

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: P641088

Luminaire Tested: ML5612LSNFL2597FS1E - 692H - 600LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641088
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 - 600LM - 3500K
Description: ML56 RR, 25D TIR OPTIC, 6" HAZE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 953.4 lumens
Efficiency: N/A
Efficacy: 92.6 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

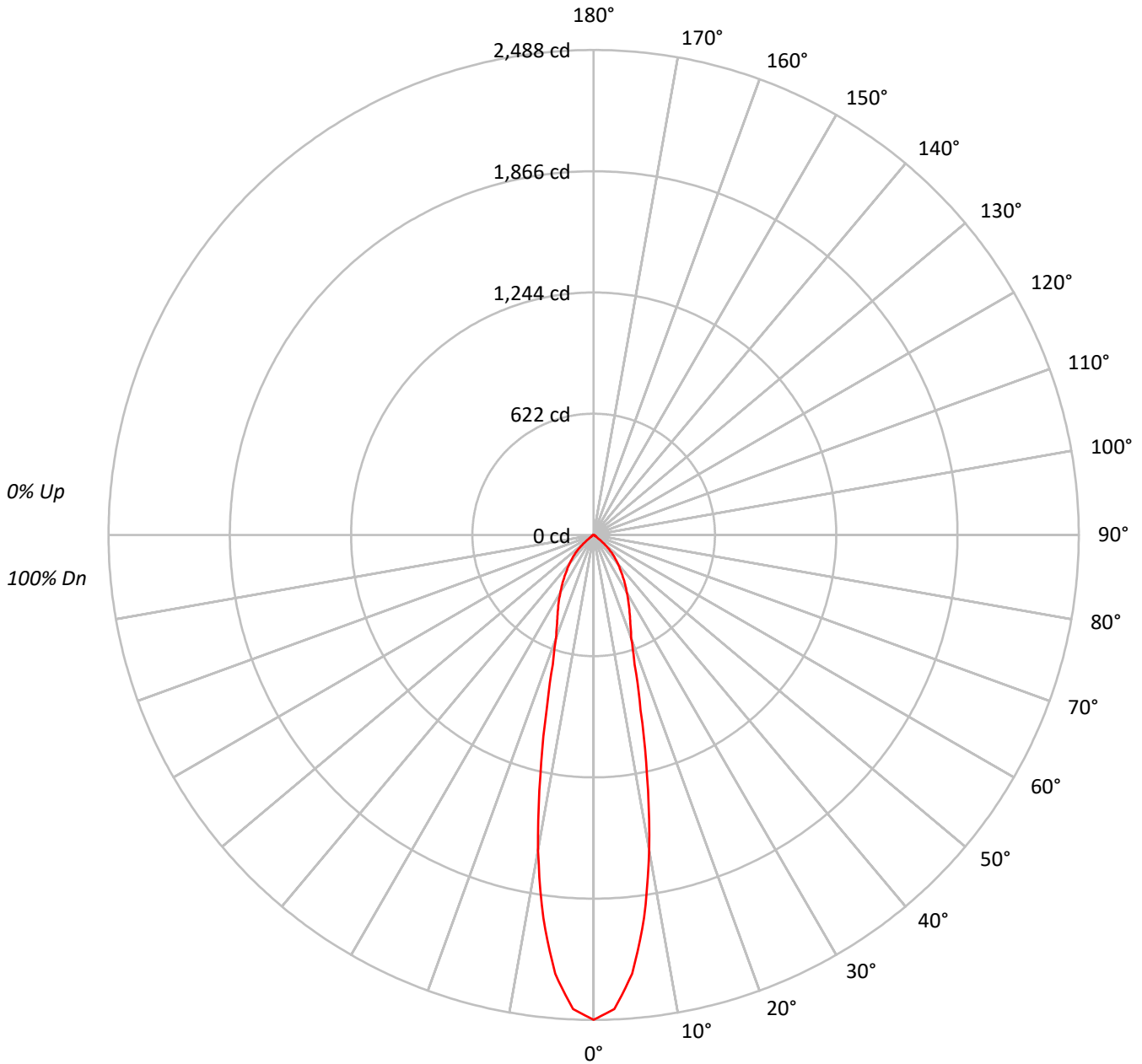
Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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	83	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°	136376
5°	124383
10°	91403
15°	52844
20°	32821
25°	26366
30°	21560
35°	17440
40°	13761
45°	10381
50°	5364
55°	1548
60°	987
65°	584
70°	289
75°	191
80°	284
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10381 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.7	20.5
10°-20°	267.2	28.0
20°-30°	201.2	21.1
30°-40°	163.4	17.1
40°-50°	99.7	10.5
50°-60°	20.6	2.2
60°-70°	4.4	0.5
70°-80°	1.1	0.1
80°-90°	0.1	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°	664.1	69.7
0°-40°	827.4	86.8
0°-60°	947.7	99.4
0°-90°	953.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	953.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2488	
5°	2260	196
15°	931	267
25°	436	201
35°	261	163
45°	134	100
55°	16	21
65°	4	4
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2487.7
2.5°	2434.6
5°	2260.3
7.5°	1981.7
10°	1642.0
12.5°	1264.5
15°	931.1
17.5°	697.4
20°	562.6
22.5°	489.8
25°	435.9
27.5°	386.5
30°	340.6
32.5°	300.2
35°	260.6
37.5°	224.7
40°	192.3
42.5°	163.6
45°	133.9
47.5°	97.1
50°	62.9
52.5°	29.7
55°	16.2
57.5°	11.7
60°	9.0
62.5°	6.3
65°	4.5
67.5°	1.8
70°	1.8
72.5°	0.9
75°	0.9
77.5°	0.9
80°	0.9
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)