

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: P640907

Luminaire Tested: ML5612LSNFL2597FS1E - 592H - 600LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640907
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 - 3000K
Description: ML56 RR, 25D TIR OPTIC, 5" HAZE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 920.2 lumens
Efficiency: N/A
Efficacy: 89.3 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

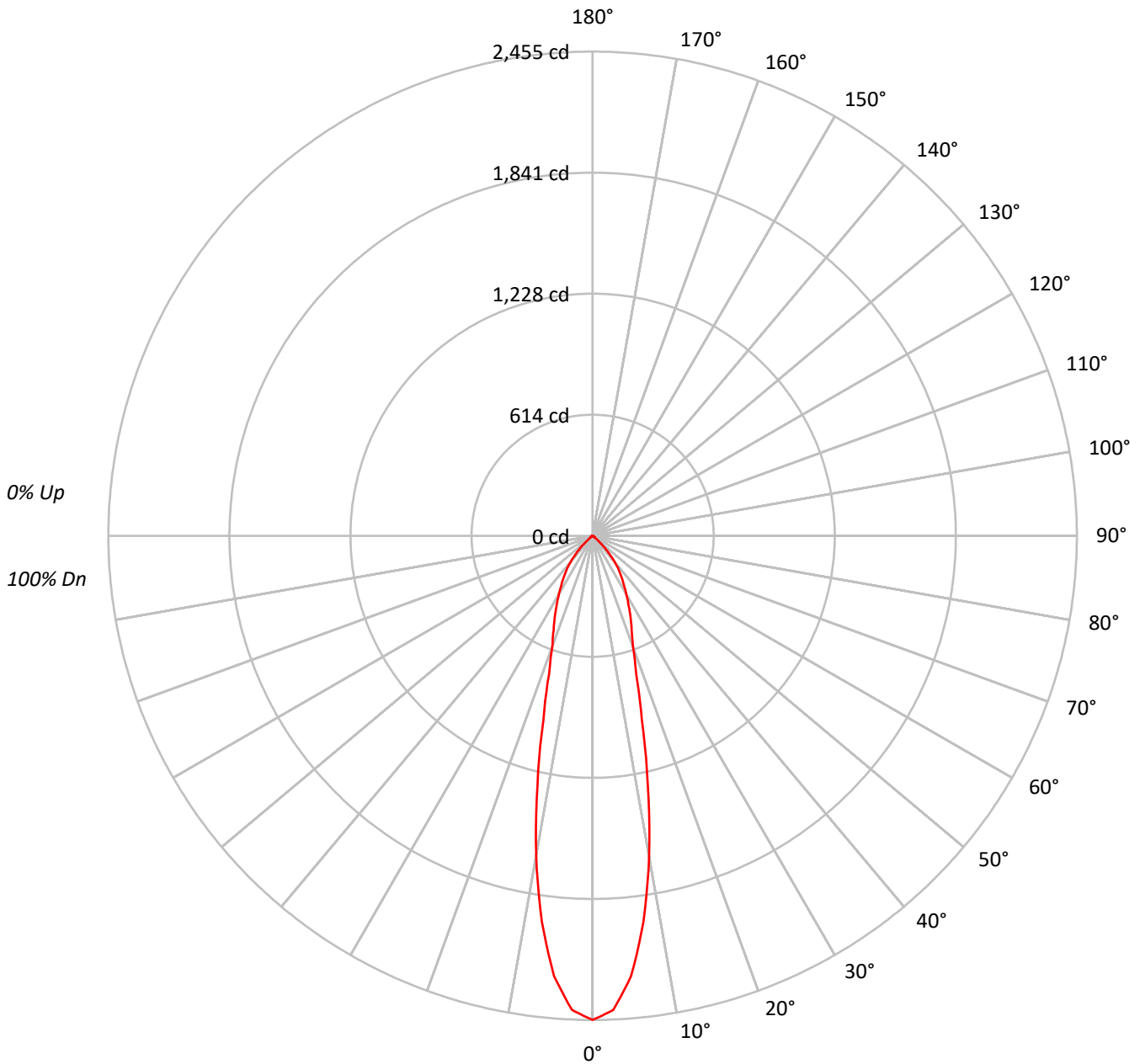
Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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	111	109	107	112	109	107	105	105	104	102	101	100	99	98	97	96	94					94			
2	109	104	101	97	107	103	99	96	99	97	94	96	94	92	94	92	90	89					89			
3	104	98	93	90	102	97	92	89	94	90	88	92	89	86	89	87	85	83					83			
4	99	92	87	83	97	91	86	83	89	85	82	87	84	81	85	82	80	79					79			
5	95	87	82	78	93	86	81	77	84	80	77	83	79	76	81	78	75	74					74			
6	91	82	77	73	89	82	77	73	80	76	72	79	75	72	78	74	71	70					70			
7	87	78	73	69	86	78	72	69	76	72	68	75	71	68	74	71	68	66					66			
8	83	75	69	65	82	74	69	65	73	68	65	72	68	65	71	67	64	63					63			
9	80	71	66	62	79	71	65	62	70	65	62	69	65	62	68	64	61	60					60			
10	77	68	63	59	76	68	63	59	67	62	59	66	62	59	65	61	59	57					57			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	193776
5°	177582
10°	132254
15°	78873
20°	50026
25°	39509
30°	31129
35°	24391
40°	18137
45°	10170
50°	2579
55°	1321
60°	963
65°	336
70°	208
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10170 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.7	21.2
10°-20°	275.9	30.0
20°-30°	208.6	22.7
30°-40°	158.7	17.2
40°-50°	69.8	7.6
50°-60°	9.8	1.1
60°-70°	2.4	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°	679.2	73.8
0°-40°	837.9	91.1
0°-60°	917.5	99.7
0°-90°	920.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	920.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2455	
5°	2241	195
15°	965	276
25°	454	209
35°	253	159
45°	91	70
55°	10	10
65°	2	2
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2454.7
2.5°	2406.5
5°	2241.0
7.5°	1973.9
10°	1649.9
12.5°	1291.7
15°	965.1
17.5°	733.9
20°	595.5
22.5°	516.7
25°	453.6
27.5°	393.2
30°	341.5
32.5°	294.2
35°	253.1
37.5°	217.2
40°	176.0
42.5°	131.4
45°	91.1
47.5°	48.2
50°	21.0
52.5°	13.1
55°	9.6
57.5°	7.9
60°	6.1
62.5°	3.5
65°	1.8
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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