

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: P886437

Luminaire Tested: ML204LSFL9FS1E-TIR1D55WFL-TL2SDSLB-550LM-3500K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886437
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-105)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFL9FS1E-TIR1D55WFL-TL2SDSLB-550LM-3500K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, METALLIC SILVER BAFFLED TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 612.7 lumens
Efficiency: N/A
Efficacy: 77.6 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.86 / 0.82
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

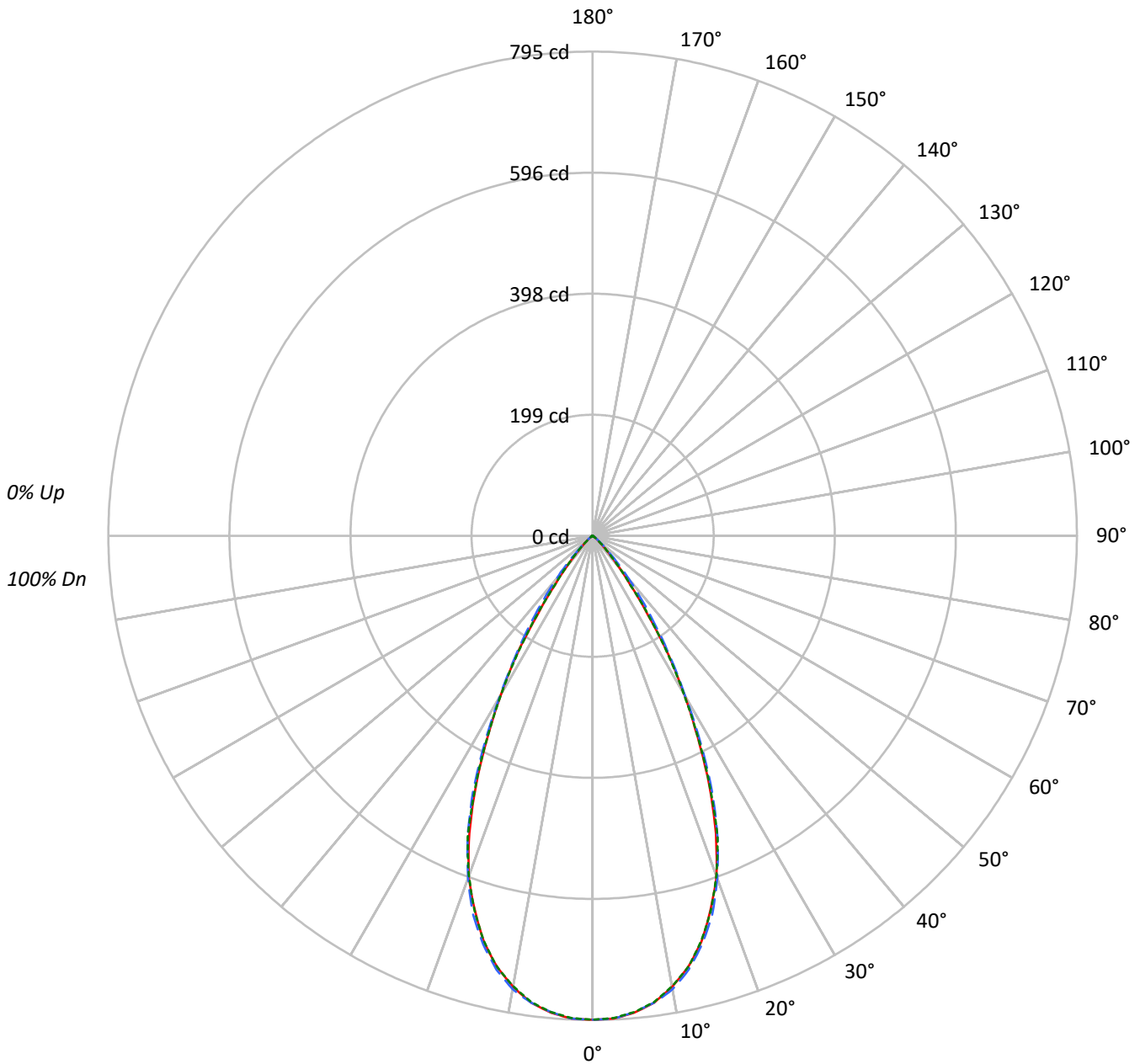
Input Watts (W): 7.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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					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								
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94								
2	108	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88								
3	103	97	93	89	101	96	92	88	93	90	87	91	88	85	89	86	84	82								
4	98	91	86	82	97	90	85	82	88	84	81	86	83	80	84	81	79	77								
5	94	86	80	76	92	85	80	76	83	79	75	82	78	75	80	77	74	72								
6	89	81	75	71	88	80	75	71	79	74	70	77	73	70	76	72	69	68								
7	85	76	71	67	84	76	70	66	74	70	66	73	69	66	72	68	65	64								
8	81	72	67	63	80	72	66	63	71	66	62	70	65	62	69	65	62	60								
9	78	68	63	59	77	68	63	59	67	62	59	66	62	59	65	61	58	57								
10	74	65	59	56	73	65	59	56	64	59	56	63	59	55	62	58	55	54								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	307907	307907	307907
5°	305777	305349	305349
10°	295856	297547	295462
15°	276807	278491	276365
20°	245318	246637	244864
25°	194069	198644	195009
30°	134278	136202	133831
35°	74269	85385	75783
40°	33487	46487	34043
45°	14029	18742	14632
50°	5787	7053	5787
55°	2162	2905	2162
60°	852	852	852
