

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: P641186

Luminaire Tested: ML5612LSNFL2597FS1E - 694TBZB - 1200LM - 2700K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641186  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-22)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSNFL2597FS1E - 694TBZB - 1200LM - 2700K  
Description: ML56 RR, 25D TIR OPTIC, 6" TUSCON BRONZE GIMBAL TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

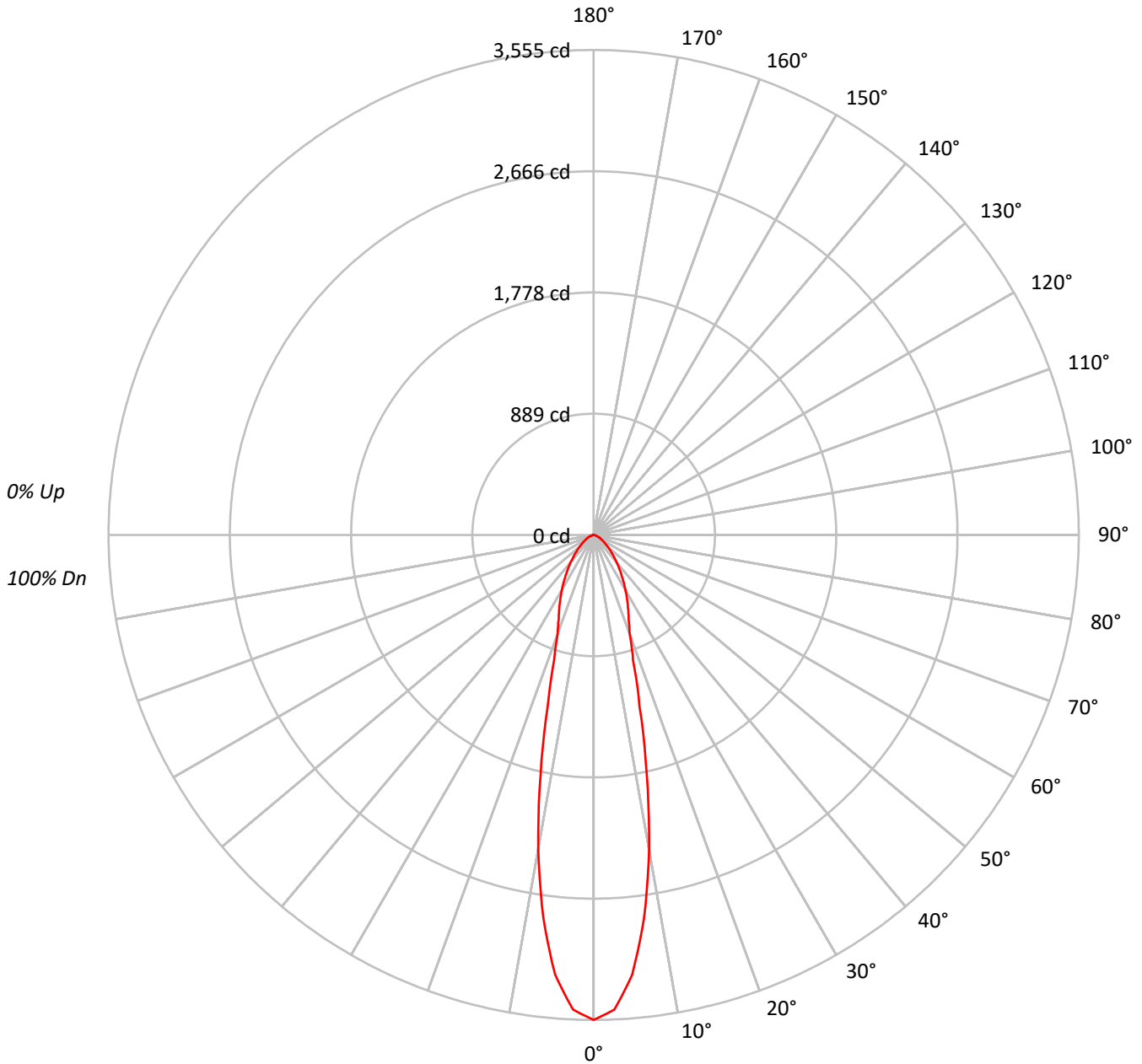
Lumens per Lamp: N/A  
Luminaire Lumens: 1443.5 lumens  
Efficiency: N/A  
Efficacy: 87.5 lumens/watt  
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.43  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 16.5  
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



TEST NUMBER: P641186  
CATALOG NUMBER: ML5612LSNFL2597FS1E - 694TBZB - 1200LM - 2700K

### Luminous Intensity Polar Plot





TEST NUMBER: P641186

CATALOG NUMBER: ML5612LSNFL2597FS1E - 694TBZB - 1200LM - 2700K

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20		
RC	80				70				50				30				10		
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30
RCR																			
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100
1	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	95	94	93	93
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85	85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	82	86	83	80	79	79
4	96	88	82	78	94	87	81	77	85	80	76	83	79	75	81	77	75	73	73
5	91	82	76	72	89	81	76	71	80	75	71	78	74	70	76	73	70	68	68
6	87	77	71	67	85	77	71	67	75	70	66	74	69	66	72	68	65	64	64
7	83	73	67	63	81	72	67	63	71	66	62	70	65	62	69	65	61	60	60
8	79	69	63	59	78	69	63	59	68	62	59	67	62	58	66	61	58	57	57
9	75	66	60	56	74	65	60	56	64	59	56	63	59	55	63	58	55	54	54
10	72	63	57	53	71	62	57	53	62	56	53	61	56	53	60	56	53	51	51

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	194886
5°	178109
10°	130091
15°	73775
20°	45008
25°	36117
30°	29435
35°	23604
40°	18721
45°	14645
50°	11377
55°	8965
60°	7094
65°	5824
70°	4231
75°	2521
80°	1263
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 14645 cd/sqm



TEST NUMBER: P641186

CATALOG NUMBER: ML5612LSNFL2597FS1E - 694TBZB - 1200LM - 2700K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	279.6	19.4
10°-20°	374.4	25.9
20°-30°	275.6	19.1
30°-40°	221.8	15.4
40°-50°	147.4	10.2
50°-60°	85.3	5.9
60°-70°	44.8	3.1
70°-80°	13.4	0.9
80°-90°	1.2	0.1
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°	929.6	64.4
0°-40°	1151.4	79.8
0°-60°	1384.1	95.9
0°-90°	1443.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1443.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3555	
5°	3237	280
15°	1300	374
25°	597	276
35°	353	222
45°	189	147
55°	94	85
65°	45	45
75°	12	13
85°	0	1
90°	0	



TEST NUMBER: P641186

CATALOG NUMBER: ML5612LSNFL2597FS1E - 694TBZB - 1200LM - 2700K

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3555.0
2.5°	3483.7
5°	3236.6
7.5°	2831.1
10°	2337.0
12.5°	1796.7
15°	1299.9
17.5°	960.4
20°	771.5
22.5°	671.1
25°	597.1
27.5°	529.8
30°	465.0
32.5°	406.9
35°	352.7
37.5°	305.2
40°	261.6
42.5°	221.9
45°	188.9
47.5°	159.8
50°	133.4
52.5°	112.3
55°	93.8
57.5°	77.9
60°	64.7
62.5°	54.2
65°	44.9
67.5°	37.0
70°	26.4
72.5°	17.2
75°	11.9
77.5°	6.6
80°	4.0
82.5°	2.6
85°	0.0
87.5°	0.0
90°	0.0

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report





Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



— 0°-180°

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)