

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: P640928

Luminaire Tested: ML5612LSNFL2597FS1E - 592SC - 900LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640928
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSNFL2597FS1E - 592SC - 900LM - 3500K
Description: ML56 RR, 25D TIR OPTIC, 5" SPECULAR CLEAR TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1226.5 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Spacing Criteria (0/90/45): 0.44 / 0.44 / 0.48
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

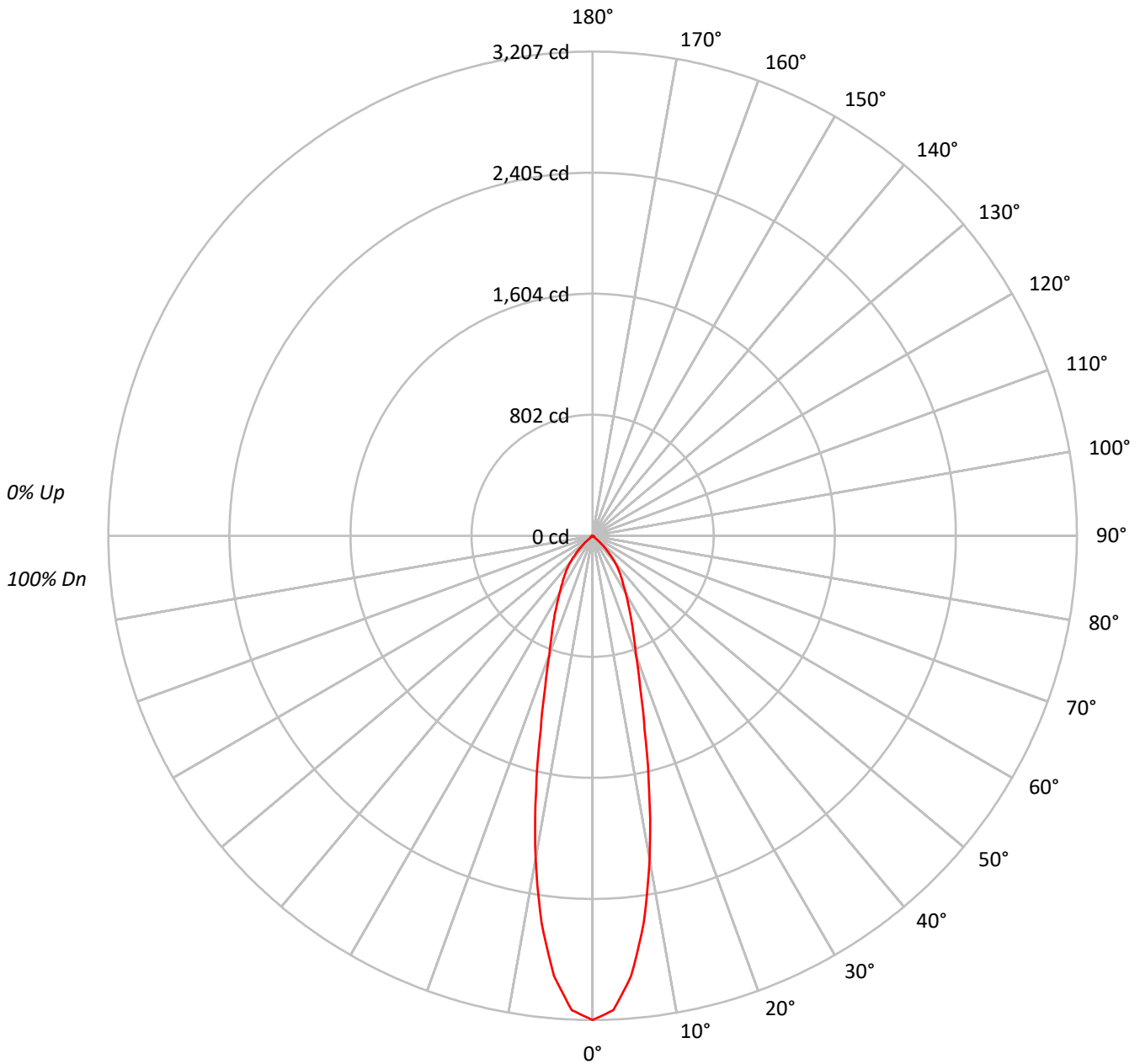
Input Watts (W): 13.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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	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	91	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	78	85	80	77	83	79	76	81	78	76	74			
6	91	83	77	73	89	82	77	73	80	76	72	79	75	72	78	74	71	70			
7	87	78	73	69	86	78	73	69	76	72	69	75	71	68	74	71	68	67			
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	66	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	62	59	58			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	253195
5°	231959
10°	174273
15°	108491
20°	70339
25°	52540
30°	39743
35°	31455
40°	24011
45°	13910
50°	3684
55°	1583
60°	1089
65°	430
70°	277
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13910 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.0	20.8
10°-20°	377.5	30.8
20°-30°	278.7	22.7
30°-40°	204.4	16.7
40°-50°	95.2	7.8
50°-60°	12.5	1.0
60°-70°	3.0	0.2
70°-80°	0.2	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°	911.3	74.3
0°-40°	1115.7	91.0
0°-60°	1223.4	99.7
0°-90°	1226.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1226.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3207	
5°	2927	255
15°	1328	378
25°	603	279
35°	326	204
45°	125	95
55°	12	12
65°	2	3
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3207.4
2.5°	3145.2
5°	2927.2
7.5°	2586.9
10°	2174.1
12.5°	1730.0
15°	1327.5
17.5°	1040.3
20°	837.3
22.5°	705.8
25°	603.2
27.5°	509.8
30°	436.0
32.5°	374.8
35°	326.4
37.5°	281.4
40°	233.0
42.5°	176.5
45°	124.6
47.5°	70.4
50°	30.0
52.5°	17.3
55°	11.5
57.5°	9.2
60°	6.9
62.5°	4.6
65°	2.3
67.5°	1.2
70°	1.2
72.5°	0.0
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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