

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: P642045

Luminaire Tested: ML5612LSWFL5597FS1E - 594SNB - 1200LM - 5000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642045
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 - 1200LM - 5000K
Description: ML56 RR, 55D TIR OPTIC, 5" SATIN NICKLE GIMBAL TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

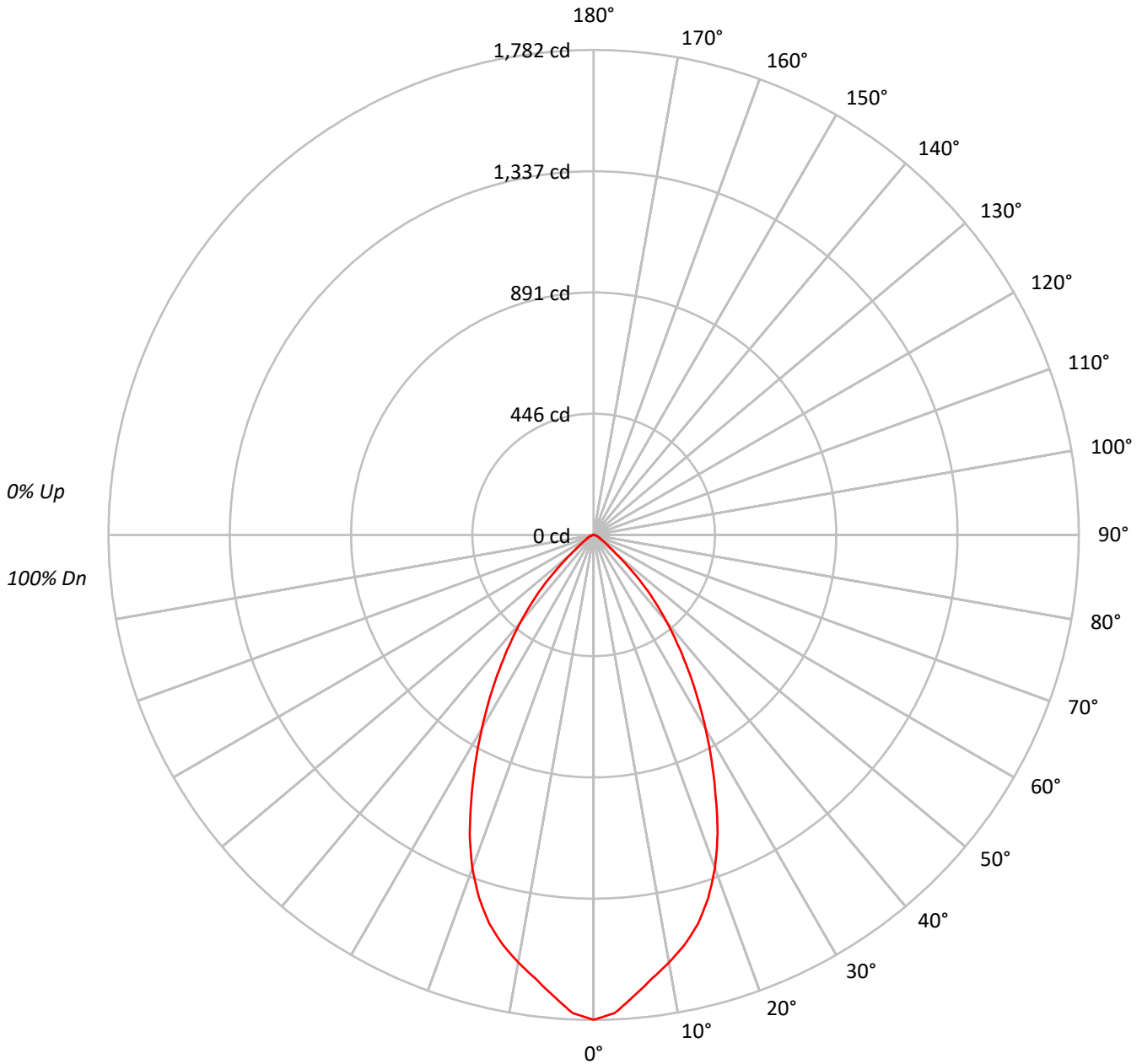
Lumens per Lamp: N/A
Luminaire Lumens: 1710.8 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.88
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 16.5
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	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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92																																				
2	107	101	97	93	105	100	96	92	96	93	90	93	91	88	91	88	87	85																																				
3	101	94	88	84	99	92	87	83	90	86	82	87	84	81	85	82	80	78																																				
4	95	87	81	76	93	86	80	76	84	79	75	82	77	74	80	76	73	72																																				
5	90	81	74	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66																																				
6	85	75	69	64	83	74	68	64	73	68	64	71	67	63	70	66	63	61																																				
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57																																				
8	76	66	59	55	75	65	59	55	64	59	55	63	58	54	62	58	54	53																																				
9	72	62	56	51	71	61	55	51	60	55	51	59	54	51	59	54	51	49																																				
10	69	58	52	48	68	58	52	48	57	52	48	56	51	48	55	51	47	46																																				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	140641
5°	134744
10°	127877
15°	120921
20°	109411
25°	92371
30°	74901
35°	58197
40°	43034
45°	28178
50°	13472
55°	7239
60°	4736
65°	3923
70°	3462
75°	2288
80°	1364
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 28178 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.0	9.3
10°-20°	411.8	24.1
20°-30°	485.3	28.4
30°-40°	378.3	22.1
40°-50°	193.4	11.3
50°-60°	52.4	3.1
60°-70°	21.5	1.3
70°-80°	8.3	0.5
80°-90°	0.8	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°	1056.1	61.7
0°-40°	1434.4	83.8
0°-60°	1680.2	98.2
0°-90°	1710.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1710.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1782	
5°	1700	159
15°	1480	412
25°	1060	485
35°	604	378
45°	252	193
55°	53	52
65°	21	21
75°	8	8
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1781.6
2.5°	1759.0
5°	1700.4
7.5°	1643.4
10°	1595.3
12.5°	1542.7
15°	1479.6
17.5°	1398.5
20°	1302.4
22.5°	1189.7
25°	1060.5
27.5°	938.8
30°	821.7
32.5°	710.5
35°	603.9
37.5°	506.2
40°	417.6
42.5°	332.0
45°	252.4
47.5°	168.2
50°	109.7
52.5°	75.1
55°	52.6
57.5°	39.1
60°	30.0
62.5°	25.5
65°	21.0
67.5°	18.0
70°	15.0
72.5°	10.5
75°	7.5
77.5°	4.5
80°	3.0
82.5°	1.5
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)