

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: P640887

Luminaire Tested: ML5612LSNFL2597FS1E - 591WB - 1200LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640887
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSNFL2597FS1E - 591WB - 1200LM - 3000K
Description: ML56 RR, 25D TIR OPTIC, 5" DEADFRONT TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1442.7 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

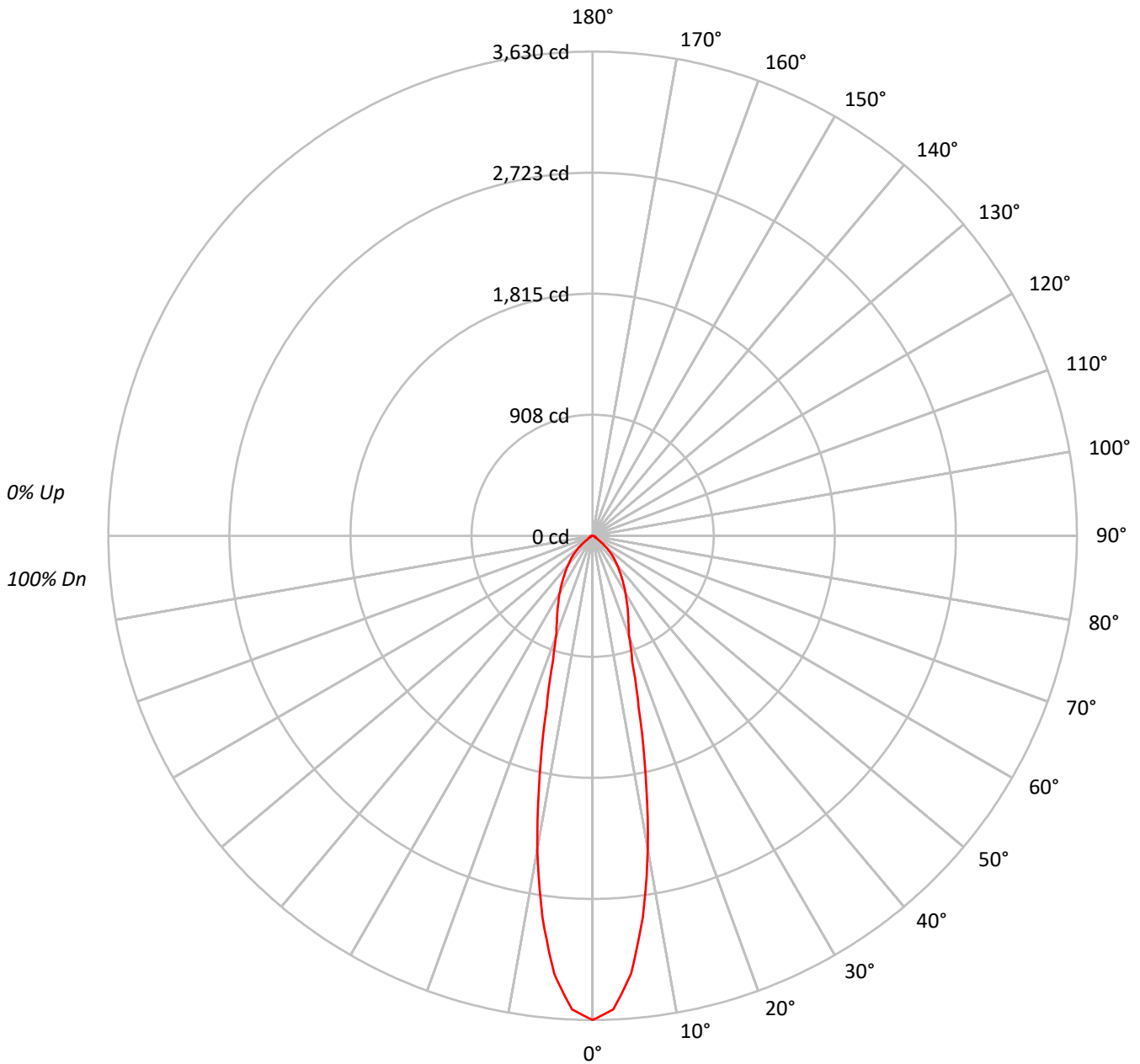
Input Watts (W): 16.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	113	110	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93																			
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86																			
3	102	95	90	86	100	94	89	86	91	87	84	89	86	83	87	84	82	80																			
4	97	89	84	79	95	88	83	79	86	81	78	84	80	77	82	79	76	75																			
5	92	84	78	74	90	83	77	73	81	76	73	79	75	72	78	74	71	70																			
6	88	79	73	69	86	78	72	68	77	72	68	75	71	67	74	70	67	66																			
7	84	75	69	64	82	74	68	64	73	68	64	71	67	64	70	66	63	62																			
8	80	71	65	61	79	70	64	61	69	64	60	68	63	60	67	63	60	58																			
9	77	67	61	58	76	67	61	57	66	61	57	65	60	57	64	60	57	56																			
10	73	64	58	55	72	64	58	55	63	58	54	62	58	54	61	57	54	53																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	286548
5°	261254
10°	191179
15°	108842
20°	67013
25°	54447
30°	44847
35°	36408
40°	29410
45°	23511
50°	15351
55°	6730
60°	4294
65°	3811
70°	3439
75°	3325
80°	3728
85°	3714

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 23511 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.9	19.8
10°-20°	383.4	26.6
20°-30°	287.9	20.0
30°-40°	237.4	16.5
40°-50°	158.3	11.0
50°-60°	53.7	3.7
60°-70°	20.7	1.4
70°-80°	11.7	0.8
80°-90°	4.8	0.3
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°	956.3	66.3
0°-40°	1193.6	82.7
0°-60°	1405.6	97.4
0°-90°	1442.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1442.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3630	
5°	3297	285
15°	1332	383
25°	625	288
35°	378	237
45°	211	158
55°	49	54
65°	20	21
75°	11	12
85°	4	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3629.9
2.5°	3555.1
5°	3296.9
7.5°	2882.4
10°	2385.0
12.5°	1830.6
15°	1331.8
17.5°	988.0
20°	797.7
22.5°	698.5
25°	625.1
27.5°	554.5
30°	492.0
32.5°	432.2
35°	377.8
37.5°	328.9
40°	285.4
42.5°	246.0
45°	210.6
47.5°	164.4
50°	125.0
52.5°	85.6
55°	48.9
57.5°	32.6
60°	27.2
62.5°	24.5
65°	20.4
67.5°	17.7
70°	14.9
72.5°	12.2
75°	10.9
77.5°	9.5
80°	8.2
82.5°	6.8
85°	4.1
87.5°	2.7
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)