

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: P886120

Luminaire Tested: ML204LSFL95FS1E-TIR1D25NFL-TL2SDSL-468LM-2700K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886120
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-2700K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 25D TIR, METALLIC SILVER TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 2700K CCT
Ballast/Driver: -

Summary

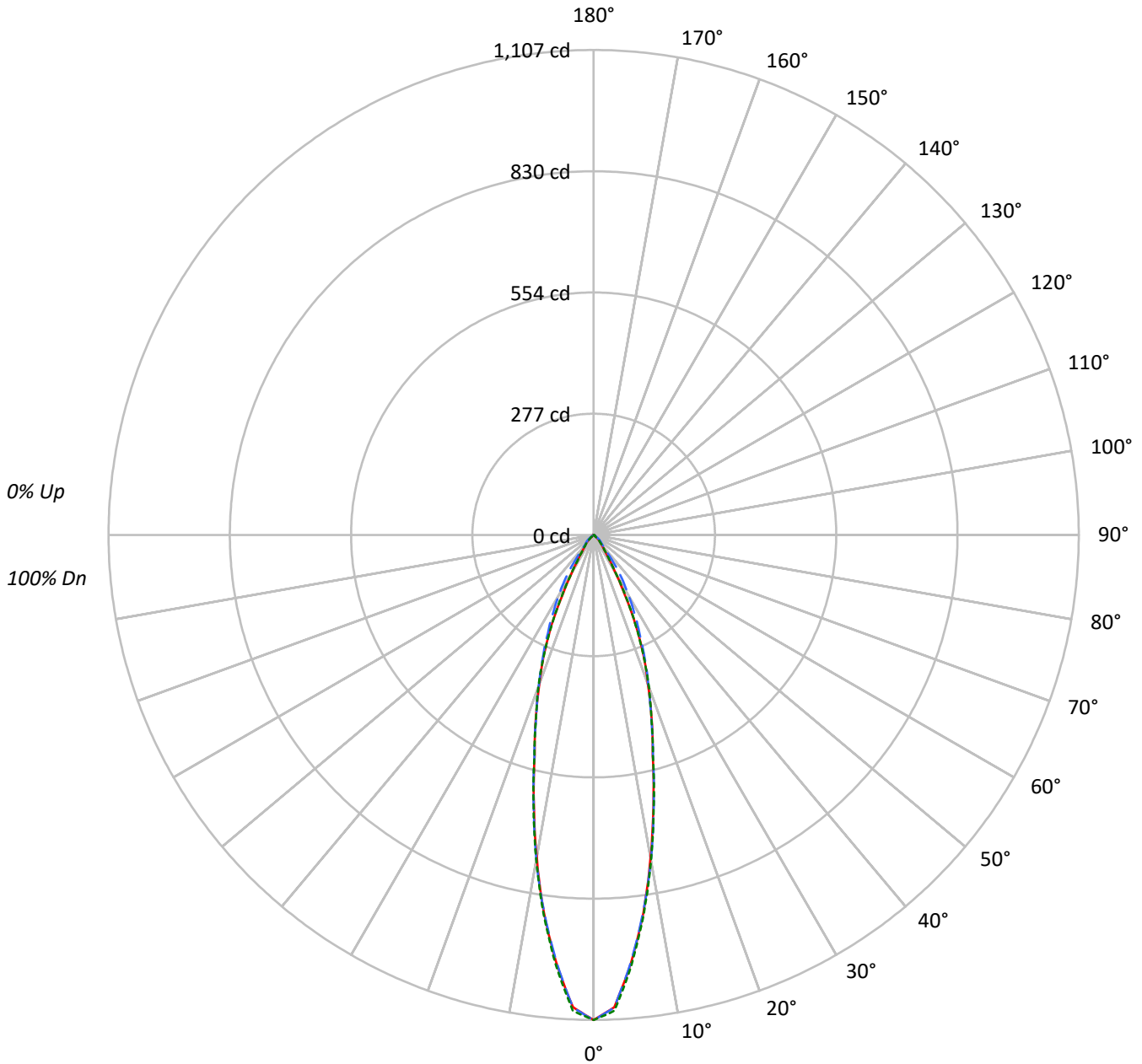
Lumens per Lamp: N/A
Luminaire Lumens: 400.1 lumens
Efficiency: N/A
Efficacy: 50.0 lumens/watt
Spacing Criteria (0/90/45): 0.47 / 0.47 / 0.54
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	429117	429117	429117
5°	381200	380228	383806
10°	294242	296524	296879
15°	208849	209851	209851
20°	149319	150721	151752
25°	97141	105735	96414
30°	45013	70875	45013
35°	21003	42433	21429
40°	14012	16541	13557
45°	7343	12878	7836
50°	2532	9585	2532
55°	1689	2297	1689
60°	1317	1317	1317
65°	734	734	734
70°	906	906	906
75°	1198	0	1198
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 12878 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.4	21.6
10°-20°	146.6	36.6
20°-30°	108.2	27.0
30°-40°	41.0	10.2
40°-50°	13.5	3.4
50°-60°	3.1	0.8
60°-70°	1.0	0.2
70°-80°	0.4	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°	341.1	85.3
0°-40°	382.1	95.5
0°-60°	398.7	99.7
0°-90°	400.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	400.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1107	1107	1107	1107	1107	
5°	980	978	978	982	987	86
15°	521	521	523	522	523	146
25°	227	241	247	239	226	101
35°	44	55	90	56	45	32
45°	13	18	24	18	14	11
55°	2	2	3	2	2	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°	1107.4	1107.4	1107.4	1107.4	1107.4
2.5°	1078.9	1078.9	1079.7	1082.2	1087.3
5°	980.0	977.5	977.5	981.6	986.7
7.5°	869.3	868.5	867.6	867.6	873.5
10°	747.8	752.0	753.6	746.1	754.5
12.5°	629.6	622.9	632.1	627.0	633.8
15°	520.6	520.6	523.1	522.3	523.1
17.5°	439.3	440.1	435.9	437.6	436.8
20°	362.1	364.7	365.5	366.3	368.0
22.5°	297.6	300.9	303.5	301.8	295.1
25°	227.2	240.6	247.3	238.9	225.5
27.5°	152.6	177.7	201.2	180.2	157.6
30°	100.6	122.4	158.4	121.6	100.6
32.5°	65.4	80.5	124.1	79.6	64.5
35°	44.4	55.3	89.7	56.2	45.3
37.5°	34.4	39.4	53.7	39.4	34.4
40°	27.7	28.5	32.7	29.3	26.8
42.5°	21.8	22.6	26.8	22.6	21.0
45°	13.4	17.6	23.5	17.6	14.3
47.5°	5.9	10.1	19.3	10.1	5.9
50°	4.2	4.2	15.9	4.2	4.2
52.5°	3.4	3.4	10.1	3.4	3.4
55°	2.5	2.5	3.4	2.5	2.5
57.5°	2.5	1.7	1.7	1.7	2.5
60°	1.7	1.7	1.7	1.7	1.7
62.5°	1.7	0.8	0.8	0.8	1.7
65°	0.8	0.8	0.8	0.8	0.8
67.5°	0.8	0.8	0.8	0.8	0.8
70°	0.8	0.8	0.8	0.8	0.8
72.5°	0.8	0.8	0.0	0.8	0.8
75°	0.8	0.8	0.0	0.8	0.8
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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