

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: P642058

Luminaire Tested: ML5612LSWFL5597FS1E - 594TBZB - 1200LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642058
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-57)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSWFL5597FS1E - 594TBZB - 1200LM - 3500K
Description: ML56 RR, 55D TIR OPTIC, 5" TUSCON BRONZE GIMBAL TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

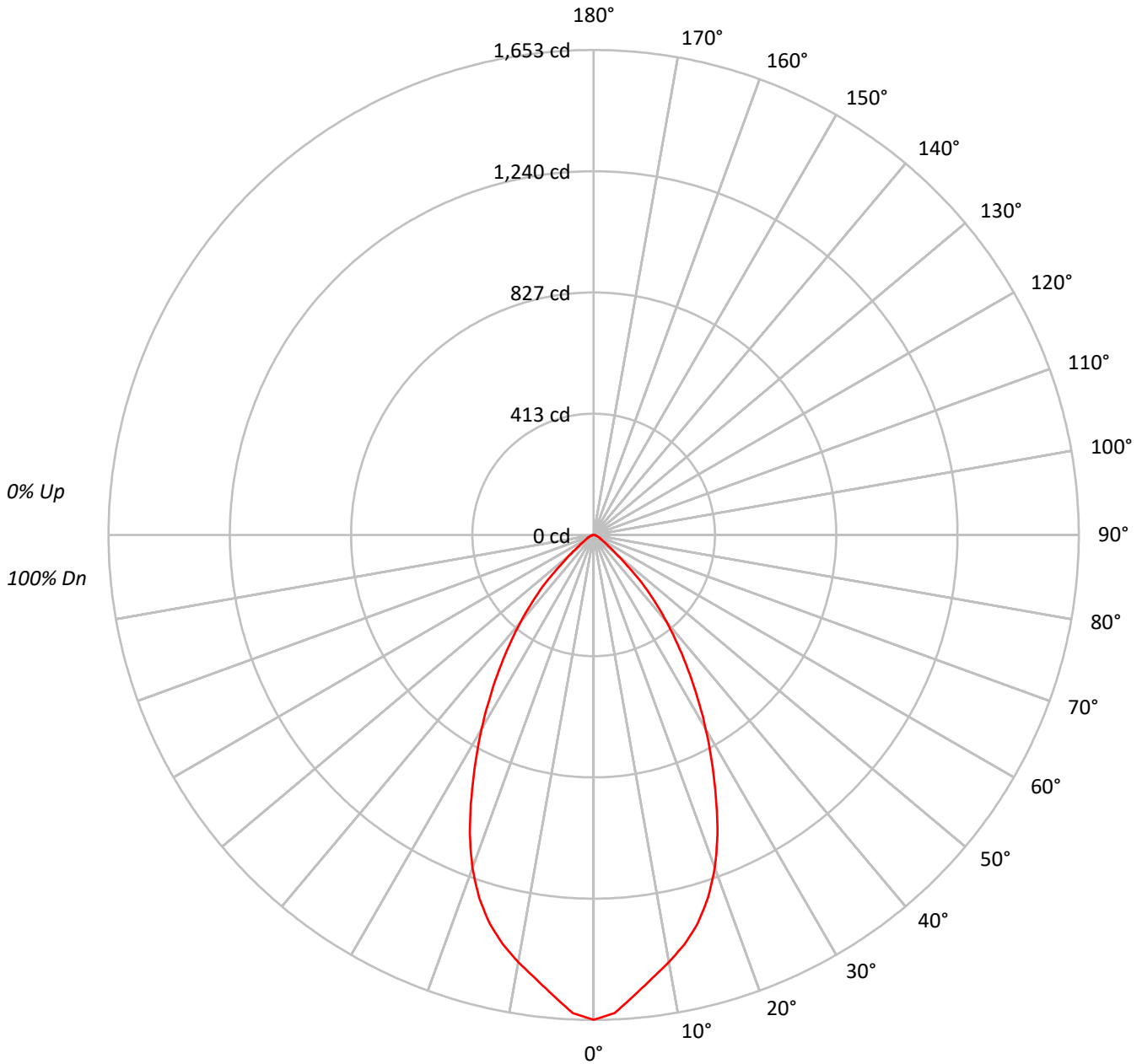
Lumens per Lamp: N/A
Luminaire Lumens: 1586.7 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.88
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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	100	100
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92	92	92	92
2	107	101	97	93	105	100	96	92	96	93	90	93	91	88	91	88	87	85	85	85	85
3	101	94	88	84	99	92	87	83	90	86	82	87	84	81	85	82	80	78	78	78	78
4	95	87	81	76	93	86	80	76	84	79	75	82	77	74	80	76	73	72	72	72	72
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66	66	66	66
6	85	75	69	64	83	74	68	64	73	68	64	71	67	63	70	66	63	61	61	61	61
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57	57	57	57
8	76	66	59	55	75	65	59	55	64	59	55	63	58	54	62	58	54	53	53	53	53
9	72	62	56	51	71	61	55	51	60	55	51	59	54	51	59	54	51	49	49	49	49
10	69	58	52	48	68	58	52	48	57	52	48	56	51	48	55	51	47	46	46	46	46

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	130458
5°	124870
10°	118483
15°	112013
20°	101422
25°	85830
30°	69595
35°	54073
40°	39839
45°	26179
50°	12686
55°	6730
60°	4405
65°	3642
70°	2908
75°	2135
80°	1273
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 26179 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.4	9.3
10°-20°	381.6	24.0
20°-30°	450.3	28.4
30°-40°	350.9	22.1
40°-50°	179.5	11.3
50°-60°	48.9	3.1
60°-70°	19.8	1.2
70°-80°	7.6	0.5
80°-90°	0.8	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°	979.3	61.7
0°-40°	1330.2	83.8
0°-60°	1558.5	98.2
0°-90°	1586.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1586.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1653	
5°	1576	147
15°	1371	382
25°	985	450
35°	561	351
45°	234	179
55°	49	49
65°	20	20
75°	7	8
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1652.6
2.5°	1631.6
5°	1575.8
7.5°	1524.2
10°	1478.1
12.5°	1429.2
15°	1370.6
17.5°	1296.6
20°	1207.3
22.5°	1102.6
25°	985.4
27.5°	870.9
30°	763.5
32.5°	658.8
35°	561.1
37.5°	469.0
40°	386.6
42.5°	308.5
45°	234.5
47.5°	154.9
50°	103.3
52.5°	69.8
55°	48.9
57.5°	36.3
60°	27.9
62.5°	23.7
65°	19.5
67.5°	16.7
70°	12.6
72.5°	9.8
75°	7.0
77.5°	4.2
80°	2.8
82.5°	1.4
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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