

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: P640903

Luminaire Tested: ML5612LSNFL2597FS1E - 592H - 1200LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640903
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 - 1200LM - 3500K
Description: ML56 RR, 25D TIR OPTIC, 5" HAZE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1468.1 lumens
Efficiency: N/A
Efficacy: 89.0 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

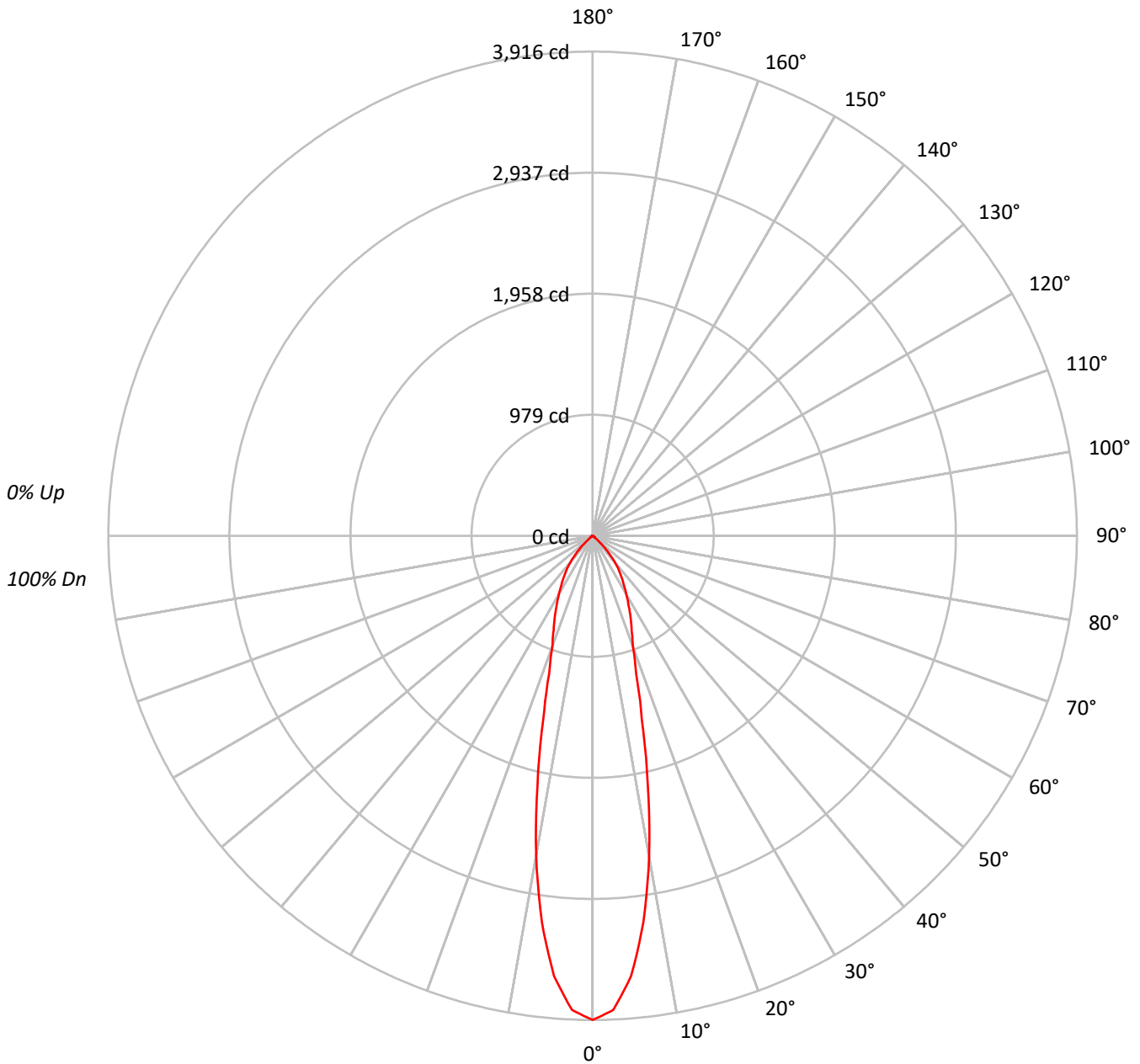
Input Watts (W): 16.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	309141
5°	283308
10°	210994
15°	125825
20°	79807
25°	63035
30°	49669
35°	38914
40°	28936
45°	16221
50°	4114
55°	2119
60°	1547
65°	523
70°	323
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16221 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.5	21.2
10°-20°	440.2	30.0
20°-30°	332.8	22.7
30°-40°	253.2	17.3
40°-50°	111.3	7.6
50°-60°	15.7	1.1
60°-70°	3.8	0.3
70°-80°	0.5	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°	1083.5	73.8
0°-40°	1336.8	91.1
0°-60°	1463.7	99.7
0°-90°	1468.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1468.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3916	
5°	3575	311
15°	1540	440
25°	724	333
35°	404	253
45°	145	111
55°	15	16
65°	3	4
75°	0	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3916.1
2.5°	3839.3
5°	3575.2
7.5°	3149.1
10°	2632.2
12.5°	2060.7
15°	1539.6
17.5°	1170.8
20°	950.0
22.5°	824.3
25°	723.7
27.5°	627.3
30°	544.9
32.5°	469.4
35°	403.8
37.5°	346.5
40°	280.8
42.5°	209.6
45°	145.3
47.5°	76.8
50°	33.5
52.5°	21.0
55°	15.4
57.5°	12.6
60°	9.8
62.5°	5.6
65°	2.8
67.5°	1.4
70°	1.4
72.5°	1.4
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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(END OF REPORT)