65°	1009	1009	1009
70°	1246	0	1246
75°	0	0	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 18742 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.0	12.1
10°-20°	191.9	31.3
20°-30°	206.9	33.8
30°-40°	108.9	17.8
40°-50°	26.0	4.2
50°-60°	3.9	0.6
60°-70°	1.0	0.2
70°-80°	0.1	0.0
80°-90°	0.0	0.0
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°	472.8	77.2
0°-40°	581.7	94.9
0°-60°	611.6	99.8
0°-90°	612.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	612.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	795	795	795	795	795	
5°	786	786	785	785	785	74
15°	690	690	694	690	689	191
25°	454	458	465	459	456	205
35°	157	172	180	171	160	103
45°	26	28	34	28	27	23
55°	3	3	4	3	3	4
65°	1	1	1	1	1	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	794.6	794.6	794.6	794.6	794.6
2.5°	793.6	793.6	793.6	792.5	792.5
5°	786.1	786.1	785.0	785.0	785.0
7.5°	773.3	774.3	773.3	772.2	772.2
10°	751.9	754.1	756.2	755.1	750.9
12.5°	725.2	725.2	729.5	725.2	725.2
15°	690.0	690.0	694.2	690.0	688.9
17.5°	644.0	647.2	652.6	647.2	645.1
20°	594.9	594.9	598.1	598.1	593.8
22.5°	528.7	533.0	536.2	535.1	536.2
25°	453.9	458.2	464.6	459.3	456.1
27.5°	373.8	378.1	383.4	382.4	376.0
30°	300.1	305.5	304.4	303.3	299.1
32.5°	232.8	237.1	238.2	236.0	229.6
35°	157.0	172.0	180.5	170.9	160.2
37.5°	101.5	114.3	131.4	115.4	102.5
40°	66.2	70.5	91.9	74.8	67.3
42.5°	41.7	45.9	60.9	45.9	42.7
45°	25.6	27.8	34.2	27.8	26.7
47.5°	15.0	16.0	20.3	16.0	16.0
50°	9.6	9.6	11.7	9.6	9.6
52.5°	5.3	6.4	7.5	6.4	6.4
55°	3.2	3.2	4.3	3.2	3.2
57.5°	2.1	2.1	2.1	2.1	2.1
60°	1.1	1.1	1.1	1.1	1.1
62.5°	1.1	1.1	1.1	1.1	1.1
65°	1.1	1.1	1.1	1.1	1.1
67.5°	1.1	1.1	1.1	1.1	1.1
70°	1.1	0.0	0.0	0.0	1.1
72.5°	1.1	0.0	0.0	0.0	1.1
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
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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