

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: P640842

Luminaire Tested: ML5612LSFL4097FS1E - 694TBZB - 1200LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640842
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 - 1200LM - 3000K
Description: ML56 RR, 40D TIR OPTIC, 6" TUSCON BRONZE GIMBAL TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1569.1 lumens
Efficiency: N/A
Efficacy: 95.1 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

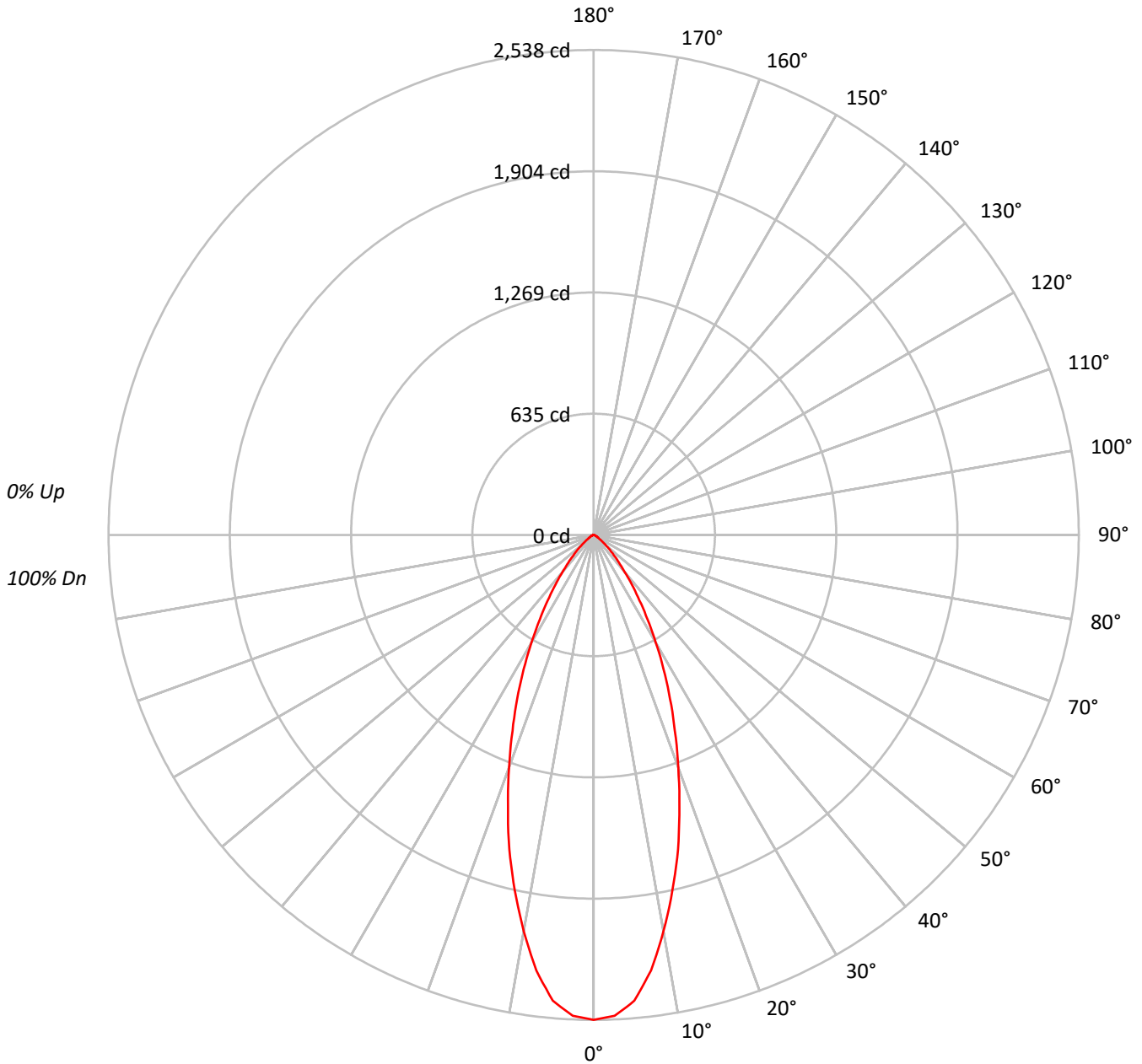
Input Watts (W): 16.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	139134
5°	134657
10°	117227
15°	96771
20°	75461
25°	57197
30°	41108
35°	28007
40°	18084
45°	11590
50°	6840
55°	3766
60°	2533
65°	1764
70°	1314
75°	868
80°	442
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11590 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.3	14.2
10°-20°	470.1	30.0
20°-30°	433.3	27.6
30°-40°	265.5	16.9
40°-50°	118.8	7.6
50°-60°	39.1	2.5
60°-70°	14.6	0.9
70°-80°	4.8	0.3
80°-90°	0.6	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°	1125.6	71.7
0°-40°	1391.1	88.7
0°-60°	1549.1	98.7
0°-90°	1569.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1569.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2538	
5°	2447	222
15°	1705	470
25°	946	433
35°	418	265
45°	150	119
55°	39	39
65°	14	15
75°	4	5
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2538.0
2.5°	2519.0
5°	2447.0
7.5°	2298.9
10°	2105.9
12.5°	1904.9
15°	1705.1
17.5°	1490.5
20°	1293.5
22.5°	1110.0
25°	945.6
27.5°	792.1
30°	649.4
32.5°	524.4
35°	418.5
37.5°	327.4
40°	252.7
42.5°	195.6
45°	149.5
47.5°	111.4
50°	80.2
52.5°	55.7
55°	39.4
57.5°	29.9
60°	23.1
62.5°	19.0
65°	13.6
67.5°	10.9
70°	8.2
72.5°	6.8
75°	4.1
77.5°	2.7
80°	1.4
82.5°	1.4
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)