

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: P642255

Luminaire Tested: ML5612LSWFL5597FS1E - 696WB - 1200LM - 5000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642255
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 - 1200LM - 5000K
Description: ML56 RR, 55D TIR OPTIC, 6" SHALLOW WHITE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

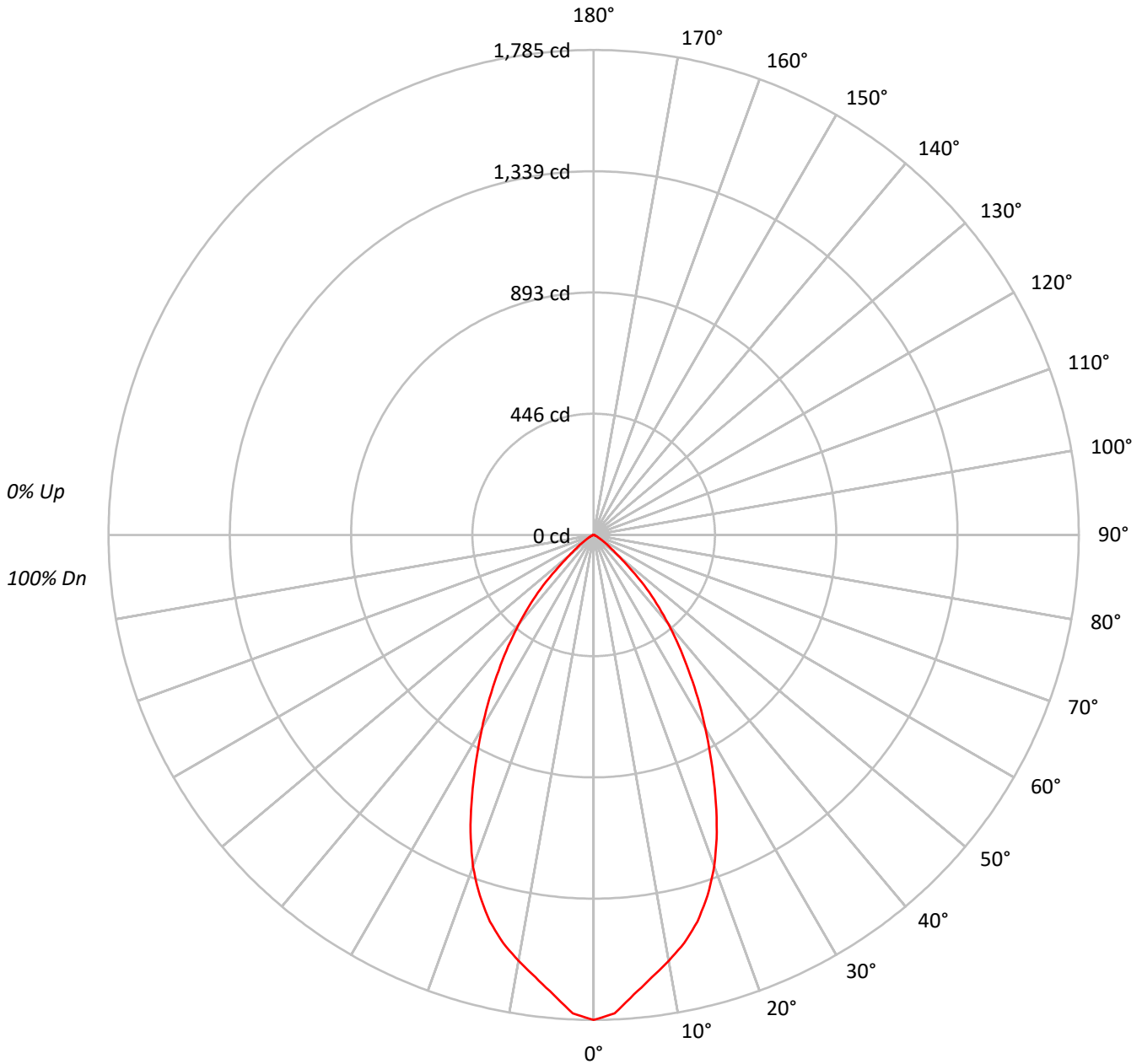
Lumens per Lamp: N/A
Luminaire Lumens: 1704.8 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	97859
5°	93435
10°	88576
15°	83655
20°	75735
25°	64074
30°	52027
35°	40723
40°	30536
45°	20390
50°	9867
55°	5171
60°	2631
65°	1751
70°	721
75°	635
80°	474
85°	943

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 20390 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.9	9.3
10°-20°	410.4	24.1
20°-30°	484.0	28.4
30°-40°	381.8	22.4
40°-50°	200.1	11.7
50°-60°	52.3	3.1
60°-70°	13.1	0.8
70°-80°	3.2	0.2
80°-90°	1.0	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°	1053.3	61.8
0°-40°	1435.1	84.2
0°-60°	1687.5	99.0
0°-90°	1704.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1704.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1785	
5°	1698	159
15°	1474	410
25°	1059	484
35°	608	382
45°	263	200
55°	54	52
65°	14	13
75°	3	3
85°	2	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1785.1
2.5°	1762.5
5°	1697.9
7.5°	1642.3
10°	1591.2
12.5°	1538.6
15°	1474.0
17.5°	1392.9
20°	1298.2
22.5°	1184.0
25°	1059.3
27.5°	936.1
30°	821.9
32.5°	713.7
35°	608.5
37.5°	515.4
40°	426.7
42.5°	342.6
45°	263.0
47.5°	174.3
50°	115.7
52.5°	78.1
55°	54.1
57.5°	34.6
60°	24.0
62.5°	18.0
65°	13.5
67.5°	7.5
70°	4.5
72.5°	3.0
75°	3.0
77.5°	3.0
80°	1.5
82.5°	1.5
85°	1.5
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)