

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: P641310

Luminaire Tested: ML5612LSVWFL7597FS1E - 593SNB - 1200LM - 5000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641310
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-76)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSVWFL7597FS1E - 593SNB - 1200LM - 5000K
Description: ML56 RR, 75D TIR OPTIC, 5" SATIN NICKLE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

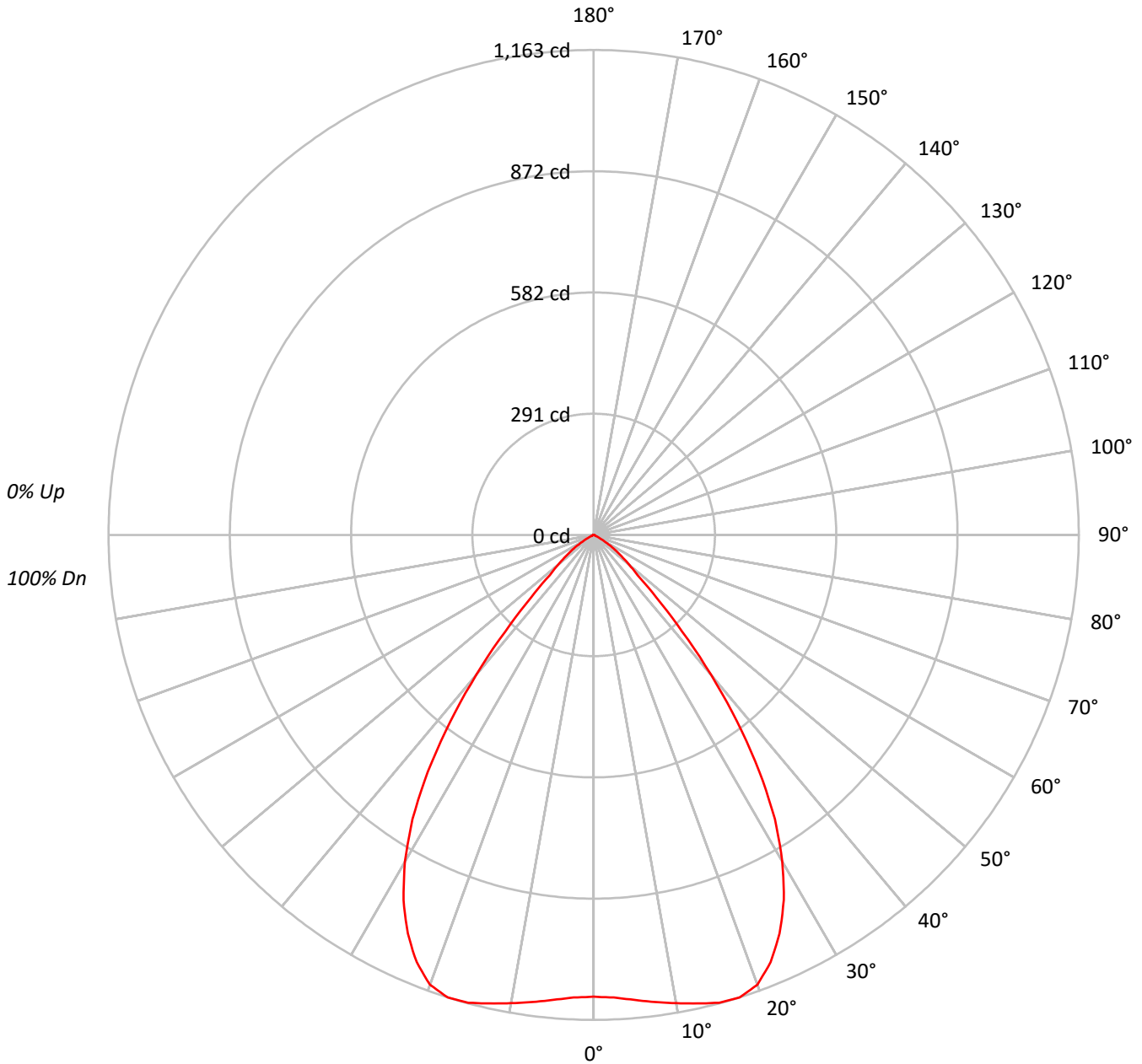
Lumens per Lamp: N/A
Luminaire Lumens: 1584.6 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.09
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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				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	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	96	95	94	92				92
2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84				84
3	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	79	77				77
4	95	86	80	75	93	85	79	75	83	78	74	81	76	73	79	75	72	71				71
5	89	80	73	68	87	79	73	68	77	72	67	75	71	67	74	69	66	65				65
6	84	74	67	63	82	73	67	62	72	66	62	70	65	61	69	64	61	59				59
7	79	69	62	57	78	68	62	57	67	61	57	65	60	57	64	60	56	55				55
8	75	64	57	53	73	63	57	53	62	57	52	61	56	52	60	55	52	50				50
9	70	60	53	49	69	59	53	49	58	53	49	57	52	48	56	52	48	47				47
10	67	56	50	45	66	56	49	45	55	49	45	54	49	45	53	48	45	43				43

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	87411
5°	88696
10°	91405
15°	94916
20°	96423
25°	91866
30°	82448
35°	66745
40°	45053
45°	23645
50°	13657
55°	8478
60°	3789
65°	1121
70°	692
75°	458
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 23645 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.5	6.8
10°-20°	327.5	20.7
20°-30°	480.0	30.3
30°-40°	424.0	26.8
40°-50°	179.0	11.3
50°-60°	56.5	3.6
60°-70°	8.4	0.5
70°-80°	1.6	0.1
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°	915.1	57.7
0°-40°	1339.1	84.5
0°-60°	1574.6	99.4
0°-90°	1584.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1584.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1107	
5°	1119	108
15°	1161	328
25°	1055	480
35°	693	424
45°	212	179
55°	62	57
65°	6	8
75°	2	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1107.3
2.5°	1110.3
5°	1119.3
7.5°	1129.8
10°	1140.3
12.5°	1150.8
15°	1161.4
17.5°	1162.9
20°	1147.8
22.5°	1108.8
25°	1054.7
27.5°	987.1
30°	904.5
32.5°	808.3
35°	692.6
37.5°	564.9
40°	437.2
42.5°	314.0
45°	211.8
47.5°	142.7
50°	111.2
52.5°	84.1
55°	61.6
57.5°	42.1
60°	24.0
62.5°	12.0
65°	6.0
67.5°	3.0
70°	3.0
72.5°	1.5
75°	1.5
77.5°	1.5
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)