

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: P640850

Luminaire Tested: ML5612LSFL4097FS1E - 694TBZB - 600LM - 5000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640850
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-45)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSFL4097FS1E - 694TBZB - 600LM - 5000K
Description: ML56 RR, 40D TIR OPTIC, 6" TUSCON BRONZE GIMBAL TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

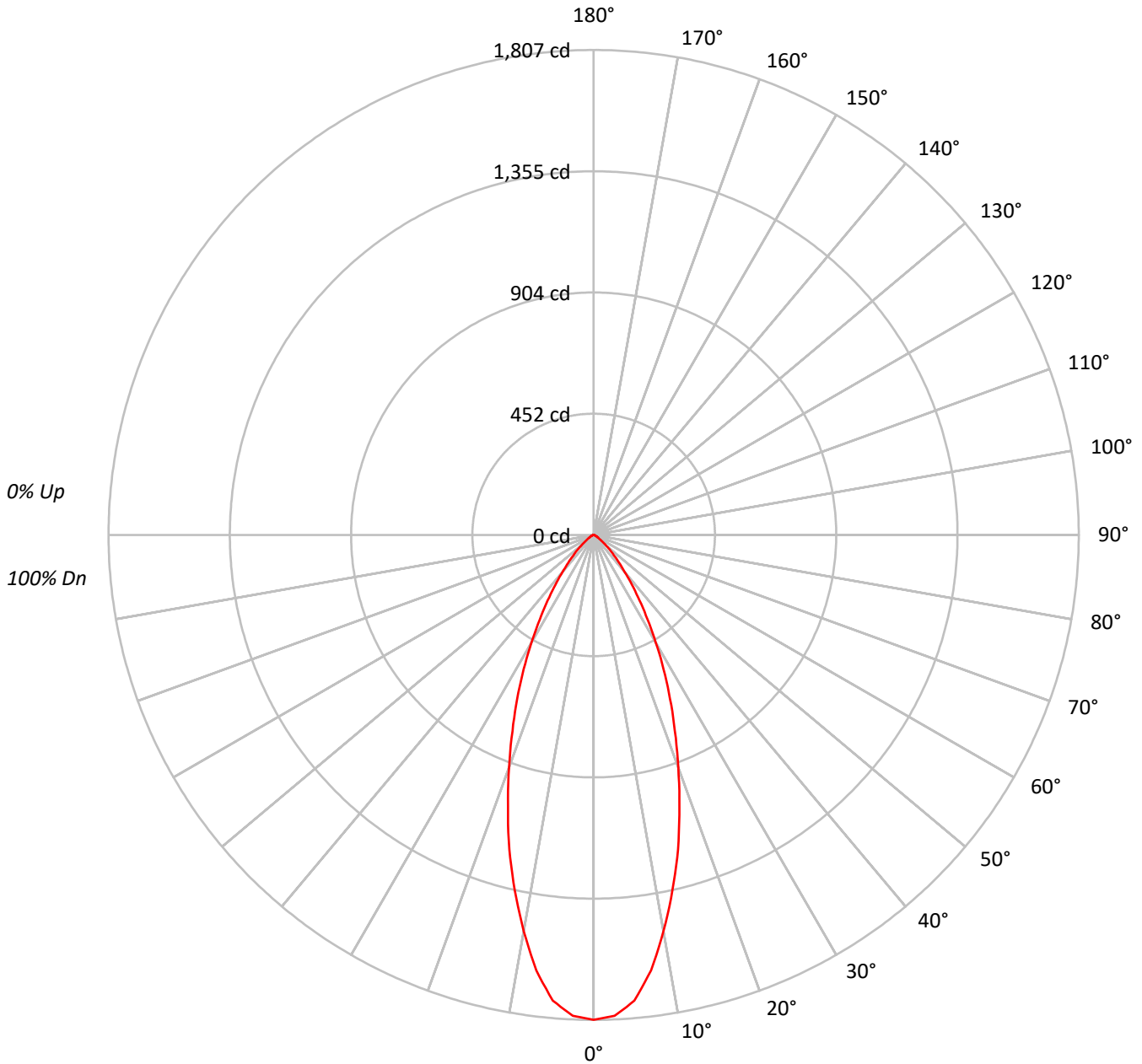
Lumens per Lamp: N/A
Luminaire Lumens: 1117.0 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Spacing Criteria (0/90/45): 0.64 / 0.64 / 0.69
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (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					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				
1	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	93				
2	108	103	99	96	106	101	98	95	98	95	92	95	93	91	92	90	89	87				
3	103	96	91	87	101	95	90	87	92	88	85	90	87	84	87	85	83	81				
4	97	90	85	80	96	89	84	80	87	82	79	85	81	78	83	80	77	76				
5	93	84	79	74	91	84	78	74	82	77	73	80	76	73	79	75	72	71				
6	88	79	74	69	87	79	73	69	77	72	69	76	71	68	74	71	68	66				
7	84	75	69	65	83	74	69	65	73	68	64	72	67	64	71	67	64	62				
8	80	71	65	61	79	70	65	61	69	64	61	68	64	60	67	63	60	59				
9	77	67	61	58	76	67	61	57	66	61	57	65	60	57	64	60	57	56				
10	73	64	58	54	72	63	58	54	63	58	54	62	57	54	61	57	54	53				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	99049
5°	95862
10°	83454
15°	68894
20°	53718
25°	40720
30°	29264
35°	19936
40°	12874
45°	8249
50°	4870
55°	2686
60°	1798
65°	1258
70°	930
75°	614
80°	316
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8249 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.3	14.2
10°-20°	334.7	30.0
20°-30°	308.4	27.6
30°-40°	189.0	16.9
40°-50°	84.6	7.6
50°-60°	27.9	2.5
60°-70°	10.4	0.9
70°-80°	3.4	0.3
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°	801.4	71.7
0°-40°	990.4	88.7
0°-60°	1102.8	98.7
0°-90°	1117.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1117.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1807	
5°	1742	158
15°	1214	335
25°	673	308
35°	298	189
45°	106	85
55°	28	28
65°	10	10
75°	3	3
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1806.8
2.5°	1793.3
5°	1742.0
7.5°	1636.6
10°	1499.2
12.5°	1356.1
15°	1213.9
17.5°	1061.1
20°	920.8
22.5°	790.2
25°	673.2
27.5°	563.9
30°	462.3
32.5°	373.4
35°	297.9
37.5°	233.1
40°	179.9
42.5°	139.3
45°	106.4
47.5°	79.3
50°	57.1
52.5°	39.7
55°	28.1
57.5°	21.3
60°	16.4
62.5°	13.5
65°	9.7
67.5°	7.7
70°	5.8
72.5°	4.8
75°	2.9
77.5°	1.9
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)