

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: P640906

Luminaire Tested: ML5612LSNFL2597FS1E - 592H - 600LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640906
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSNFL2597FS1E - 592H - 600LM - 2700K
Description: ML56 RR, 25D TIR OPTIC, 5" HAZE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 894.6 lumens
Efficiency: N/A
Efficacy: 86.9 lumens/watt
Spacing Criteria (0/90/45): 0.44 / 0.44 / 0.46
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

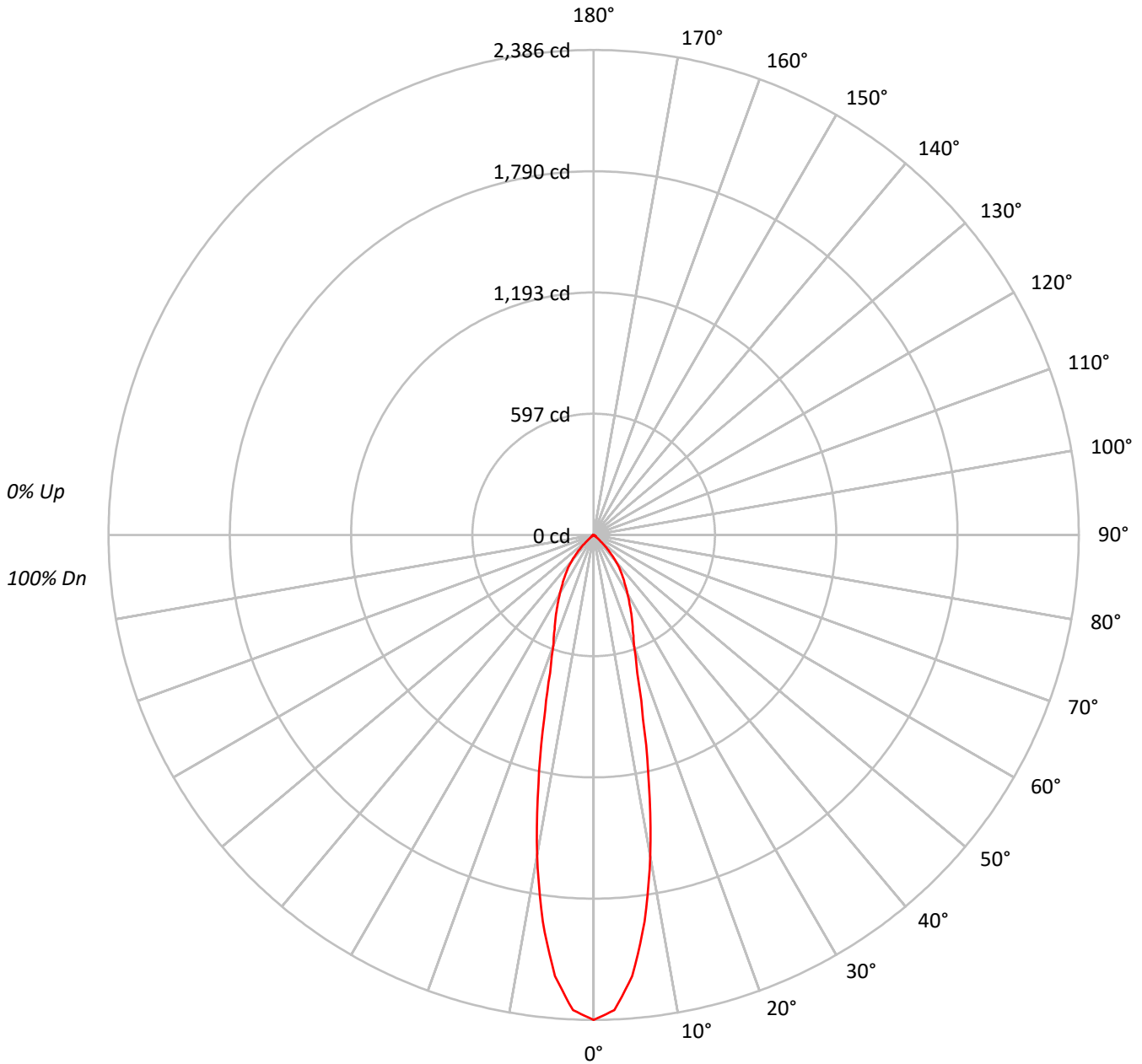
Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	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	112	109	107	105	105	104	102		101	100	99		98	97	96	94
2	109	104	101	97	107	103	99	96	99	97	94		96	94	92		94	92	90	89
3	104	98	93	90	102	97	92	89	94	90	88		92	89	86		89	87	85	83
4	99	92	87	83	97	91	86	83	89	85	82		87	84	81		85	82	80	79
5	95	87	82	78	93	86	81	77	84	80	77		83	79	76		81	78	75	74
6	91	82	77	73	89	82	77	73	80	76	72		79	75	72		78	74	71	70
7	87	78	73	69	86	78	72	69	76	72	68		75	71	68		74	71	68	66
8	83	75	69	65	82	74	69	65	73	68	65		72	68	65		71	67	64	63
9	80	71	66	62	79	71	65	62	70	65	62		69	65	62		68	64	61	60
10	77	68	63	59	76	68	63	59	67	62	59		66	62	59		65	61	59	57

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	188392
5°	172646
10°	128575
15°	76675
20°	48640
25°	38412
30°	30263
35°	23716
40°	17632
45°	9880
50°	2505
55°	1294
60°	947
65°	318
70°	208
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9880 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.2	21.2
10°-20°	268.2	30.0
20°-30°	202.8	22.7
30°-40°	154.3	17.2
40°-50°	67.8	7.6
50°-60°	9.6	1.1
60°-70°	2.3	0.3
70°-80°	0.4	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°	660.3	73.8
0°-40°	814.6	91.1
0°-60°	892.0	99.7
0°-90°	894.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	894.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2386	
5°	2179	189
15°	938	268
25°	441	203
35°	246	154
45°	88	68
55°	9	10
65°	2	2
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2386.5
2.5°	2339.6
5°	2178.7
7.5°	1919.1
10°	1604.0
12.5°	1255.8
15°	938.2
17.5°	713.5
20°	579.0
22.5°	502.3
25°	441.0
27.5°	382.3
30°	332.0
32.5°	286.1
35°	246.1
37.5°	211.1
40°	171.1
42.5°	127.7
45°	88.5
47.5°	46.8
50°	20.4
52.5°	12.8
55°	9.4
57.5°	7.7
60°	6.0
62.5°	3.4
65°	1.7
67.5°	0.9
70°	0.9
72.5°	0.9
75°	0.0
77.5°	0.0
80°	0.0
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

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— 0°-180°

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