

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: P642087

Luminaire Tested: ML5612LSWFL5597FS1E - 596WB - 1200LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642087
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-58)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSWFL5597FS1E - 596WB - 1200LM - 3000K
Description: ML56 RR, 55D TIR OPTIC, 5" SHALLOW WHITE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1562.3 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

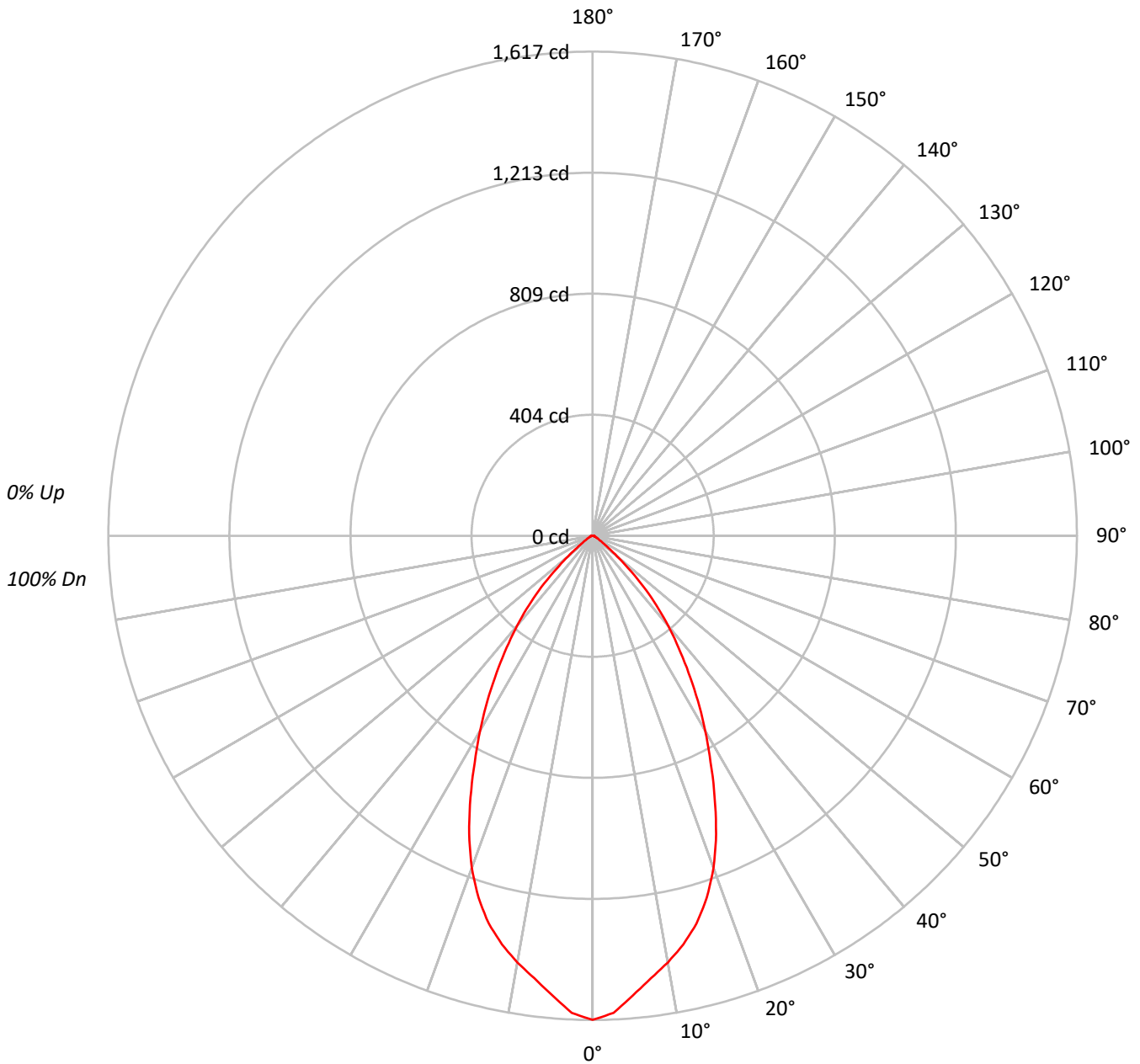
Input Watts (W): 16.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									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	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	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92																																				
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86	85																																				
3	101	94	88	84	99	92	87	83	90	85	82	87	84	81	85	82	79	78																																				
4	95	87	81	76	93	86	80	76	84	79	75	81	77	74	80	76	73	72																																				
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66																																				
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	63	61																																				
7	80	70	64	59	79	70	63	59	68	63	59	67	62	58	66	61	58	57																																				
8	76	66	59	55	75	65	59	55	64	59	55	63	58	54	62	58	54	53																																				
9	72	62	55	51	71	61	55	51	60	55	51	59	54	51	59	54	51	49																																				
10	69	58	52	48	67	58	52	48	57	51	48	56	51	48	55	51	47	46																																				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	127616
5°	122073
10°	115974
15°	109578
20°	99170
25°	84010
30°	68474
35°	53803
40°	40457
45°	26994
50°	13018
55°	5794
60°	3647
65°	2540
70°	1893
75°	1251
80°	2455
85°	3714

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 26994 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.2	9.2
10°-20°	373.2	23.9
20°-30°	440.8	28.2
30°-40°	349.7	22.4
40°-50°	184.3	11.8
50°-60°	44.9	2.9
60°-70°	14.3	0.9
70°-80°	6.5	0.4
80°-90°	4.4	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°	958.2	61.3
0°-40°	1307.9	83.7
0°-60°	1537.1	98.4
0°-90°	1562.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1562.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1617	
5°	1540	144
15°	1341	373
25°	964	441
35°	558	350
45°	242	184
55°	42	45
65°	14	14
75°	4	6
85°	4	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1616.6
2.5°	1594.9
5°	1540.5
7.5°	1490.3
10°	1446.8
12.5°	1397.9
15°	1340.8
17.5°	1267.5
20°	1180.5
22.5°	1077.3
25°	964.5
27.5°	853.1
30°	751.2
32.5°	653.4
35°	558.3
37.5°	471.4
40°	392.6
42.5°	315.2
45°	241.8
47.5°	161.7
50°	106.0
52.5°	66.6
55°	42.1
57.5°	29.9
60°	23.1
62.5°	17.7
65°	13.6
67.5°	10.9
70°	8.2
72.5°	6.8
75°	4.1
77.5°	6.8
80°	5.4
82.5°	5.4
85°	4.1
87.5°	4.1
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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