

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: P642027

Luminaire Tested: ML5612LSWFL5597FS1E - 593WB - 1200LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642027
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-51)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSWFL5597FS1E - 593WB - 1200LM - 3000K
Description: ML56 RR, 55D TIR OPTIC, 5" WHITE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1522.9 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

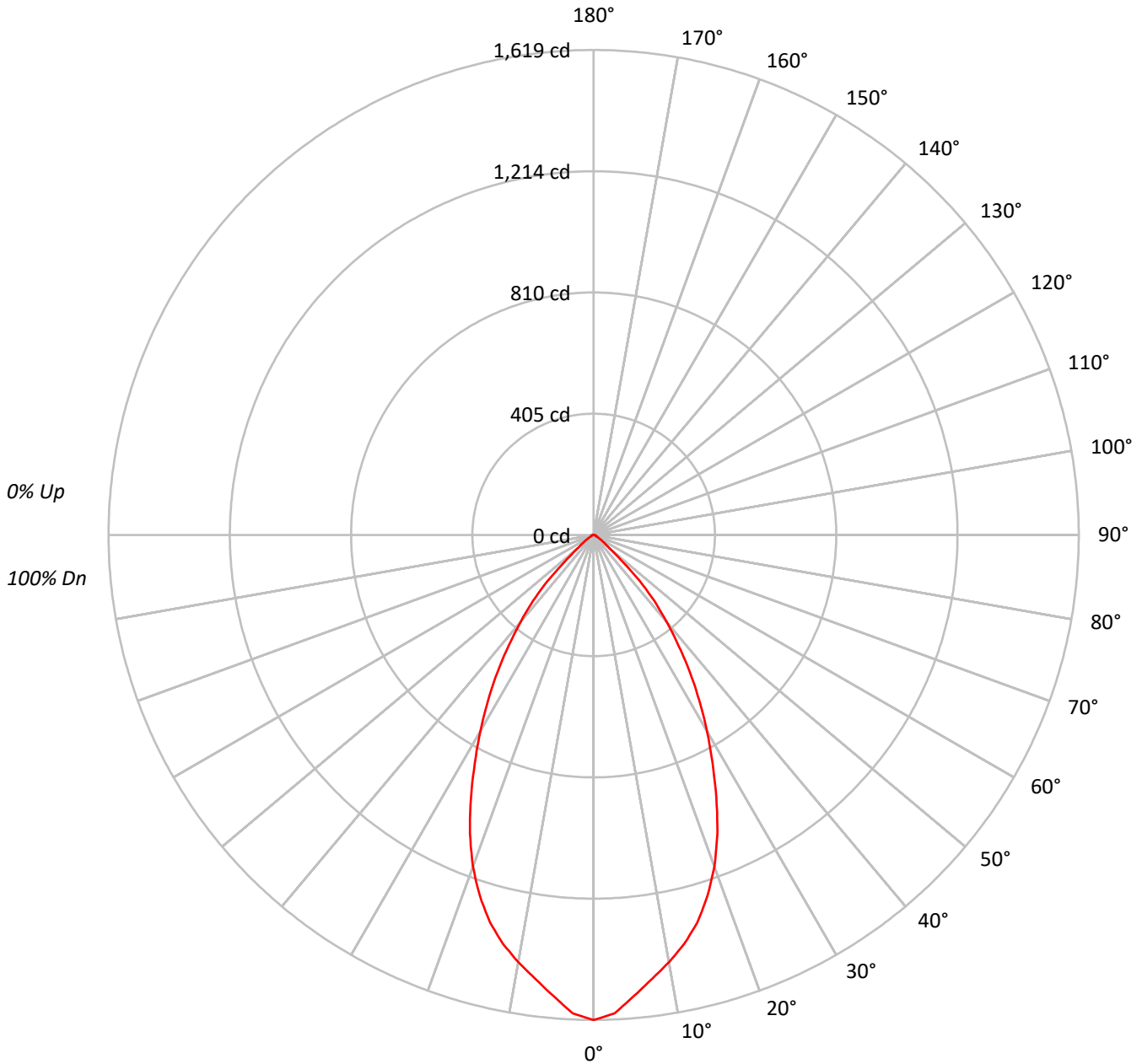
Input Watts (W): 16.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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	111	108	106	103	104	102	100	100	99	97	97	96	94	93			93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85			85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	86	83	80	79			79
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72			72
5	90	81	75	71	89	81	75	70	79	74	70	77	73	69	75	72	68	67			67
6	85	76	70	65	84	75	69	65	74	68	64	72	68	64	71	67	64	62			62
7	81	71	65	60	80	70	64	60	69	64	60	68	63	59	67	62	59	58			58
8	77	67	60	56	75	66	60	56	65	59	56	64	59	55	63	58	55	54			54
9	73	63	56	52	72	62	56	52	61	56	52	60	55	52	59	55	52	50			50
10	69	59	53	49	68	59	53	49	58	52	49	57	52	48	56	52	48	47			47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	127829
5°	122398
10°	116078
15°	109357
20°	98944
25°	84367
30°	68848
35°	53938
40°	39056
45°	24270
50°	8670
55°	4679
60°	2352
65°	1775
70°	1893
75°	1647
80°	1864
85°	2446

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 24270 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.5	9.5
10°-20°	372.6	24.5
20°-30°	442.3	29.0
30°-40°	348.3	22.9
40°-50°	163.7	10.7
50°-60°	32.9	2.2
60°-70°	9.9	0.7
70°-80°	6.3	0.4
80°-90°	2.4	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°	959.4	63.0
0°-40°	1307.7	85.9
0°-60°	1504.3	98.8
0°-90°	1522.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1522.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1619	
5°	1545	145
15°	1338	373
25°	969	442
35°	560	348
45°	217	164
55°	34	33
65°	10	10
75°	5	6
85°	3	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1619.3
2.5°	1598.9
5°	1544.6
7.5°	1494.3
10°	1448.1
12.5°	1397.9
15°	1338.1
17.5°	1263.4
20°	1177.8
22.5°	1078.6
25°	968.6
27.5°	858.6
30°	755.3
32.5°	656.1
35°	559.7
37.5°	464.6
40°	379.0
42.5°	300.2
45°	217.4
47.5°	120.9
50°	70.6
52.5°	48.9
55°	34.0
57.5°	23.1
60°	14.9
62.5°	10.9
65°	9.5
67.5°	8.2
70°	8.2
72.5°	6.8
75°	5.4
77.5°	5.4
80°	4.1
82.5°	2.7
85°	2.7
87.5°	1.4
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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