

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: P886412

Luminaire Tested: ML204LSFL9FS1E-TIR1D55WFL-TL2SDMB-550LM-3500K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886412
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-103)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFL9FS1E-TIR1D55WFL-TL2SDMB-550LM-3500K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE BLACK TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 595.5 lumens
Efficiency: N/A
Efficacy: 75.4 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.82
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

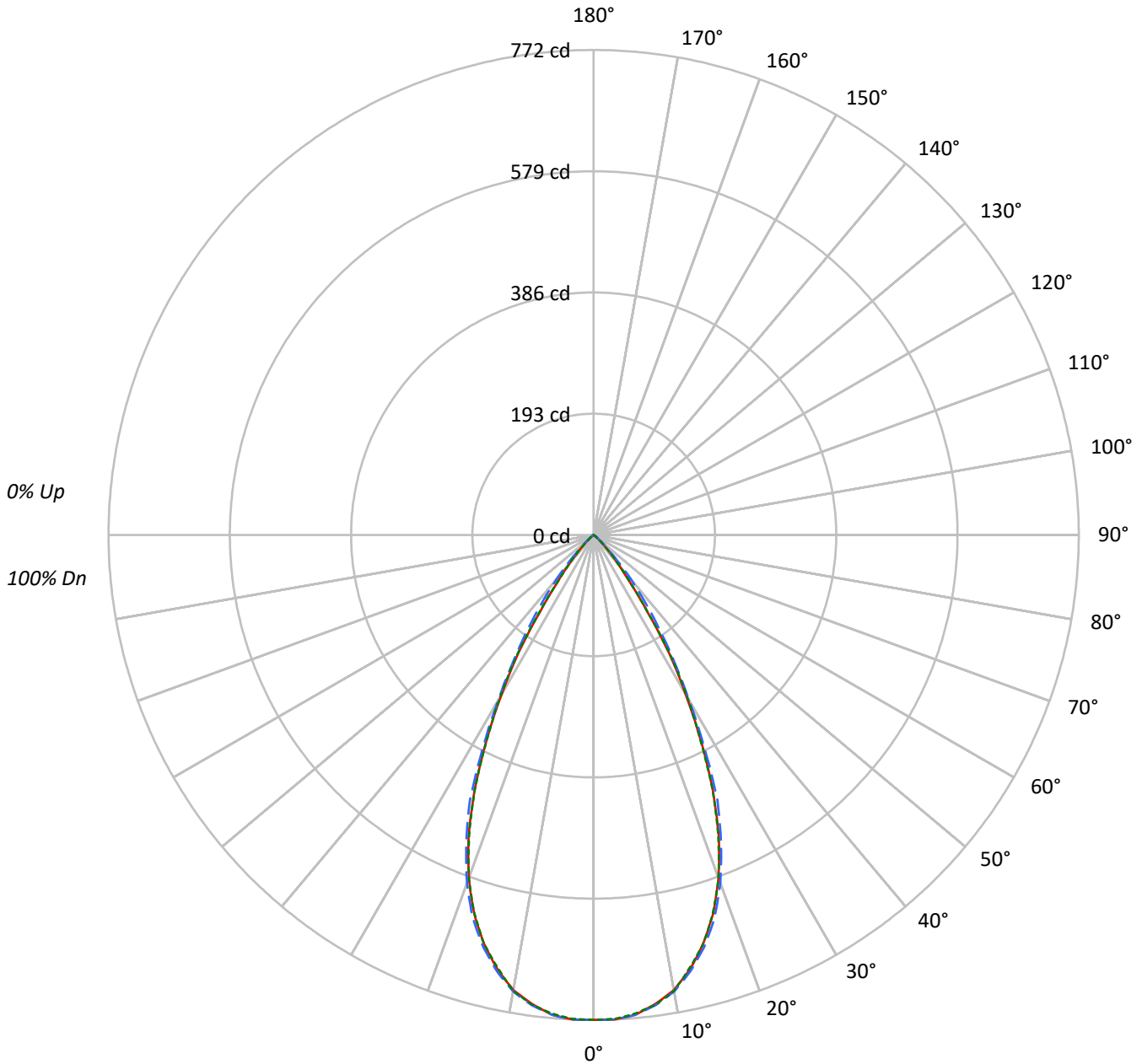
Input Watts (W): 7.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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				
RW	70	50	30	10	70	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	109	104	100	97	106	102	99	96	99	96	94	96	94	92	93	92	90	88		
3	104	97	93	89	102	96	92	88	94	90	87	91	88	86	89	86	84	83		
4	99	92	86	82	97	90	86	82	88	84	81	86	83	80	85	82	79	78		
5	94	86	81	77	92	85	80	76	83	79	76	82	78	75	80	77	74	73		
6	90	81	76	72	88	80	75	71	79	74	71	78	73	70	76	73	70	68		
7	85	77	71	67	84	76	71	67	75	70	67	74	69	66	73	69	66	64		
8	82	73	67	63	80	72	67	63	71	66	63	70	66	62	69	65	62	61		
9	78	69	63	59	77	68	63	59	67	63	59	67	62	59	66	62	59	57		
10	75	65	60	56	74	65	60	56	64	59	56	63	59	56	63	59	56	54		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	299188	299188	299188
5°	298270	298270	297453
10°	289521	290386	289953
15°	270348	272474	270348
20°	239586	243091	239586
25°	191760	199071	191332
30°	130923	135710	132847
35°	69727	85385	71241
40°	30806	46437	31312
45°	11727	16988	11727
50°	3195	5787	3858
55°	743	2162	743
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 16988 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.2	12.1
10°-20°	188.0	31.6
20°-30°	204.0	34.3
30°-40°	105.9	17.8
40°-50°	23.2	3.9
50°-60°	2.2	0.4
60°-70°	0.0	0.0
70°-80°	0.0	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°	464.2	78.0
0°-40°	570.1	95.7
0°-60°	595.5	100.0
0°-90°	595.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	595.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	772	772	772	772	772	
5°	767	766	767	766	765	72
15°	674	676	679	675	674	187
25°	448	452	466	451	448	201
35°	147	166	180	169	151	98
45°	21	24	31	24	21	19
55°	1	2	3	1	1	1
65°	0	0	0	0	0	0
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°	772.1	772.1	772.1	772.1	772.1
2.5°	772.1	771.1	772.1	772.1	771.1
5°	766.8	765.7	766.8	765.7	764.7
7.5°	752.9	754.0	755.1	754.0	754.0
10°	735.8	736.9	738.0	736.9	736.9
12.5°	708.1	710.2	711.3	710.2	705.9
15°	673.9	676.0	679.2	675.0	673.9
17.5°	632.2	637.6	639.7	635.4	631.2
20°	581.0	586.3	589.5	586.3	581.0
22.5°	520.1	527.6	529.7	526.5	518.0
25°	448.5	451.7	465.6	450.7	447.5
27.5°	369.5	374.9	381.3	375.9	367.4
30°	292.6	298.0	303.3	300.1	296.9
32.5°	223.2	236.0	237.1	232.8	227.5
35°	147.4	165.5	180.5	168.7	150.6
37.5°	92.9	104.7	131.4	105.7	94.0
40°	60.9	66.2	91.8	67.3	61.9
42.5°	38.4	42.7	56.6	41.7	38.4
45°	21.4	23.5	31.0	23.5	21.4
47.5°	10.7	12.8	18.2	12.8	11.7
50°	5.3	7.5	9.6	7.5	6.4
52.5°	2.1	4.3	5.3	4.3	3.2
55°	1.1	2.1	3.2	1.1	1.1
57.5°	0.0	0.0	1.1	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
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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