

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: P886243

Luminaire Tested: ML204LSFL95FS1E-TIR1D55WFL-TL2SDSL-468LM-4000K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886243
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-102)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFL95FS1E-TIR1D55WFL-TL2SDSL-468LM-4000K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, METALLIC SILVER TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 534.7 lumens
Efficiency: N/A
Efficacy: 66.8 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

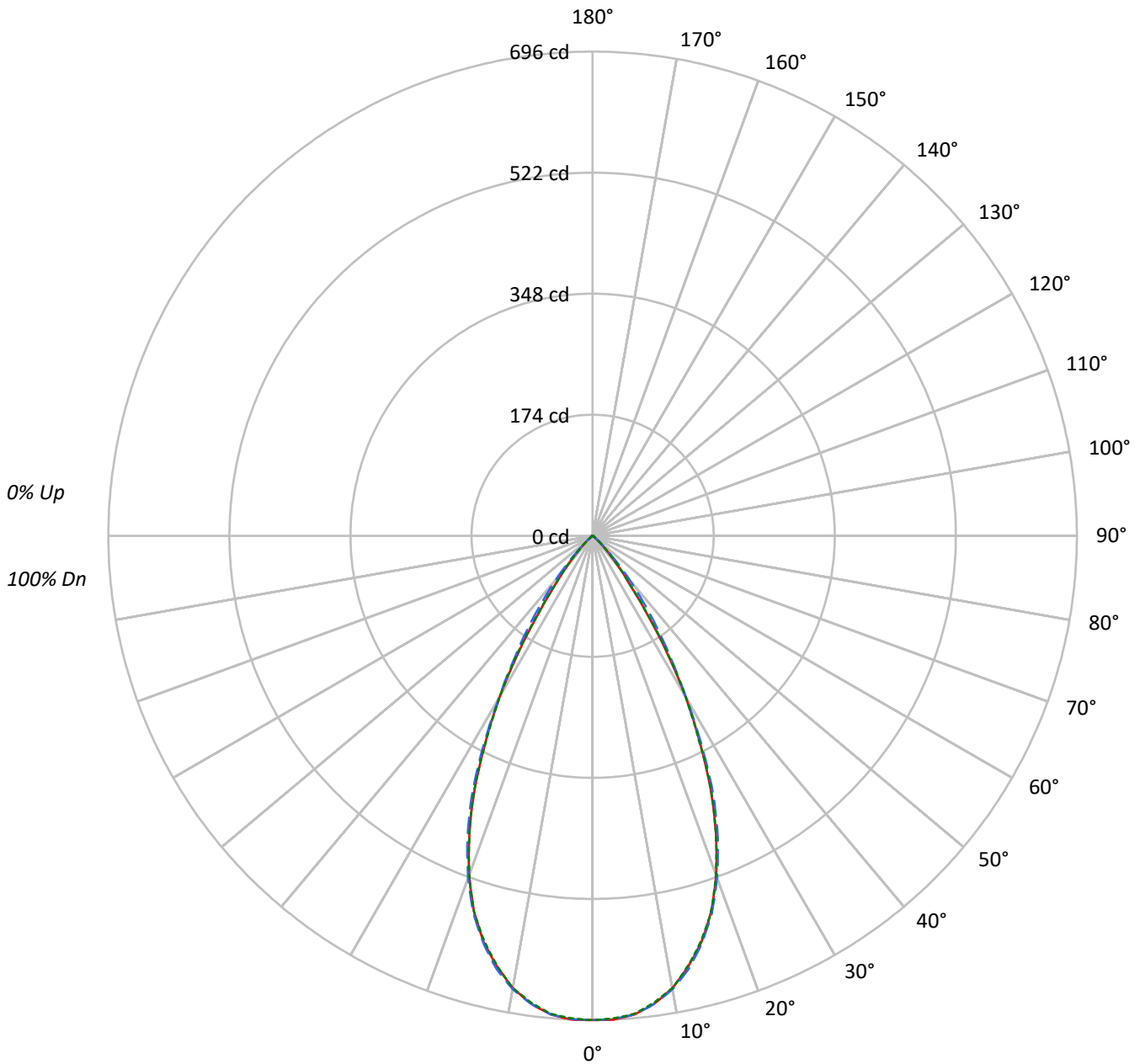
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	91	90	88		
3	103	97	93	89	101	96	92	88	93	90	87	91	88	85	89	86	84	83		
4	99	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	73		
6	90	81	75	71	88	80	75	71	79	74	71	77	73	70	76	73	70	68		
7	85	77	71	67	84	76	71	67	75	70	66	73	69	66	72	69	66	64		
8	81	72	67	63	80	72	66	63	71	66	62	70	65	62	69	65	62	61		
9	78	69	63	59	77	68	63	59	67	62	59	66	62	59	66	62	59	57		
10	74	65	60	56	73	65	59	56	64	59	56	63	59	56	63	58	55	54		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	269777	269777	269777
5°	268668	268668	268318
10°	259734	260482	259734
15°	242547	243269	241784
20°	214184	215710	213813
25°	171408	175384	172220
30°	119289	120139	119289
35°	62632	76208	64382
40°	29491	41682	29997
45°	11673	15235	11673
50°	3918	5004	3918
55°	1284	2500	1284
60°	697	697	697
65°	825	0	825
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: 15235 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.9	12.1
10°-20°	167.9	31.4
20°-30°	181.8	34.0
30°-40°	94.8	17.7
40°-50°	21.8	4.1
50°-60°	2.8	0.5
60°-70°	0.6	0.1
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°	414.7	77.6
0°-40°	509.5	95.3
0°-60°	534.1	99.9
0°-90°	534.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	534.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	696	696	696	696	696	
5°	691	690	691	690	690	65
15°	605	605	606	605	603	168
25°	401	405	410	404	403	180
35°	132	149	161	150	136	88
45°	21	23	28	23	21	19
55°	2	3	4	3	2	2
65°	1	1	0	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°	696.2	696.2	696.2	696.2	696.2
2.5°	696.2	696.2	695.3	696.2	694.4
5°	690.7	689.8	690.7	689.8	689.8
7.5°	678.7	678.7	678.7	677.7	676.8
10°	660.1	661.1	662.0	661.1	660.1
12.5°	634.2	634.2	637.9	633.3	633.3
15°	604.6	604.6	606.4	604.6	602.7
17.5°	566.6	567.6	569.4	565.7	566.6
20°	519.4	520.3	523.1	521.3	518.5
22.5°	462.9	466.6	470.3	471.3	462.9
25°	400.9	404.6	410.2	403.7	402.8
27.5°	332.4	333.3	338.9	335.2	330.5
30°	266.6	266.6	268.5	265.7	266.6
32.5°	197.2	208.3	210.2	208.3	201.8
35°	132.4	149.1	161.1	150.0	136.1
37.5°	85.2	95.4	116.7	96.3	86.1
40°	58.3	61.1	82.4	61.1	59.3
42.5°	37.0	39.8	50.0	39.8	37.0
45°	21.3	23.1	27.8	23.1	21.3
47.5°	12.0	13.0	15.7	13.0	13.0
50°	6.5	7.4	8.3	7.4	6.5
52.5°	3.7	4.6	5.6	4.6	3.7
55°	1.9	2.8	3.7	2.8	1.9
57.5°	0.9	0.9	1.9	0.9	0.9
60°	0.9	0.9	0.9	0.9	0.9
62.5°	0.9	0.9	0.9	0.9	0.9
65°	0.9	0.9	0.0	0.9	0.9
67.5°	0.0	0.9	0.0	0.0	0.9
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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