

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: P641967

Luminaire Tested: ML5612LSWFL5597FS1E - 592W - 1200LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641967
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-50)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSWFL5597FS1E - 592W - 1200LM - 3000K
Description: ML56 RR, 55D TIR OPTIC, 5" WHITE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

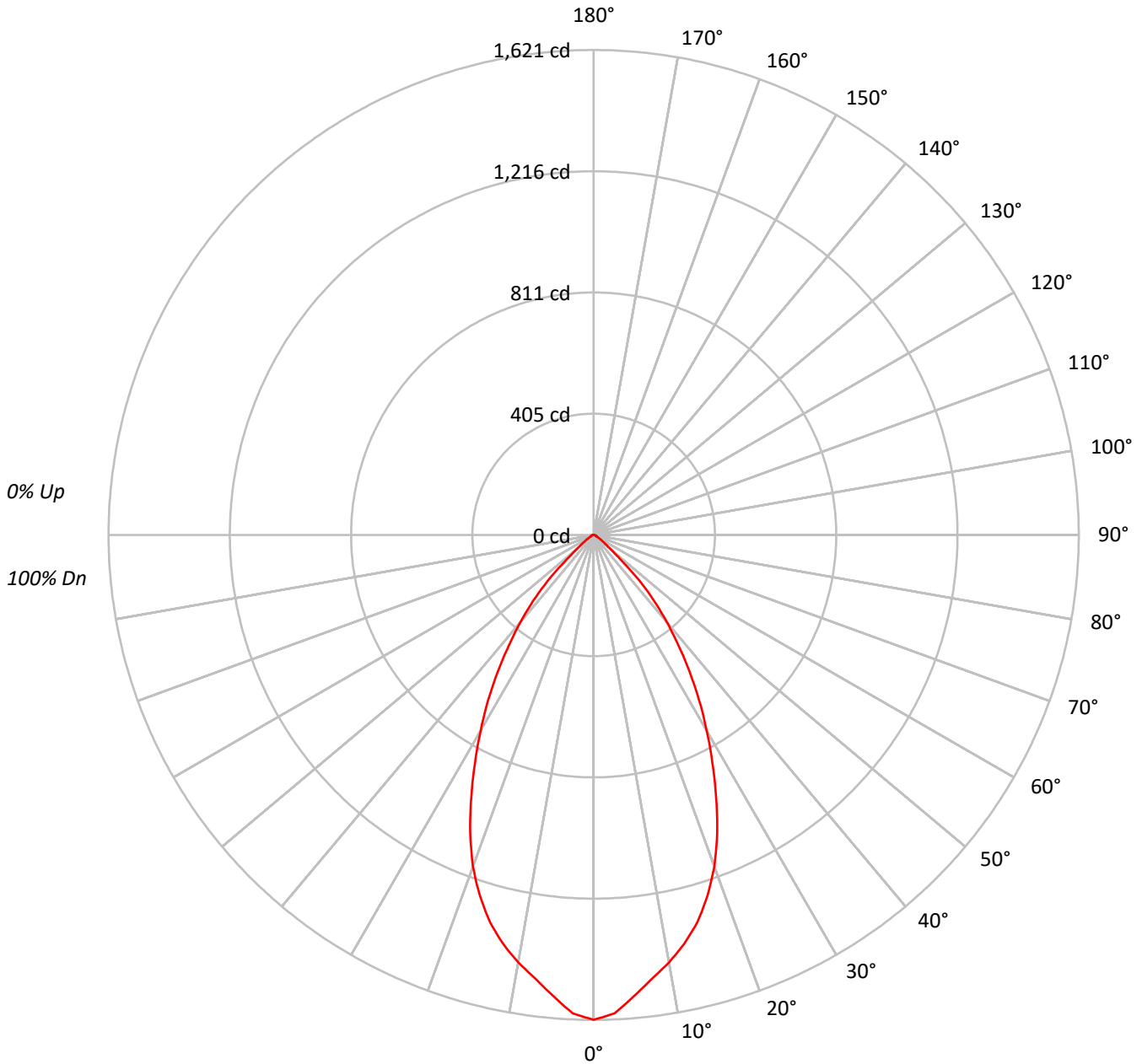
Lumens per Lamp: N/A
Luminaire Lumens: 1524.3 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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									
RC	80									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	108	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°	127940
5°	122620
10°	116302
15°	109472
20°	99061
25°	84367
30°	68857
35°	53812
40°	39200
45°	24270
50°	8842
55°	4679
60°	2352
65°	1775
70°	1893
75°	1647
80°	1864
85°	1268

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°	144.7	9.5
10°-20°	373.0	24.5
20°-30°	442.4	29.0
30°-40°	348.3	22.8
40°-50°	164.0	10.8
50°-60°	33.4	2.2
60°-70°	10.2	0.7
70°-80°	6.3	0.4
80°-90°	2.1	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°	960.1	63.0
0°-40°	1308.4	85.8
0°-60°	1505.7	98.8
0°-90°	1524.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1524.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1621	
5°	1547	145
15°	1340	373
25°	969	442
35°	558	348
45°	217	164
55°	34	33
65°	10	10
75°	5	6
85°	1	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1620.7
2.5°	1600.4
5°	1547.4
7.5°	1495.8
10°	1450.9
12.5°	1399.3
15°	1339.5
17.5°	1264.8
20°	1179.2
22.5°	1078.7
25°	968.6
27.5°	858.6
30°	755.4
32.5°	656.2
35°	558.4
37.5°	464.6
40°	380.4
42.5°	298.9
45°	217.4
47.5°	122.3
50°	72.0
52.5°	48.9
55°	34.0
57.5°	24.5
60°	14.9
62.5°	12.2
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°	1.4
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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