

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: P641498

Luminaire Tested: ML5612LSVWFL7597FS1E - 693SNB - 900LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641498
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-88)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSVWFL7597FS1E - 693SNB - 900LM - 3500K
Description: ML56 RR, 75D TIR OPTIC, 6" SATIN NICKLE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

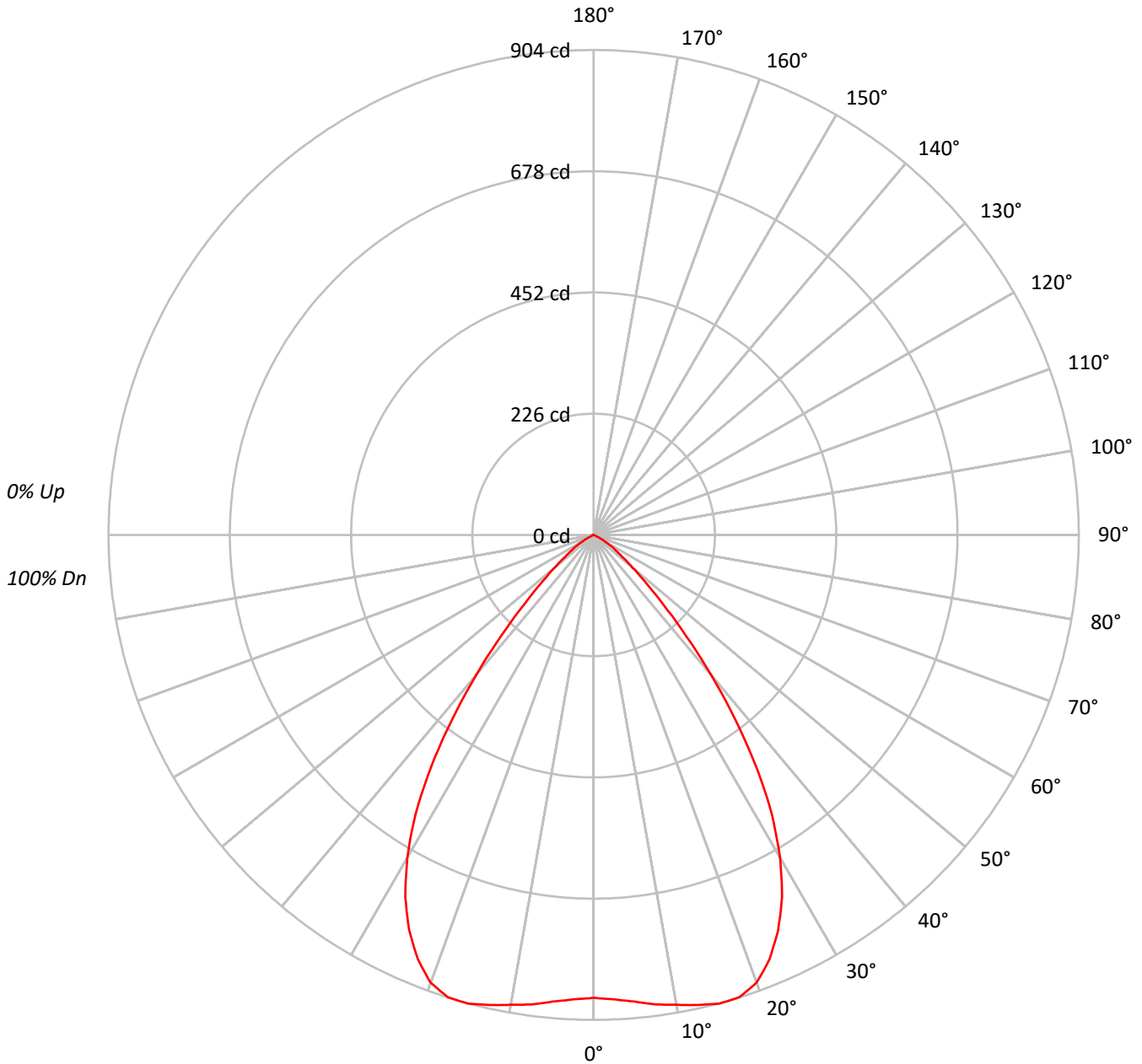
Lumens per Lamp: N/A
Luminaire Lumens: 1238.1 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.09
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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				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	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		96	95	94	92
2	107	101	97	93	104	99	95	92	96	93	90		93	90	88		90	88	86	84
3	100	93	88	83	98	92	87	83	89	85	81		87	83	80		84	81	79	77
4	94	86	80	75	92	85	79	75	83	78	74		81	76	73		79	75	72	70
5	89	80	73	68	87	79	72	68	77	71	67		75	70	67		73	69	66	64
6	84	74	67	62	82	73	67	62	71	66	62		70	65	61		68	64	61	59
7	79	68	62	57	77	68	61	57	66	61	57		65	60	56		64	59	56	54
8	74	64	57	53	73	63	57	52	62	56	52		61	56	52		60	55	52	50
9	70	60	53	49	69	59	53	49	58	52	48		57	52	48		56	51	48	46
10	66	56	49	45	65	55	49	45	54	49	45		54	48	45		53	48	45	43

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	47304
5°	48057
10°	49515
15°	51334
20°	51822
25°	49194
30°	43962
35°	35362
40°	24274
45°	14133
50°	8068
55°	4855
60°	2653
65°	752
70°	192
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14133 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.9	6.8
10°-20°	254.8	20.6
20°-30°	370.1	29.9
30°-40°	324.8	26.2
40°-50°	149.3	12.1
50°-60°	47.4	3.8
60°-70°	7.6	0.6
70°-80°	0.2	0.0
80°-90°	0.0	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°	708.8	57.3
0°-40°	1033.6	83.5
0°-60°	1230.3	99.4
0°-90°	1238.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1238.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	863	
5°	873	84
15°	904	255
25°	813	370
35°	528	325
45°	182	149
55°	51	47
65°	6	8
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	862.9
2.5°	866.4
5°	873.3
7.5°	882.6
10°	889.5
12.5°	897.6
15°	904.5
17.5°	903.3
20°	888.3
22.5°	856.0
25°	813.3
27.5°	760.3
30°	694.5
32.5°	618.4
35°	528.4
37.5°	432.6
40°	339.2
42.5°	253.8
45°	182.3
47.5°	131.5
50°	94.6
52.5°	66.9
55°	50.8
57.5°	36.9
60°	24.2
62.5°	11.5
65°	5.8
67.5°	1.2
70°	1.2
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
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)