

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: P641084

Luminaire Tested: ML5612LSNFL2597FS1E - 692H - 1200LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641084
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSNFL2597FS1E - 692H - 1200LM - 4000K
Description: ML56 RR, 25D TIR OPTIC, 6" HAZE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

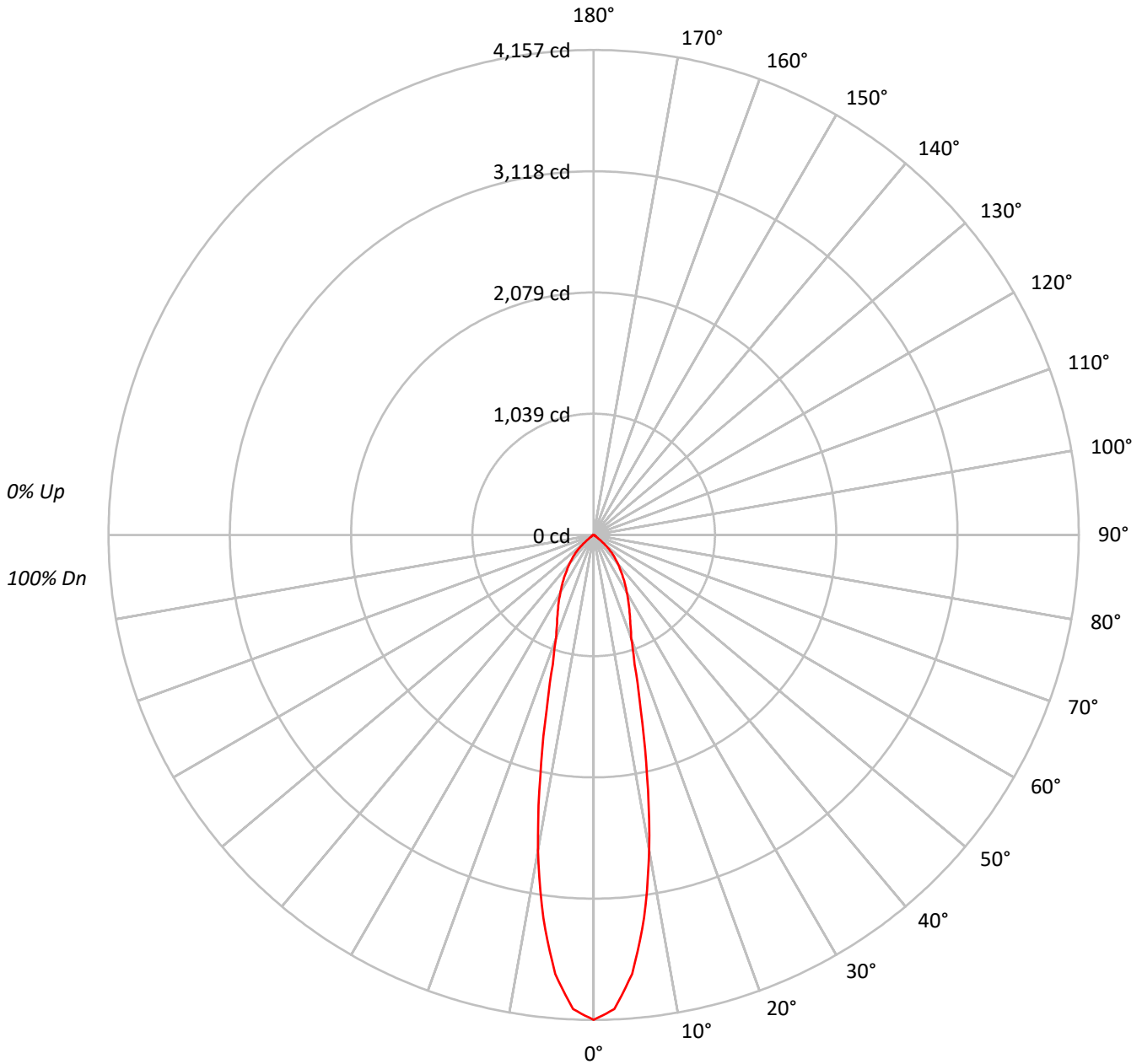
Lumens per Lamp: N/A
Luminaire Lumens: 1593.0 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 16.5
Input Voltage (V): NR
Input Current (A_{in}): 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: P641084
CATALOG NUMBER: ML5612LSNFL2597FS1E - 692H - 1200LM - 4000K

Luminous Intensity Polar Plot





TEST NUMBER: P641084

CATALOG NUMBER: ML5612LSNFL2597FS1E - 692H - 1200LM - 4000K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	111	109	106	111	109	107	105	105	103	102	101	100	99	98	97	96	94																			
2	108	104	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88																			
3	103	97	92	88	101	96	91	88	93	89	86	91	87	85	88	86	84	82																			
4	98	91	86	82	96	90	85	81	88	84	80	86	82	79	84	81	78	77																			
5	94	86	80	76	92	85	79	76	83	78	75	81	77	74	80	76	74	72																			
6	89	81	75	71	88	80	75	71	79	74	70	77	73	70	76	72	69	68																			
7	85	77	71	67	84	76	70	67	75	70	66	73	69	66	72	69	66	64																			
8	82	73	67	63	81	72	67	63	71	66	63	70	66	62	69	65	62	61																			
9	78	69	64	60	77	69	63	60	68	63	60	67	63	59	66	62	59	58																			
10	75	66	61	57	74	66	60	57	65	60	57	64	60	57	63	59	56	55																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	227893
5°	207852
10°	152736
15°	88304
20°	54844
25°	44059
30°	36031
35°	29145
40°	23000
45°	17351
50°	8963
55°	2581
60°	1645
65°	973
70°	481
75°	318
80°	474
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 17351 cd/sqm



TEST NUMBER: P641084

CATALOG NUMBER: ML5612LSNFL2597FS1E - 692H - 1200LM - 4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	327.0	20.5
10°-20°	446.5	28.0
20°-30°	336.2	21.1
30°-40°	273.0	17.1
40°-50°	166.6	10.5
50°-60°	34.3	2.2
60°-70°	7.4	0.5
70°-80°	1.8	0.1
80°-90°	0.2	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°	1109.7	69.7
0°-40°	1382.7	86.8
0°-60°	1583.7	99.4
0°-90°	1593.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1593.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4157	
5°	3777	327
15°	1556	447
25°	728	336
35°	436	273
45°	224	167
55°	27	34
65°	8	7
75°	2	2
85°	0	0
90°	0	



TEST NUMBER: P641084

CATALOG NUMBER: ML5612LSNFL2597FS1E - 692H - 1200LM - 4000K

CANDELA DISTRIBUTION (FULL):

	0°
0°	4157.1
2.5°	4068.5
5°	3777.1
7.5°	3311.5
10°	2743.8
12.5°	2113.1
15°	1555.9
17.5°	1165.4
20°	940.1
22.5°	818.5
25°	728.4
27.5°	645.8
30°	569.2
32.5°	501.6
35°	435.5
37.5°	375.5
40°	321.4
42.5°	273.3
45°	223.8
47.5°	162.2
50°	105.1
52.5°	49.6
55°	27.0
57.5°	19.5
60°	15.0
62.5°	10.5
65°	7.5
67.5°	3.0
70°	3.0
72.5°	1.5
75°	1.5
77.5°	1.5
80°	1.5
82.5°	0.0
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)