

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: P641306

Luminaire Tested: ML5612LSVWFL7597FS1E - 593SNB - 1200LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641306
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 - 2700K
Description: ML56 RR, 75D TIR OPTIC, 5" SATIN NICKLE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1393.4 lumens
Efficiency: N/A
Efficacy: 84.4 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

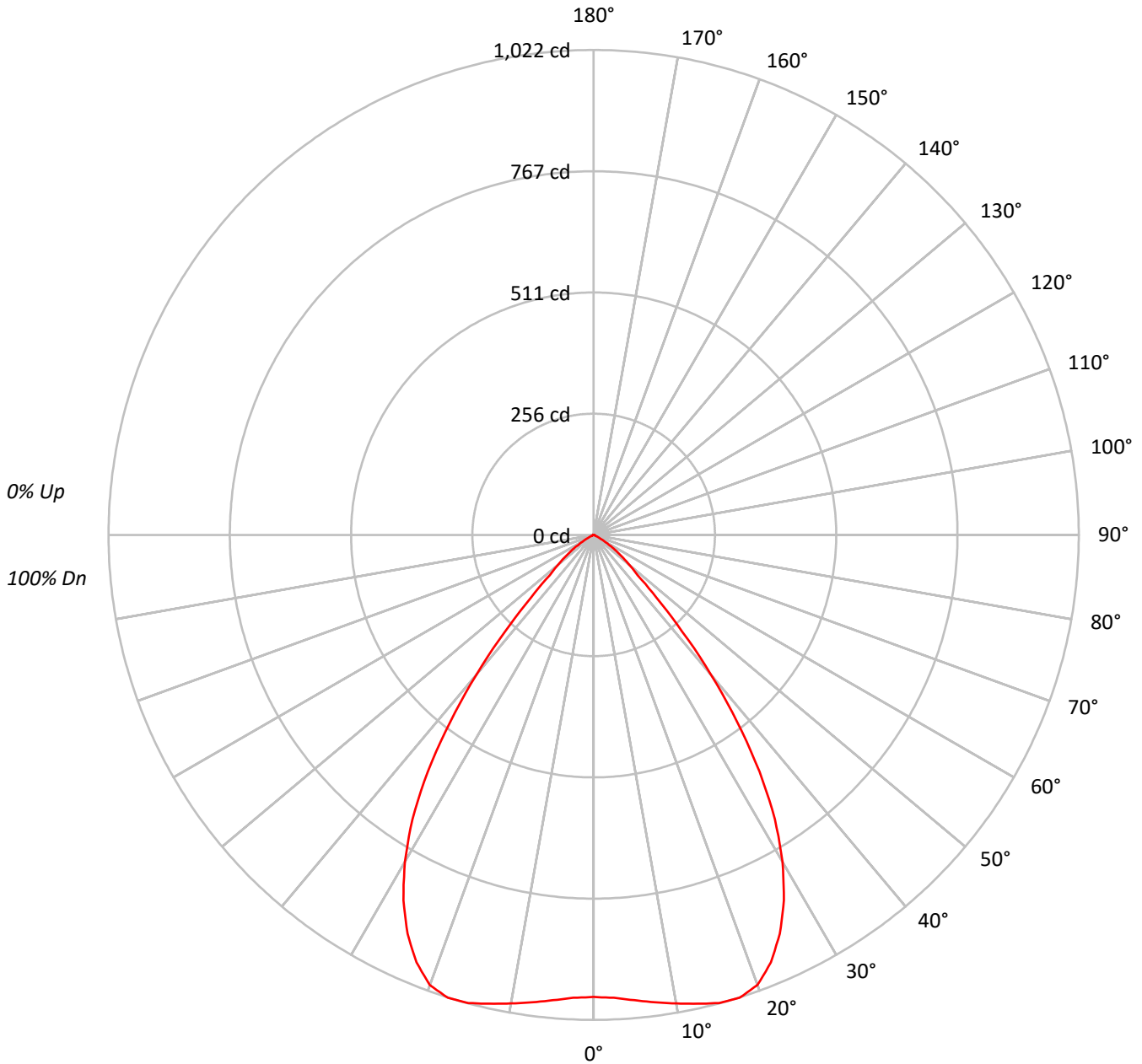
Input Watts (W): 16.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
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	95	86	80	75	93	85	79	75	83	78	74		81	76	73		79	75	72	71
5	89	80	73	68	87	79	73	68	77	72	67		75	71	67		74	69	66	65
6	84	74	67	63	82	73	67	62	72	66	62		70	65	61		69	64	61	59
7	79	69	62	57	78	68	62	57	67	61	57		65	60	57		64	60	56	55
8	75	64	57	53	73	63	57	53	62	57	52		61	56	52		60	55	52	50
9	70	60	53	49	69	59	53	49	58	53	49		57	52	48		56	52	48	47
10	67	56	50	45	66	56	49	45	55	49	45		54	49	45		53	48	45	43

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	76857
5°	77990
10°	80375
15°	83458
20°	84788
25°	80778
30°	72494
35°	58689
40°	39612
45°	20798
50°	12011
55°	7460
60°	3331
65°	990
70°	600
75°	397
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 20798 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.5	6.8
10°-20°	288.0	20.7
20°-30°	422.1	30.3
30°-40°	372.8	26.8
40°-50°	157.4	11.3
50°-60°	49.7	3.6
60°-70°	7.4	0.5
70°-80°	1.4	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°	804.6	57.7
0°-40°	1177.4	84.5
0°-60°	1384.6	99.4
0°-90°	1393.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1393.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	974	
5°	984	95
15°	1021	288
25°	927	422
35°	609	373
45°	186	157
55°	54	50
65°	5	7
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	973.6
2.5°	976.3
5°	984.2
7.5°	993.5
10°	1002.7
12.5°	1011.9
15°	1021.2
17.5°	1022.5
20°	1009.3
22.5°	975.0
25°	927.4
27.5°	867.9
30°	795.3
32.5°	710.7
35°	609.0
37.5°	496.7
40°	384.4
42.5°	276.1
45°	186.3
47.5°	125.5
50°	97.8
52.5°	74.0
55°	54.2
57.5°	37.0
60°	21.1
62.5°	10.6
65°	5.3
67.5°	2.6
70°	2.6
72.5°	1.3
75°	1.3
77.5°	1.3
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)