

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: P642094

Luminaire Tested: ML5612LSWFL5597FS1E - 596WB - 600LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642094
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 - 600LM - 4000K
Description: ML56 RR, 55D TIR OPTIC, 5" SHALLOW WHITE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1111.8 lumens
Efficiency: N/A
Efficacy: 107.9 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

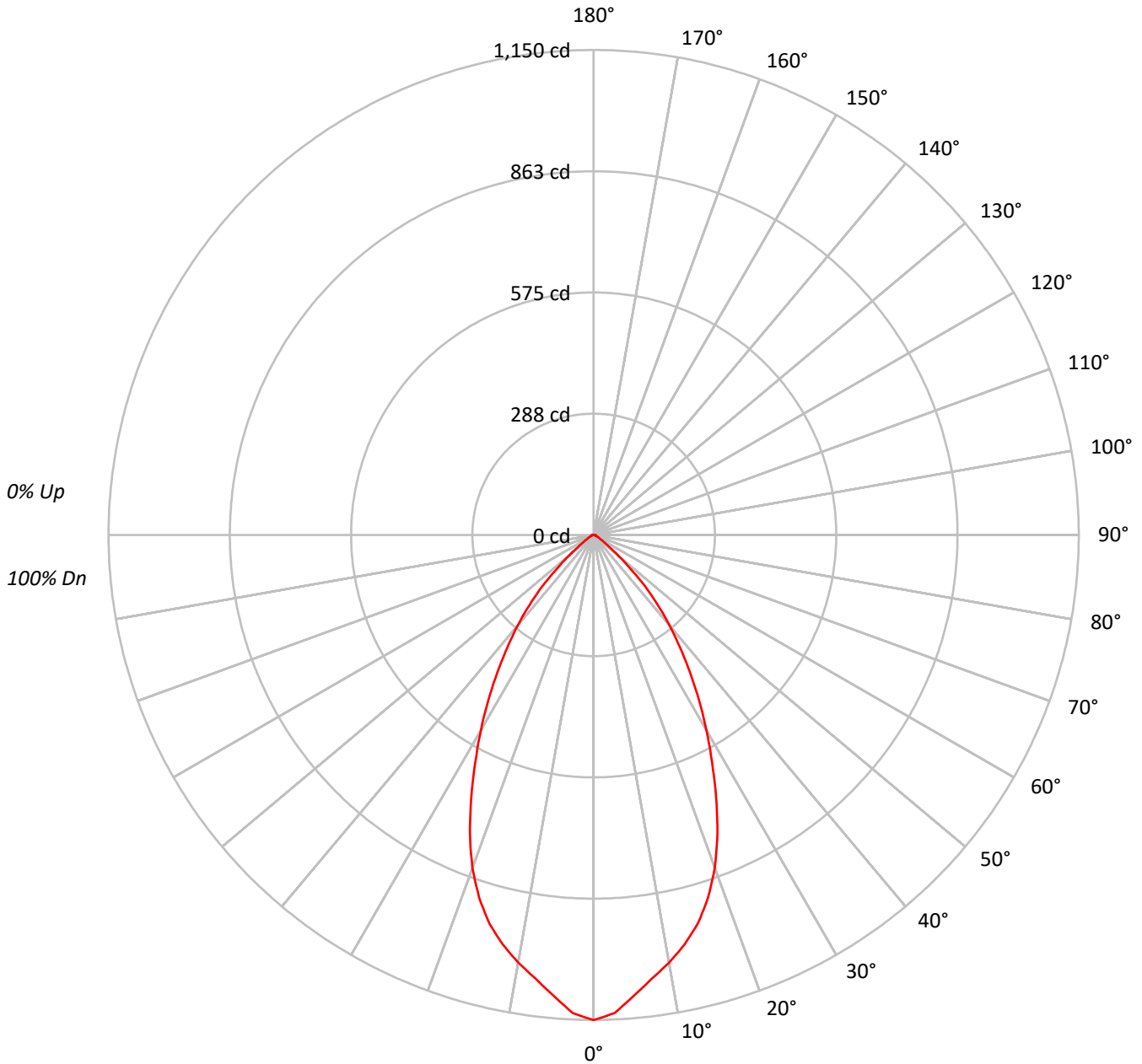
Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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			100																
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92			92																
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86	85			85																
3	101	94	88	84	99	92	87	83	90	85	82	87	84	81	85	82	79	78			78																
4	95	87	81	76	93	86	80	76	84	79	75	81	77	74	80	76	73	72			72																
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66			66																
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	63	61			61																
7	80	70	64	59	79	70	63	59	68	63	59	67	62	58	66	61	58	57			57																
8	76	66	59	55	75	65	59	55	64	59	55	63	58	54	62	58	54	53			53																
9	72	62	55	51	71	61	55	51	60	55	51	59	54	51	59	54	51	49			49																
10	69	58	52	48	67	58	52	48	57	51	48	56	51	48	55	51	47	46			46																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	90814
5°	86874
10°	82531
15°	77983
20°	70574
25°	59787
30°	48730
35°	38287
40°	28792
45°	19213
50°	9260
55°	4129
60°	2589
65°	1812
70°	1339
75°	885
80°	1773
85°	2627

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 19213 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.6	9.2
10°-20°	265.6	23.9
20°-30°	313.7	28.2
30°-40°	248.9	22.4
40°-50°	131.1	11.8
50°-60°	31.9	2.9
60°-70°	10.1	0.9
70°-80°	4.6	0.4
80°-90°	3.2	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°	681.9	61.3
0°-40°	930.8	83.7
0°-60°	1093.9	98.4
0°-90°	1111.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1111.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1150	
5°	1096	103
15°	954	266
25°	686	314
35°	397	249
45°	172	131
55°	30	32
65°	10	10
75°	3	5
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1150.4
2.5°	1135.0
5°	1096.3
7.5°	1060.5
10°	1029.6
12.5°	994.8
15°	954.2
17.5°	902.0
20°	840.1
22.5°	766.6
25°	686.4
27.5°	607.1
30°	534.6
32.5°	465.0
35°	397.3
37.5°	335.5
40°	279.4
42.5°	224.3
45°	172.1
47.5°	115.0
50°	75.4
52.5°	47.4
55°	30.0
57.5°	21.3
60°	16.4
62.5°	12.6
65°	9.7
67.5°	7.7
70°	5.8
72.5°	4.8
75°	2.9
77.5°	4.8
80°	3.9
82.5°	3.9
85°	2.9
87.5°	2.9
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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