

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: P641279

Luminaire Tested: ML5612LSVWFL7597FS1E - 592W - 1200LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641279
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-73)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSVWFL7597FS1E - 592W - 1200LM - 4000K
Description: ML56 RR, 75D TIR OPTIC, 5" WHITE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1618.6 lumens
Efficiency: N/A
Efficacy: 98.1 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

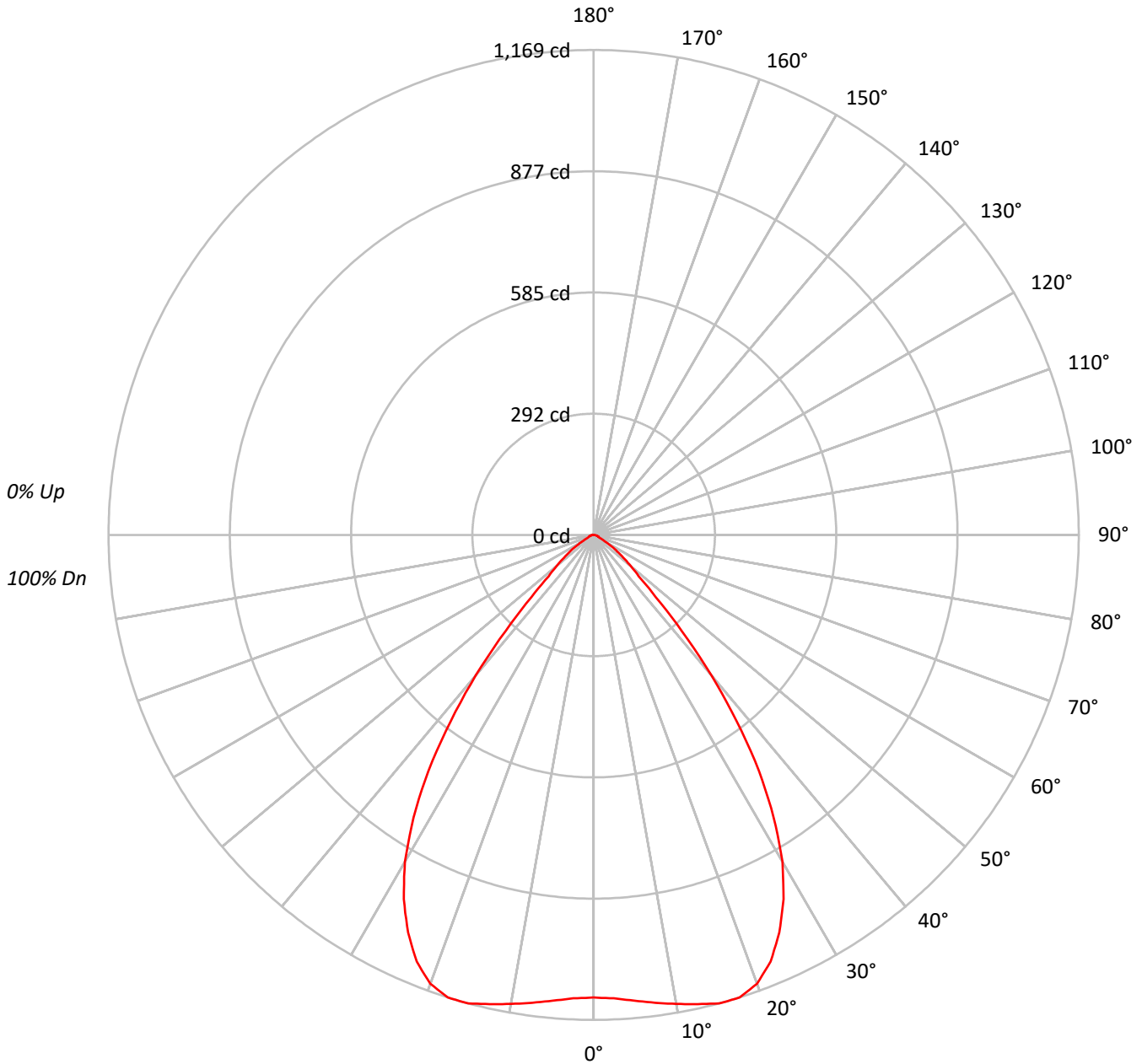
Input Watts (W): 16.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	104	110	107	105	103	103	101	99		100	98	96		96	95	94	92
2	106	101	96	92	104	99	95	91	96	92	89		93	90	87		90	87	85	84
3	100	93	87	83	98	91	86	82	89	84	81		86	82	79		84	81	78	76
4	94	85	79	74	92	84	78	74	82	77	73		80	76	72		78	74	71	70
5	88	79	72	68	87	78	72	67	76	71	67		74	70	66		73	69	65	64
6	83	73	66	62	82	72	66	61	71	65	61		69	64	61		68	64	60	58
7	78	68	61	57	77	67	61	56	66	60	56		65	60	56		64	59	55	54
8	74	63	57	52	73	63	56	52	62	56	52		61	55	51		59	55	51	50
9	70	59	53	48	69	59	52	48	58	52	48		57	51	48		56	51	48	46
10	66	55	49	45	65	55	49	45	54	48	44		53	48	44		52	48	44	43

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	88019
5°	89306
10°	92022
15°	95537
20°	96692
25°	92145
30°	82895
35°	66957
40°	45466
45°	23623
50°	14369
55°	9496
60°	4973
65°	2802
70°	2770
75°	2745
80°	2728
85°	2717

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 23623 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.2	6.7
10°-20°	329.4	20.4
20°-30°	481.8	29.8
30°-40°	425.0	26.3
40°-50°	180.7	11.2
50°-60°	62.7	3.9
60°-70°	17.9	1.1
70°-80°	9.5	0.6
80°-90°	3.3	0.2
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°	919.4	56.8
0°-40°	1344.4	83.1
0°-60°	1587.9	98.1
0°-90°	1618.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1618.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1115	
5°	1127	108
15°	1169	329
25°	1058	482
35°	695	425
45°	212	181
55°	69	63
65°	15	18
75°	9	9
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1115.0
2.5°	1118.0
5°	1127.0
7.5°	1137.5
10°	1148.0
12.5°	1158.5
15°	1169.0
17.5°	1169.0
20°	1151.0
22.5°	1113.5
25°	1057.9
27.5°	990.4
30°	909.4
32.5°	807.3
35°	694.8
37.5°	565.7
40°	441.2
42.5°	313.6
45°	211.6
47.5°	147.1
50°	117.0
52.5°	90.0
55°	69.0
57.5°	49.5
60°	31.5
62.5°	22.5
65°	15.0
67.5°	13.5
70°	12.0
72.5°	10.5
75°	9.0
77.5°	7.5
80°	6.0
82.5°	4.5
85°	3.0
87.5°	1.5
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)