

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: P642090

Luminaire Tested: ML5612LSWFL5597FS1E - 596WB - 1200LM - 5000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642090
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 - 5000K
Description: ML56 RR, 55D TIR OPTIC, 5" SHALLOW WHITE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1727.3 lumens
Efficiency: N/A
Efficacy: 104.7 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

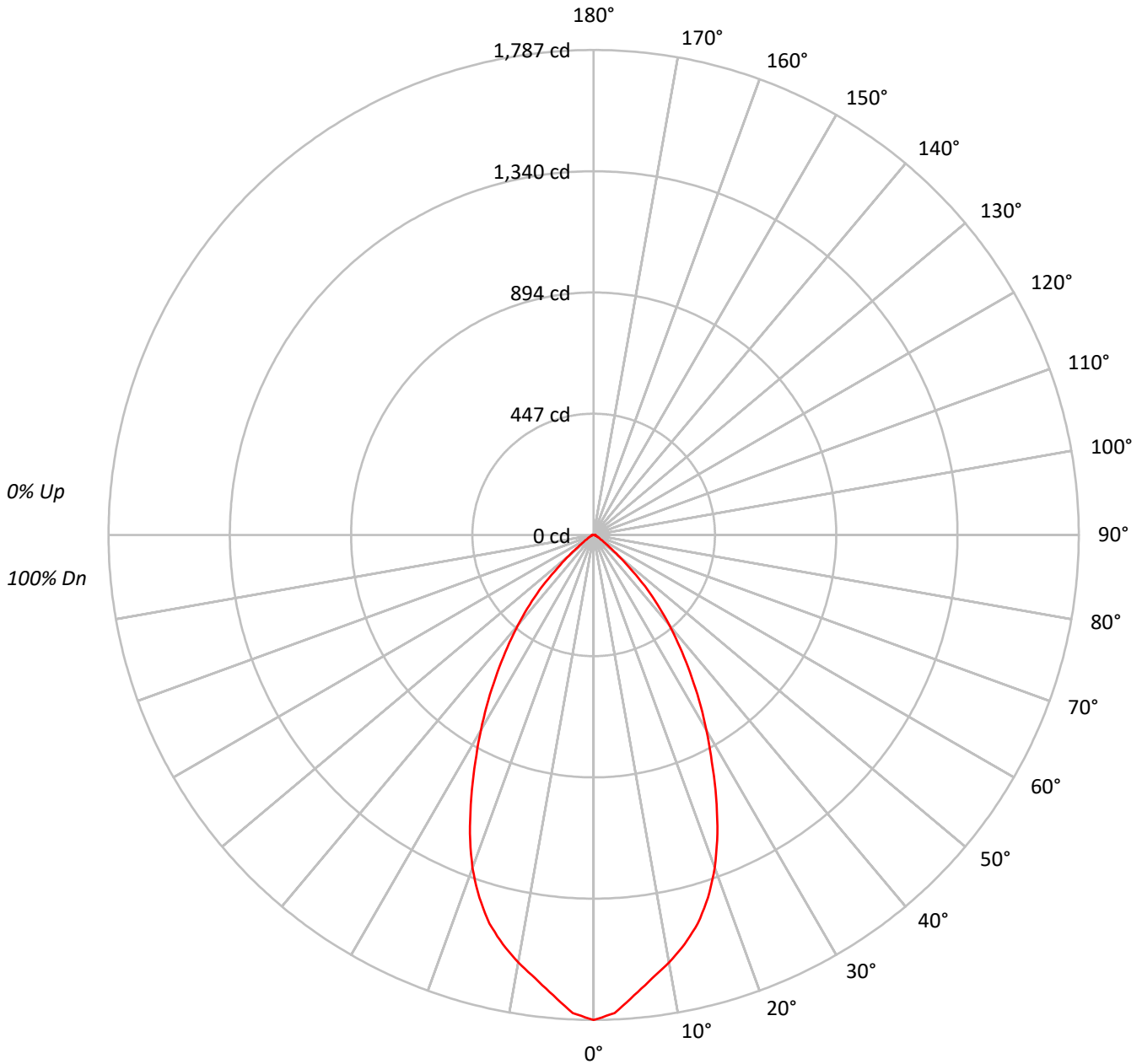
Input Watts (W): 16.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	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°	141099
5°	134974
10°	128230
15°	121158
20°	109655
25°	92894
30°	75712
35°	59489
40°	44734
45°	29852
50°	14393
55°	6414
60°	4026
65°	2802
70°	2077
75°	1373
80°	2728
85°	4076

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 29852 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.4	9.2
10°-20°	412.6	23.9
20°-30°	487.4	28.2
30°-40°	386.7	22.4
40°-50°	203.8	11.8
50°-60°	49.6	2.9
60°-70°	15.7	0.9
70°-80°	7.1	0.4
80°-90°	4.9	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°	1059.5	61.3
0°-40°	1446.2	83.7
0°-60°	1699.5	98.4
0°-90°	1727.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1727.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1787	
5°	1703	159
15°	1482	413
25°	1066	487
35°	617	387
45°	267	204
55°	47	50
65°	15	16
75°	4	7
85°	4	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1787.4
2.5°	1763.4
5°	1703.3
7.5°	1647.7
10°	1599.7
12.5°	1545.6
15°	1482.5
17.5°	1401.4
20°	1305.3
22.5°	1191.1
25°	1066.5
27.5°	943.3
30°	830.6
32.5°	722.5
35°	617.3
37.5°	521.2
40°	434.1
42.5°	348.5
45°	267.4
47.5°	178.7
50°	117.2
52.5°	73.6
55°	46.6
57.5°	33.0
60°	25.5
62.5°	19.5
65°	15.0
67.5°	12.0
70°	9.0
72.5°	7.5
75°	4.5
77.5°	7.5
80°	6.0
82.5°	6.0
85°	4.5
87.5°	4.5
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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