

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: P642176

Luminaire Tested: ML5612LSWFL5597FS1E - 693SNB - 1200LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642176
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-65)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSWFL5597FS1E - 693SNB - 1200LM - 2700K
Description: ML56 RR, 55D TIR OPTIC, 6" SATIN NICKLE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1479.2 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

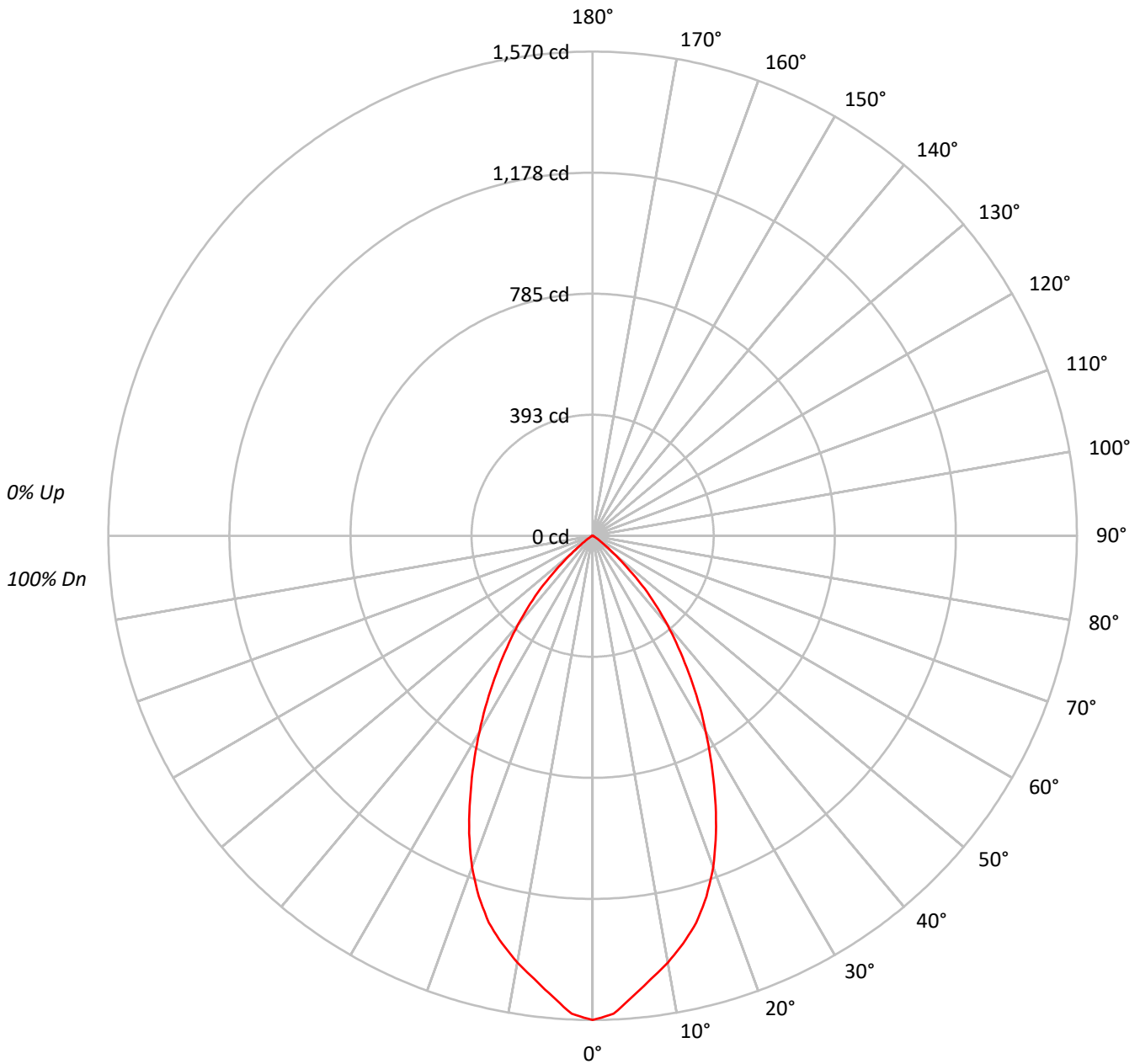
Input Watts (W): 16.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	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	100	100													
	1	113	110	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93	93	93	93	93	93													
	2	107	102	98	94	105	100	97	93	97	94	91	94	92	89	91	89	87	86	86	86	86	86	86													
	3	101	95	89	85	99	93	88	85	91	87	83	88	85	82	86	83	81	79	79	79	79	79	79													
	4	96	88	82	78	94	87	81	77	85	80	76	83	79	75	81	77	74	73	73	73	73	73	73													
	5	91	82	76	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67	67	67	67	67	67													
	6	86	76	70	65	84	75	70	65	74	69	65	72	68	64	71	67	64	62	62	62	62	62	62													
	7	81	71	65	60	80	71	65	60	69	64	60	68	63	60	67	63	59	58	58	58	58	58	58													
	8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	55	54	54	54	54	54	54													
	9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50	50	50	50	50	50													
	10	69	59	53	49	68	59	53	49	58	52	49	57	52	49	56	52	48	47	47	47	47	47	47													

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	86073
5°	82473
10°	78205
15°	73729
20°	66692
25°	56840
30°	46431
35°	36353
40°	26958
45°	17521
50°	7548
55°	2781
60°	1305
65°	337
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 17521 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.2	9.5
10°-20°	361.5	24.4
20°-30°	429.3	29.0
30°-40°	339.7	23.0
40°-50°	172.4	11.7
50°-60°	32.3	2.2
60°-70°	3.7	0.2
70°-80°	0.0	0.0
80°-90°	0.0	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°	931.1	62.9
0°-40°	1270.8	85.9
0°-60°	1475.5	99.8
0°-90°	1479.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1479.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1570	
5°	1499	140
15°	1299	362
25°	940	429
35°	543	340
45°	226	172
55°	29	32
65°	3	4
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1570.1
2.5°	1551.6
5°	1498.7
7.5°	1449.8
10°	1404.9
12.5°	1354.7
15°	1299.1
17.5°	1226.5
20°	1143.2
22.5°	1045.4
25°	939.7
27.5°	835.3
30°	733.5
32.5°	637.0
35°	543.2
37.5°	456.0
40°	376.7
42.5°	300.0
45°	226.0
47.5°	148.0
50°	88.5
52.5°	47.6
55°	29.1
57.5°	19.8
60°	11.9
62.5°	5.3
65°	2.6
67.5°	1.3
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
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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