

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: P886124

Luminaire Tested: ML204LSFL95FS1E-TIR1D25NFL-TL2SDSL-468LM-5000K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886124
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-90)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFL95FS1E-TIR1D25NFL-TL2SDSL-468LM-5000K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 25D TIR, METALLIC SILVER TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 464.8 lumens
Efficiency: N/A
Efficacy: 58.1 lumens/watt
Spacing Criteria (0/90/45): 0.47 / 0.47 / 0.54
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

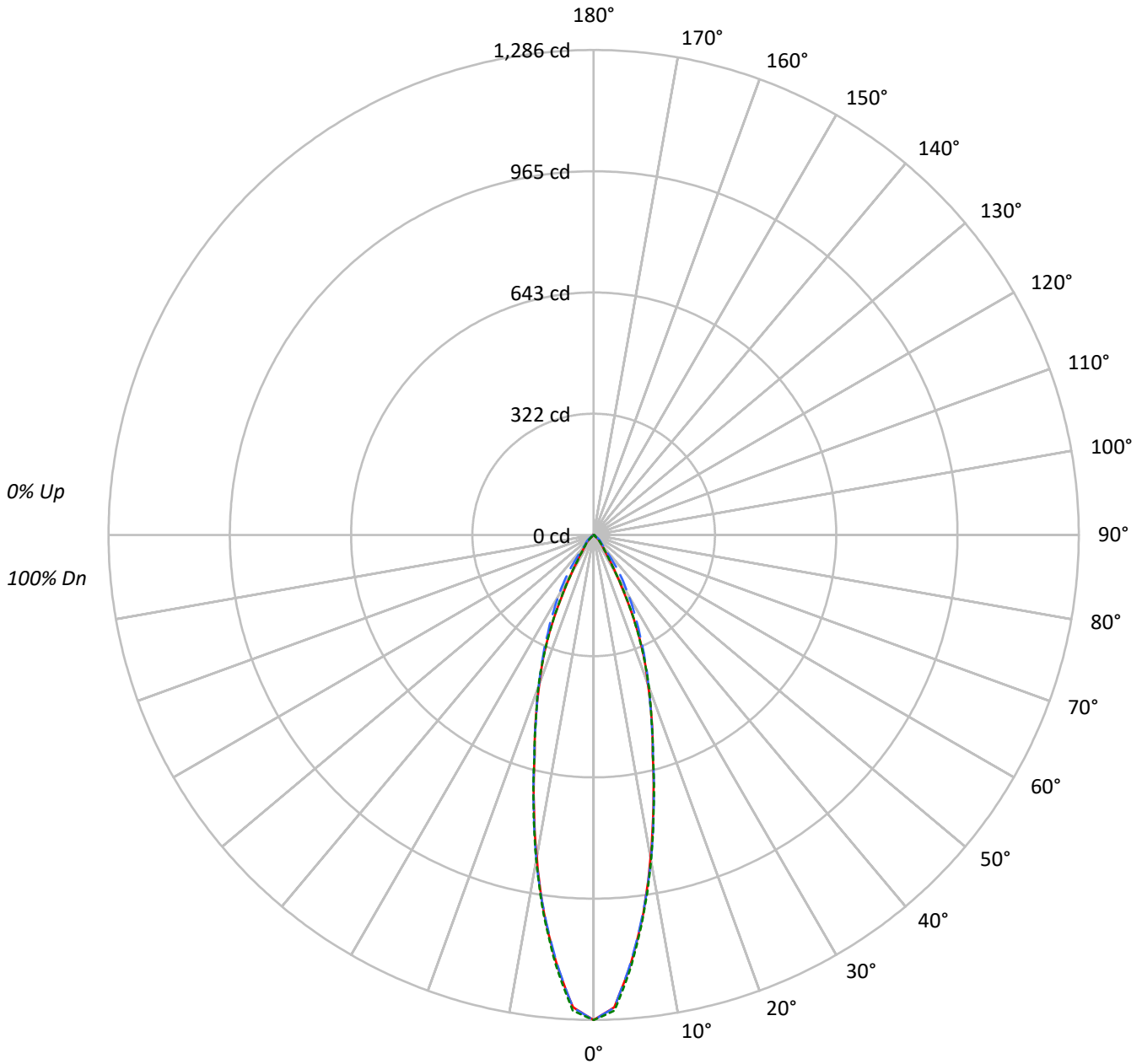
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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					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	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95								
2	110	105	102	99	107	104	100	98	100	98	96	98	95	94	95	93	92	90								
3	105	100	95	92	103	98	94	91	96	92	90	93	91	88	91	89	87	86								
4	101	94	90	86	99	93	89	85	91	87	84	89	86	84	87	85	83	81								
5	97	90	85	81	95	89	84	81	87	83	80	85	82	79	84	81	79	77								
6	93	85	80	77	92	85	80	76	83	79	76	82	78	75	81	77	75	74								
7	89	82	76	73	88	81	76	73	80	75	72	79	75	72	78	74	72	70								
8	86	78	73	69	85	77	73	69	76	72	69	76	72	69	75	71	68	67								
9	83	75	70	66	82	74	70	66	73	69	66	73	69	66	72	68	66	65								
10	80	72	67	64	79	71	67	63	71	66	63	70	66	63	69	66	63	62								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	498479	498479	498479
5°	442814	441686	445848
10°	341814	344489	344843
15°	242587	243790	243790
20°	173483	175092	176287
25°	112833	122837	112020
30°	52306	82375	52306
35°	24409	49292	24882
40°	16238	19222	15782
45°	8549	14961	9097
50°	2954	11153	2954
55°	1959	2635	1959
60°	1472	1472	1472
