

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: P641396

Luminaire Tested: ML5612LSVWFL7597FS1E - 596WB - 1200LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641396
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-81)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSVWFL7597FS1E - 596WB - 1200LM - 2700K
Description: ML56 RR, 75D TIR OPTIC, 5" SHALLOW WHITE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1446.2 lumens
Efficiency: N/A
Efficacy: 87.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.1
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

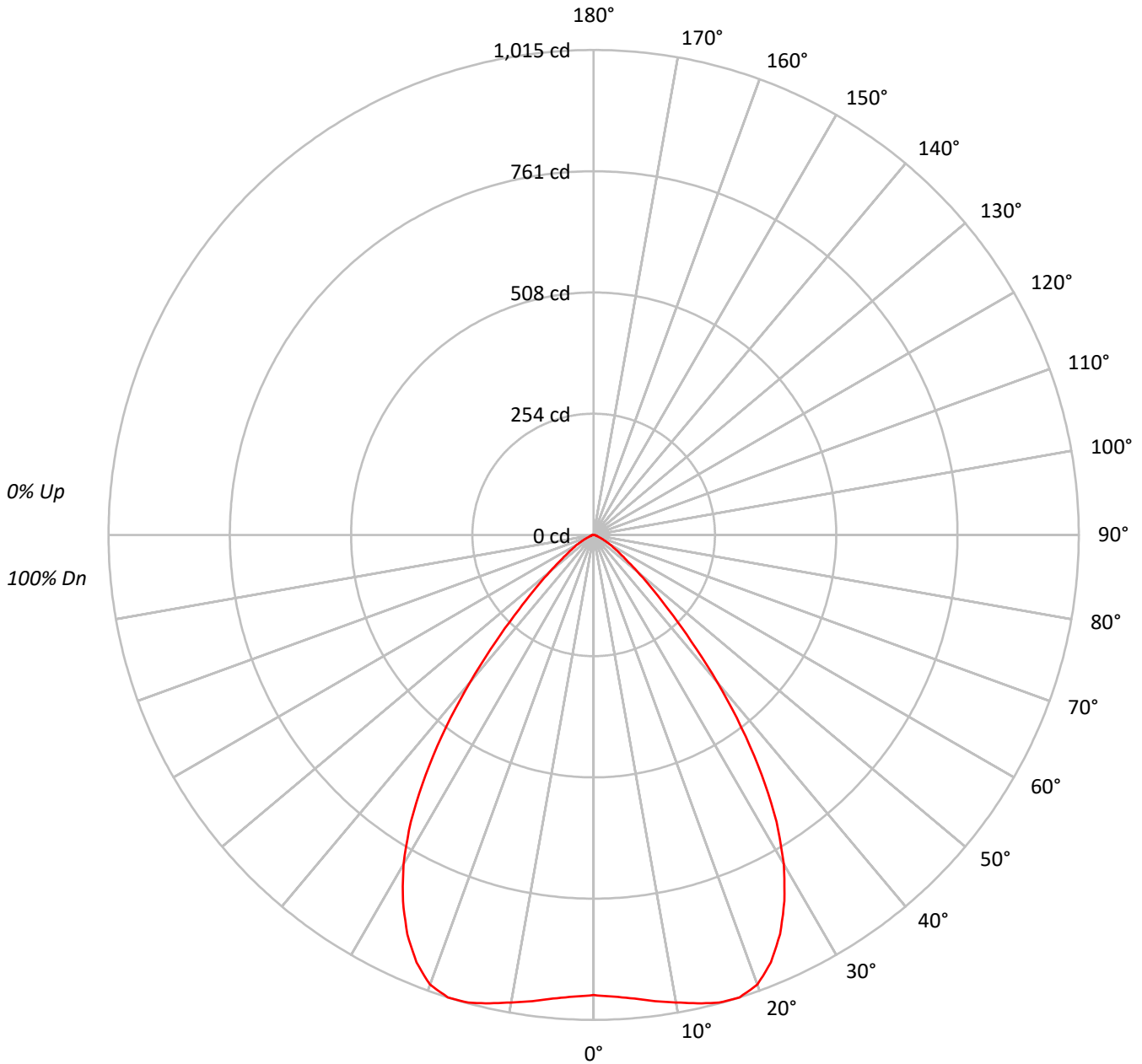
Input Watts (W): 16.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92			92
2	106	101	96	92	104	99	95	91	95	92	89	92	90	87	90	87	85	83			83
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76			76
4	94	85	79	74	92	84	78	73	82	77	73	80	75	72	78	74	71	69			69
5	88	78	72	67	86	77	71	67	76	70	66	74	69	65	72	68	65	63			63
6	83	73	66	61	81	72	65	61	70	65	60	69	64	60	67	63	59	58			58
7	78	67	61	56	76	67	60	56	65	60	55	64	59	55	63	58	55	53			53
8	73	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	50	49			49
9	69	59	52	47	68	58	52	47	57	51	47	56	51	47	55	50	47	45			45
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42			42

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	76036
5°	77166
10°	79646
15°	82829
20°	84142
25°	80334
30°	72503
35°	59084
40°	41395
45°	24639
50°	14602
55°	8905
60°	6047
65°	3456
70°	1823
75°	1617
80°	1818
85°	1177

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 24639 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.6	6.5
10°-20°	285.8	19.8
20°-30°	420.0	29.0
30°-40°	376.9	26.1
40°-50°	180.2	12.5
50°-60°	62.0	4.3
60°-70°	20.0	1.4
70°-80°	5.8	0.4
80°-90°	2.0	0.1
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°	799.4	55.3
0°-40°	1176.3	81.3
0°-60°	1418.5	98.1
0°-90°	1446.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1446.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	963	
5°	974	94
15°	1014	286
25°	922	420
35°	613	377
45°	221	180
55°	65	62
65°	18	20
75°	5	6
85°	1	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	963.2
2.5°	967.2
5°	973.8
7.5°	984.4
10°	993.6
12.5°	1004.2
15°	1013.5
17.5°	1014.8
20°	1001.6
22.5°	968.5
25°	922.3
27.5°	864.1
30°	795.4
32.5°	712.2
35°	613.1
37.5°	507.4
40°	401.7
42.5°	302.6
45°	220.7
47.5°	162.5
50°	118.9
52.5°	85.9
55°	64.7
57.5°	50.2
60°	38.3
62.5°	27.7
65°	18.5
67.5°	11.9
70°	7.9
72.5°	6.6
75°	5.3
77.5°	4.0
80°	4.0
82.5°	2.6
85°	1.3
87.5°	1.3
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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