636.5
20°	587.4	591.6	591.6	589.5	587.4
22.5°	531.8	535.0	535.0	532.9	529.7
25°	459.2	462.4	465.6	463.5	456.0
27.5°	382.3	381.2	389.8	384.5	379.1
30°	301.2	305.4	309.7	305.4	303.3
32.5°	234.9	241.4	246.7	242.4	237.1
35°	159.1	180.5	189.0	179.4	166.6
37.5°	102.5	119.6	138.8	119.6	104.7
40°	68.3	74.8	99.3	76.9	69.4
42.5°	45.9	50.2	66.2	51.3	47.0
45°	27.8	31.0	41.6	32.0	27.8
47.5°	17.1	19.2	25.6	19.2	17.1
50°	11.7	13.9	17.1	13.9	11.7
52.5°	8.5	9.6	11.7	9.6	8.5
55°	6.4	7.5	8.5	7.5	6.4
57.5°	5.3	5.3	6.4	5.3	5.3
60°	4.3	5.3	5.3	5.3	4.3
62.5°	4.3	4.3	4.3	4.3	4.3
65°	4.3	4.3	4.3	4.3	4.3
67.5°	3.2	4.3	4.3	4.3	3.2
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	2.1	2.1	2.1	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



Report Generated By 670245859 / DESKTOP-T8S5UU9

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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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