65°	917	917	917
70°	1133	1133	1133
75°	1497	0	1497
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 14961 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.3	21.6
10°-20°	170.3	36.6
20°-30°	125.7	27.0
30°-40°	47.6	10.2
40°-50°	15.7	3.4
50°-60°	3.6	0.8
60°-70°	1.2	0.2
70°-80°	0.5	0.1
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°	396.3	85.3
0°-40°	443.8	95.5
0°-60°	463.1	99.6
0°-90°	464.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	464.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1286	1286	1286	1286	1286	
5°	1138	1136	1136	1140	1146	100
15°	605	605	608	607	608	170
25°	264	280	287	278	262	118
35°	52	64	104	65	53	37
45°	16	20	27	20	17	12
55°	3	3	4	3	3	3
65°	1	1	1	1	1	1
75°	1	1	0	1	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1286.4	1286.4	1286.4	1286.4	1286.4
2.5°	1253.3	1253.3	1254.3	1257.2	1263.0
5°	1138.4	1135.5	1135.5	1140.3	1146.2
7.5°	1009.9	1008.9	1007.9	1007.9	1014.7
10°	868.7	873.5	875.5	866.7	876.4
12.5°	731.3	723.6	734.3	728.4	736.2
15°	604.7	604.7	607.7	606.7	607.7
17.5°	510.3	511.3	506.4	508.3	507.4
20°	420.7	423.6	424.6	425.6	427.5
22.5°	345.7	349.6	352.5	350.6	342.8
25°	263.9	279.5	287.3	277.5	262.0
27.5°	177.2	206.5	233.7	209.4	183.1
30°	116.9	142.2	184.1	141.2	116.9
32.5°	76.0	93.5	144.1	92.5	75.0
35°	51.6	64.3	104.2	65.2	52.6
37.5°	39.9	45.8	62.3	45.8	39.9
40°	32.1	33.1	38.0	34.1	31.2
42.5°	25.3	26.3	31.2	26.3	24.3
45°	15.6	20.5	27.3	20.5	16.6
47.5°	6.8	11.7	22.4	11.7	6.8
50°	4.9	4.9	18.5	4.9	4.9
52.5°	3.9	3.9	11.7	3.9	3.9
55°	2.9	2.9	3.9	2.9	2.9
57.5°	2.9	1.9	1.9	1.9	2.9
60°	1.9	1.9	1.9	1.9	1.9
62.5°	1.9	1.0	1.0	1.0	1.9
65°	1.0	1.0	1.0	1.0	1.0
67.5°	1.0	1.0	1.0	1.0	1.0
70°	1.0	1.0	1.0	1.0	1.0
72.5°	1.0	1.0	0.0	1.0	1.0
75°	1.0	1.0	0.0	1.0	1.0
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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