

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: P641929

Luminaire Tested: ML5612LSWFL5597FS1E - 591WB - 600LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641929
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-47)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSWFL5597FS1E - 591WB - 600LM - 4000K
Description: ML56 RR, 55D TIR OPTIC, 5" DEADFRONT TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

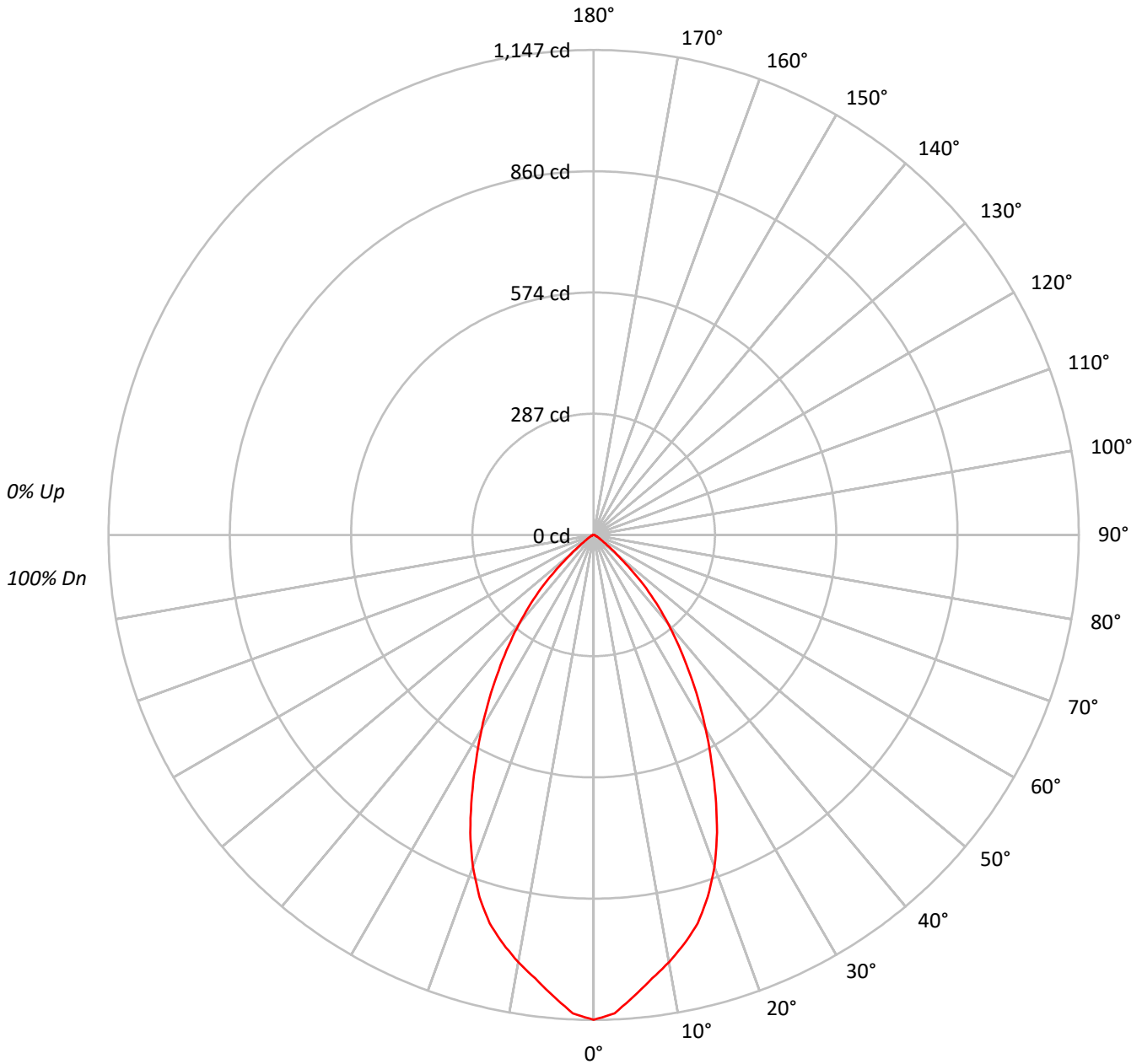
Lumens per Lamp: N/A
Luminaire Lumens: 1090.5 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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					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			100	
1	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93			93	
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85			85	
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	82	80	78			78	
4	95	87	81	77	94	86	81	76	84	79	76	82	78	75	80	77	74	72			72	
5	90	81	75	70	88	80	74	70	78	73	69	77	72	69	75	71	68	67			67	
6	85	76	69	65	84	75	69	65	73	68	64	72	67	64	71	66	63	62			62	
7	81	71	64	60	79	70	64	60	69	63	59	68	63	59	66	62	59	57			57	
8	76	66	60	56	75	66	60	55	65	59	55	64	59	55	63	58	55	53			53	
9	73	62	56	52	71	62	56	52	61	55	51	60	55	51	59	54	51	50			50	
10	69	59	53	48	68	58	52	48	57	52	48	57	52	48	56	51	48	47			47	

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	90529
5°	86747
10°	82251
15°	77697
20°	70129
25°	59334
30°	48266
35°	37709
40°	28174
45°	18554
50°	8658
55°	3592
60°	2131
65°	1270
70°	900
75°	885
80°	864
85°	906

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 18554 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.4	9.4
10°-20°	264.4	24.2
20°-30°	311.4	28.6
30°-40°	245.3	22.5
40°-50°	127.0	11.6
50°-60°	28.2	2.6
60°-70°	7.4	0.7
70°-80°	3.1	0.3
80°-90°	1.3	0.1
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°	678.1	62.2
0°-40°	923.5	84.7
0°-60°	1078.7	98.9
0°-90°	1090.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1090.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1147	
5°	1095	102
15°	951	264
25°	681	311
35°	391	245
45°	166	127
55°	26	28
65°	7	7
75°	3	3
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1146.8
2.5°	1132.4
5°	1094.7
7.5°	1058.0
10°	1026.1
12.5°	990.3
15°	950.7
17.5°	897.6
20°	834.8
22.5°	762.3
25°	681.2
27.5°	601.9
30°	529.5
32.5°	458.9
35°	391.3
37.5°	330.4
40°	273.4
42.5°	219.3
45°	166.2
47.5°	110.1
50°	70.5
52.5°	42.5
55°	26.1
57.5°	17.4
60°	13.5
62.5°	9.7
65°	6.8
67.5°	4.8
70°	3.9
72.5°	2.9
75°	2.9
77.5°	2.9
80°	1.9
82.5°	1.9
85°	1.0
87.5°	1.0
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)