

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P642054

Luminaire Tested: ML5612LSWFL5597FS1E - 594SNB - 900LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642054
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-56)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSWFL5597FS1E - 594SNB - 900LM - 4000K
Description: ML56 RR, 55D TIR OPTIC, 5" SATIN NICKLE GIMBAL TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

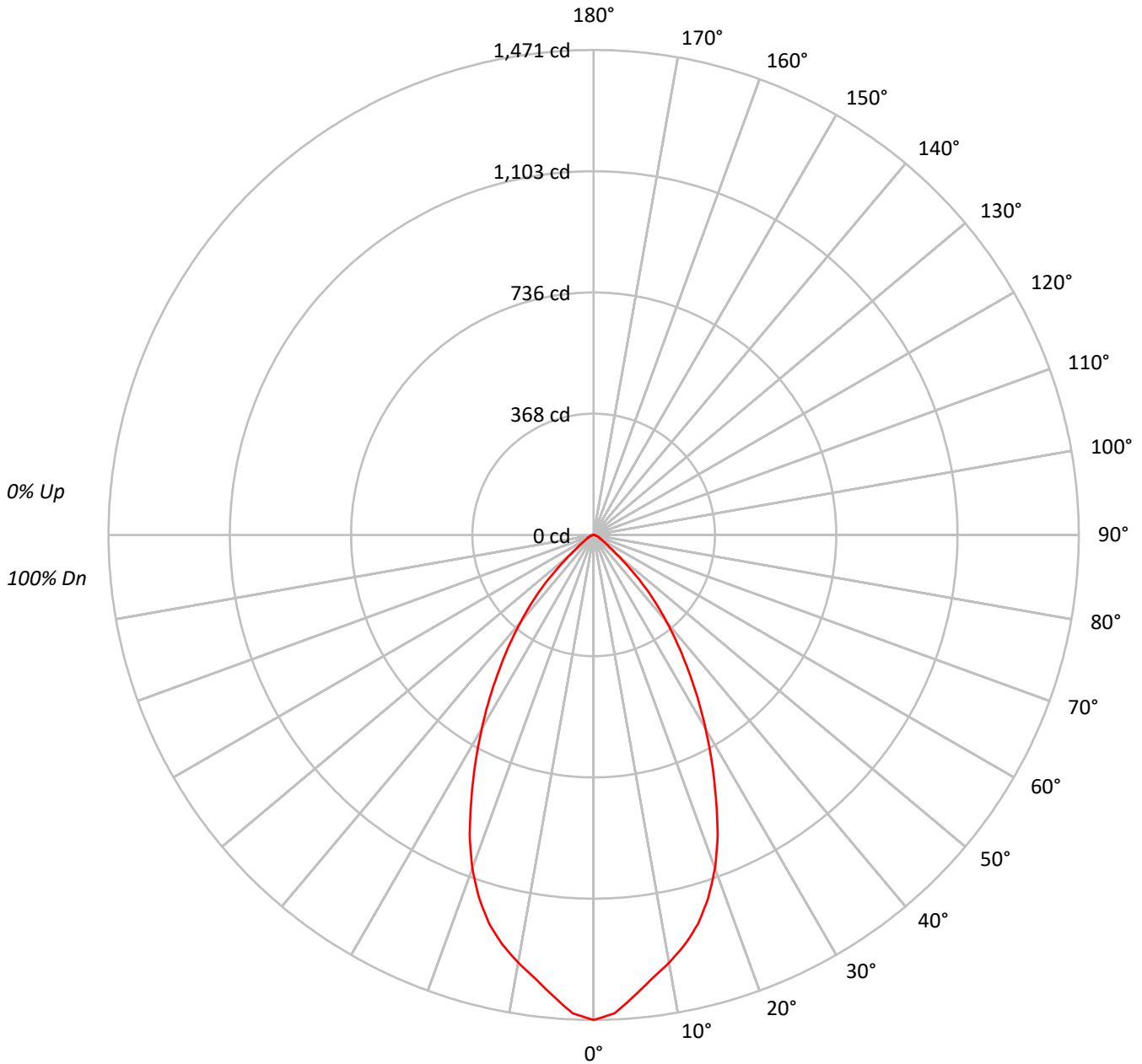
Lumens per Lamp: N/A
Luminaire Lumens: 1412.7 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.88
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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									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	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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92											92																	
2	107	101	97	93	105	100	96	92	96	93	90	93	91	88	91	88	87	85											85																	
3	101	94	88	84	99	92	87	83	90	86	82	87	84	81	85	82	80	78											78																	
4	95	87	81	76	93	86	80	76	84	79	75	82	77	74	80	76	73	72											72																	
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66											66																	
6	85	75	69	64	83	74	68	64	73	68	64	71	67	63	70	66	63	61											61																	
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57											57																	
8	76	66	59	55	75	65	59	55	64	59	55	63	58	54	62	58	54	53											53																	
9	72	62	56	51	71	61	55	51	60	55	51	59	54	51	59	54	51	49											49																	
10	69	58	52	48	68	58	52	48	57	52	48	56	51	48	55	51	47	46											46																	

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	116130
5°	111264
10°	105593
15°	99852
20°	90341
25°	76275
30°	61847
35°	48050
40°	35532
45°	23266
50°	11127
55°	5973
60°	3915
65°	3250
70°	2862
75°	1891
80°	1137
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 23266 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.3	9.3
10°-20°	340.0	24.1
20°-30°	400.7	28.4
30°-40°	312.3	22.1
40°-50°	159.7	11.3
50°-60°	43.3	3.1
60°-70°	17.8	1.3
70°-80°	6.9	0.5
80°-90°	0.7	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°	872.1	61.7
0°-40°	1184.4	83.8
0°-60°	1387.4	98.2
0°-90°	1412.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1412.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1471	
5°	1404	131
15°	1222	340
25°	876	401
35°	499	312
45°	208	160
55°	43	43
65°	17	18
75°	6	7
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1471.1
2.5°	1452.5
5°	1404.1
7.5°	1357.0
10°	1317.3
12.5°	1273.9
15°	1221.8
17.5°	1154.8
20°	1075.4
22.5°	982.4
25°	875.7
27.5°	775.3
30°	678.5
32.5°	586.7
35°	498.6
37.5°	418.0
40°	344.8
42.5°	274.1
45°	208.4
47.5°	138.9
50°	90.6
52.5°	62.0
55°	43.4
57.5°	32.3
60°	24.8
62.5°	21.1
65°	17.4
67.5°	14.9
70°	12.4
72.5°	8.7
75°	6.2
77.5°	3.7
80°	2.5
82.5°	1.2
85°	0.0
87.5°	0.0
90°	0.0

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Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)