

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: P642263

Luminaire Tested: ML5612LSWFL5597FS1E - 696WB - 900LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642263
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-69)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSWFL5597FS1E - 696WB - 900LM - 3500K
Description: ML56 RR, 55D TIR OPTIC, 6" SHALLOW WHITE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

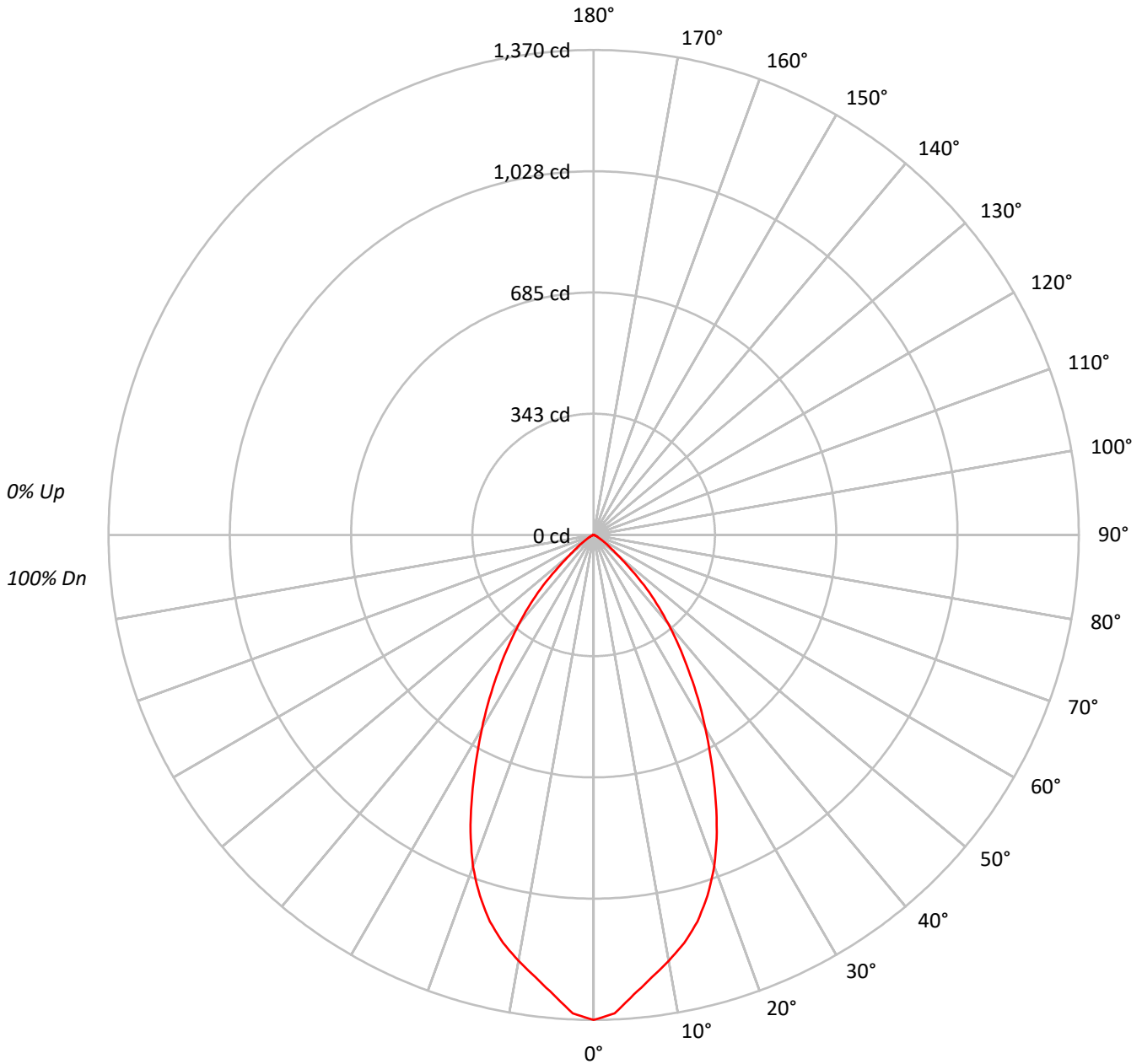
Lumens per Lamp: N/A
Luminaire Lumens: 1308.4 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 13.3
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									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	111	108	106	103	104	102	100	100	99	97	97	96	94	93																											
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85																											
3	101	94	89	84	99	93	88	84	90	86	82	88	84	81	85	82	80	78																											
4	95	87	81	77	93	86	81	76	84	79	75	82	78	74	80	76	74	72																											
5	90	81	75	70	88	80	74	70	78	73	69	77	72	69	75	71	68	66																											
6	85	76	69	65	84	75	69	64	73	68	64	72	67	63	70	66	63	61																											
7	80	71	64	60	79	70	64	59	69	63	59	67	62	59	66	62	58	57																											
8	76	66	60	55	75	65	59	55	64	59	55	63	58	55	62	58	54	53																											
9	72	62	56	52	71	62	56	51	61	55	51	60	55	51	59	54	51	49																											
10	69	58	52	48	68	58	52	48	57	52	48	56	51	48	56	51	48	46																											

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	75104
5°	71709
10°	67979
15°	64206
20°	58123
25°	49176
30°	39930
35°	31253
40°	23437
45°	15645
50°	7573
55°	3966
60°	2028
65°	1349
70°	561
75°	487
80°	379
85°	755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15645 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.9	9.3
10°-20°	314.9	24.1
20°-30°	371.5	28.4
30°-40°	293.0	22.4
40°-50°	153.6	11.7
50°-60°	40.1	3.1
60°-70°	10.1	0.8
70°-80°	2.4	0.2
80°-90°	0.8	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°	808.4	61.8
0°-40°	1101.4	84.2
0°-60°	1295.1	99.0
0°-90°	1308.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1308.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1370	
5°	1303	122
15°	1131	315
25°	813	371
35°	467	293
45°	202	154
55°	42	40
65°	10	10
75°	2	2
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1370.0
2.5°	1352.7
5°	1303.1
7.5°	1260.4
10°	1221.2
12.5°	1180.8
15°	1131.3
17.5°	1069.0
20°	996.3
22.5°	908.7
25°	813.0
27.5°	718.4
30°	630.8
32.5°	547.8
35°	467.0
37.5°	395.5
40°	327.5
42.5°	262.9
45°	201.8
47.5°	133.8
50°	88.8
52.5°	60.0
55°	41.5
57.5°	26.5
60°	18.5
62.5°	13.8
65°	10.4
67.5°	5.8
70°	3.5
72.5°	2.3
75°	2.3
77.5°	2.3
80°	1.2
82.5°	1.2
85°	1.2
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)