

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: P642244

Luminaire Tested: ML5612LSWFL5597FS1E - 694WB - 600LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642244
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-67)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSWFL5597FS1E - 694WB - 600LM - 4000K
Description: ML56 RR, 55D TIR OPTIC, 6" WHITE GIMBAL TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1099.2 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

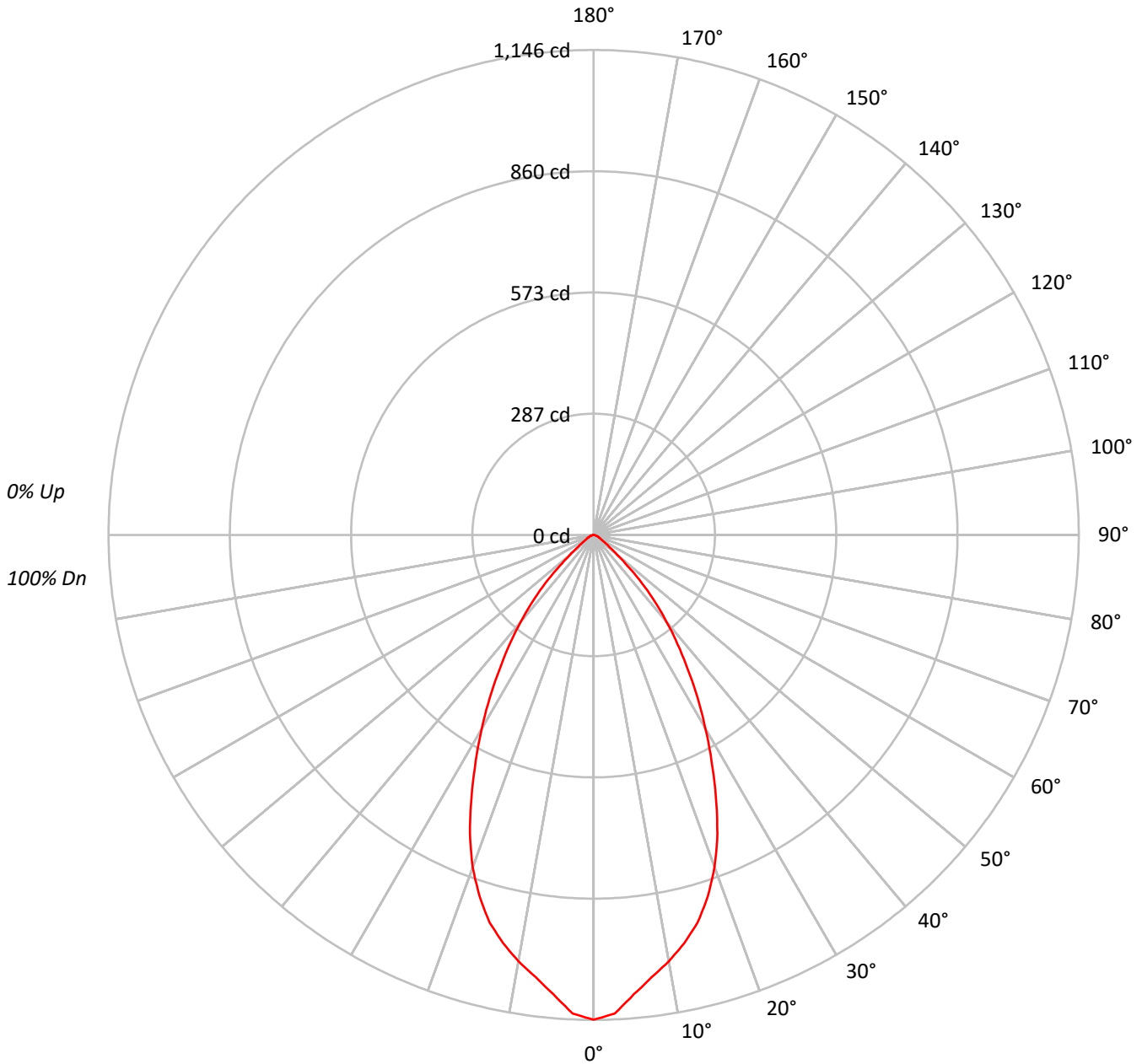
Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	62802
5°	59960
10°	56941
15°	53826
20°	48730
25°	41283
30°	33417
35°	25946
40°	19164
45°	12590
50°	6098
55°	3230
60°	2226
65°	1751
70°	1555
75°	1017
80°	600
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12590 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.0	9.3
10°-20°	263.9	24.0
20°-30°	311.8	28.4
30°-40°	243.2	22.1
40°-50°	124.3	11.3
50°-60°	33.9	3.1
60°-70°	14.0	1.3
70°-80°	5.6	0.5
80°-90°	0.5	0.0
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°	677.7	61.7
0°-40°	920.9	83.8
0°-60°	1079.1	98.2
0°-90°	1099.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1099.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1146	
5°	1090	102
15°	948	264
25°	682	312
35°	388	243
45°	162	124
55°	34	34
65°	14	14
75°	5	6
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1145.6
2.5°	1132.1
5°	1089.6
7.5°	1053.8
10°	1022.9
12.5°	988.1
15°	948.4
17.5°	896.2
20°	835.3
22.5°	763.8
25°	682.5
27.5°	603.3
30°	527.9
32.5°	457.3
35°	387.7
37.5°	325.8
40°	267.8
42.5°	213.7
45°	162.4
47.5°	107.3
50°	71.5
52.5°	48.3
55°	33.8
57.5°	25.1
60°	20.3
62.5°	16.4
65°	13.5
67.5°	11.6
70°	9.7
72.5°	6.8
75°	4.8
77.5°	3.9
80°	1.9
82.5°	1.0
85°	0.0
87.5°	0.0
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)