

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: P641887

Luminaire Tested: ML5612LSVWFL97FS1E - 694TBZB - 900LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641887
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-114)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSVWFL97FS1E - 694TBZB - 900LM - 3000K
Description: ML56 RR, MILKY OPTIC, 6" TUSCON BRONZE GIMBAL TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

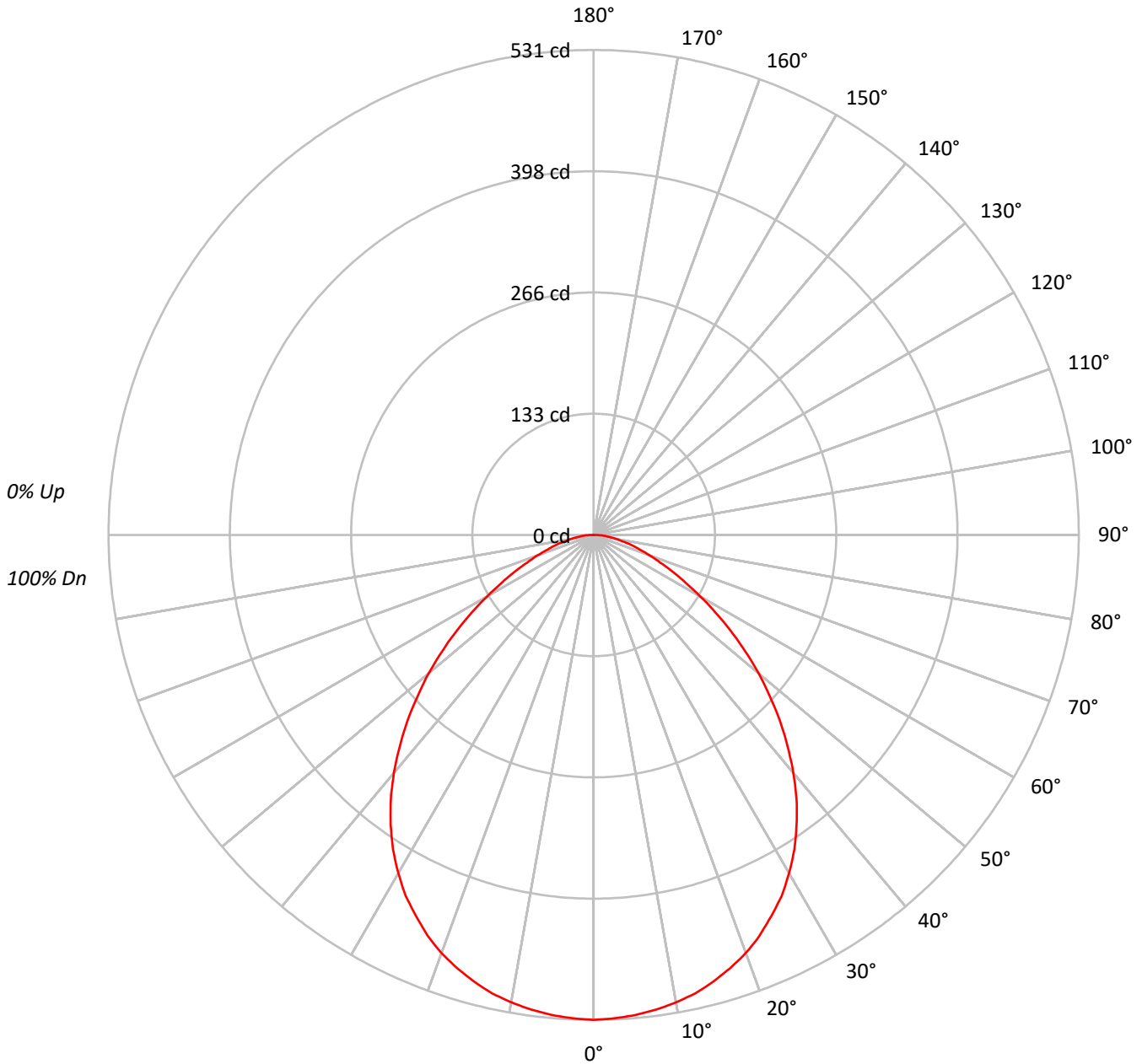
Lumens per Lamp: N/A
Luminaire Lumens: 1187.3 lumens
Efficiency: N/A
Efficacy: 89.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.27
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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									
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	110	106	102	99	107	104	100	97	100	97	94	96	93	91	92	90	89	87																			
2	101	94	88	83	99	92	87	82	89	84	80	85	82	78	82	79	76	74																			
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64																			
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56																			
5	80	68	59	53	78	67	59	53	64	58	52	63	57	52	61	56	51	49																			
6	74	61	53	47	72	60	53	47	59	52	46	57	51	46	56	50	46	44																			
7	69	56	48	42	67	55	47	42	54	47	41	52	46	41	51	45	41	39																			
8	64	51	43	38	63	51	43	38	49	42	37	48	42	37	47	41	37	35																			
9	60	47	39	34	59	47	39	34	46	39	34	45	38	34	44	38	34	32																			
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	40	35	31	29																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	29110
5°	29034
10°	28930
15°	28735
20°	28422
25°	27836
30°	27074
35°	25919
40°	24338
45°	22367
50°	20102
55°	17490
60°	14769
65°	12375
70°	10434
75°	9044
80°	7798
85°	7737

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 22367 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.1	4.2
10°-20°	142.8	12.0
20°-30°	211.9	17.8
30°-40°	241.5	20.3
40°-50°	222.0	18.7
50°-60°	164.1	13.8
60°-70°	95.7	8.1
70°-80°	45.6	3.8
80°-90°	13.8	1.2
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°	404.8	34.1
0°-40°	646.3	54.4
0°-60°	1032.3	86.9
0°-90°	1187.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1187.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	531	
5°	528	50
15°	506	143
25°	460	212
35°	387	242
45°	288	222
55°	183	164
65°	95	96
75°	43	46
85°	12	14
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	531.0
2.5°	529.8
5°	527.6
7.5°	524.2
10°	519.7
12.5°	514.1
15°	506.3
17.5°	497.3
20°	487.2
22.5°	474.8
25°	460.2
27.5°	445.6
30°	427.7
32.5°	408.6
35°	387.3
37.5°	364.8
40°	340.1
42.5°	314.3
45°	288.5
47.5°	261.5
50°	235.7
52.5°	208.8
55°	183.0
57.5°	158.3
60°	134.7
62.5°	113.4
65°	95.4
67.5°	78.6
70°	65.1
72.5°	52.8
75°	42.7
77.5°	32.6
80°	24.7
82.5°	18.0
85°	12.3
87.5°	7.9
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)