

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: P640879

Luminaire Tested: ML5612LSFL4097FS1E - 696WB - 600LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640879
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-46)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSFL4097FS1E - 696WB - 600LM - 4000K
Description: ML56 RR, 40D TIR OPTIC, 6" SHALLOW WHITE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

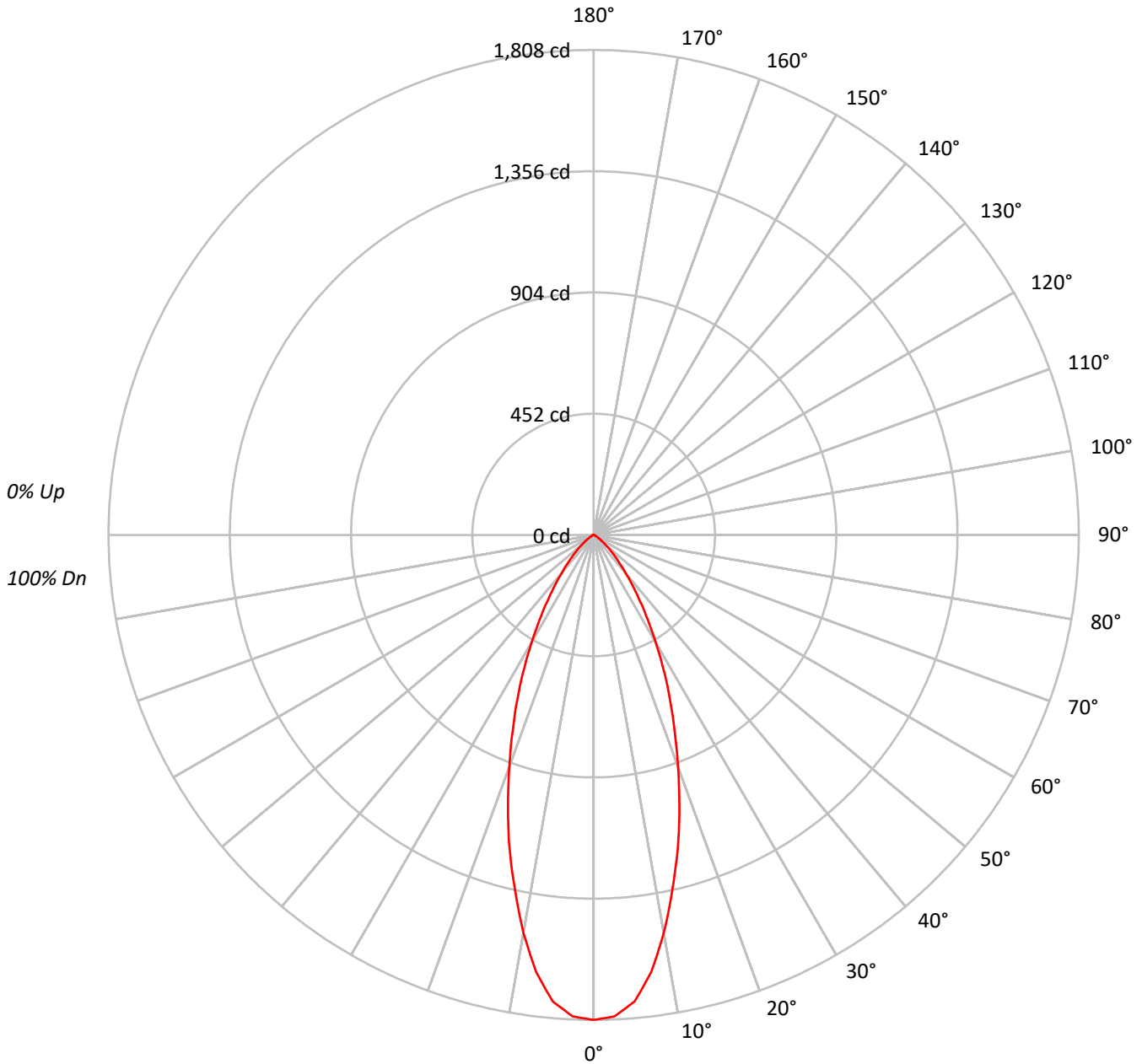
Lumens per Lamp: N/A
Luminaire Lumens: 1115.7 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Spacing Criteria (0/90/45): 0.64 / 0.64 / 0.69
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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	114	111	108	106	111	109	106	104	105	103	101	101	100	98	97	96	95	94			94																
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	93	91	89	87			87																
3	103	96	91	87	101	95	90	87	92	89	85	90	87	84	88	85	83	81			81																
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76			76																
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71			71																
6	88	80	74	70	87	79	73	69	77	72	69	76	72	68	75	71	68	66			66																
7	84	75	69	65	83	74	69	65	73	68	65	72	68	64	71	67	64	63			63																
8	80	71	65	61	79	70	65	61	69	64	61	68	64	61	67	63	60	59			59																
9	77	67	62	58	76	67	61	58	66	61	57	65	60	57	64	60	57	56			56																
10	73	64	58	55	72	64	58	55	63	58	54	62	57	54	61	57	54	53			53																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	99109
5°	96087
10°	83855
15°	68769
20°	53607
25°	40563
30°	29239
35°	20043
40°	13139
45°	8544
50°	5023
55°	2772
60°	1590
65°	882
70°	465
75°	212
80°	316
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8544 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.8	14.2
10°-20°	334.5	30.0
20°-30°	307.4	27.6
30°-40°	190.4	17.1
40°-50°	87.1	7.8
50°-60°	28.2	2.5
60°-70°	7.4	0.7
70°-80°	1.5	0.1
80°-90°	0.4	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°	800.6	71.8
0°-40°	991.0	88.8
0°-60°	1106.3	99.2
0°-90°	1115.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1115.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1808	
5°	1746	159
15°	1212	334
25°	671	307
35°	300	190
45°	110	87
55°	29	28
65°	7	7
75°	1	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1807.9
2.5°	1796.3
5°	1746.1
7.5°	1642.7
10°	1506.4
12.5°	1353.8
15°	1211.7
17.5°	1061.0
20°	918.9
22.5°	787.5
25°	670.6
27.5°	561.4
30°	461.9
32.5°	374.9
35°	299.5
37.5°	236.7
40°	183.6
42.5°	143.0
45°	110.2
47.5°	82.1
50°	58.9
52.5°	41.6
55°	29.0
57.5°	20.3
60°	14.5
62.5°	10.6
65°	6.8
67.5°	3.9
70°	2.9
72.5°	1.9
75°	1.0
77.5°	1.0
80°	1.0
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)