

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: P641247

Luminaire Tested: ML5612LSVWFL7597FS1E - 592H - 1200LM - 3000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641247  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-72)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSVWFL7597FS1E - 592H - 1200LM - 3000K  
Description: ML56 RR, 75D TIR OPTIC, 5" HAZE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1467.2 lumens  
Efficiency: N/A  
Efficacy: 88.9 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.07  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

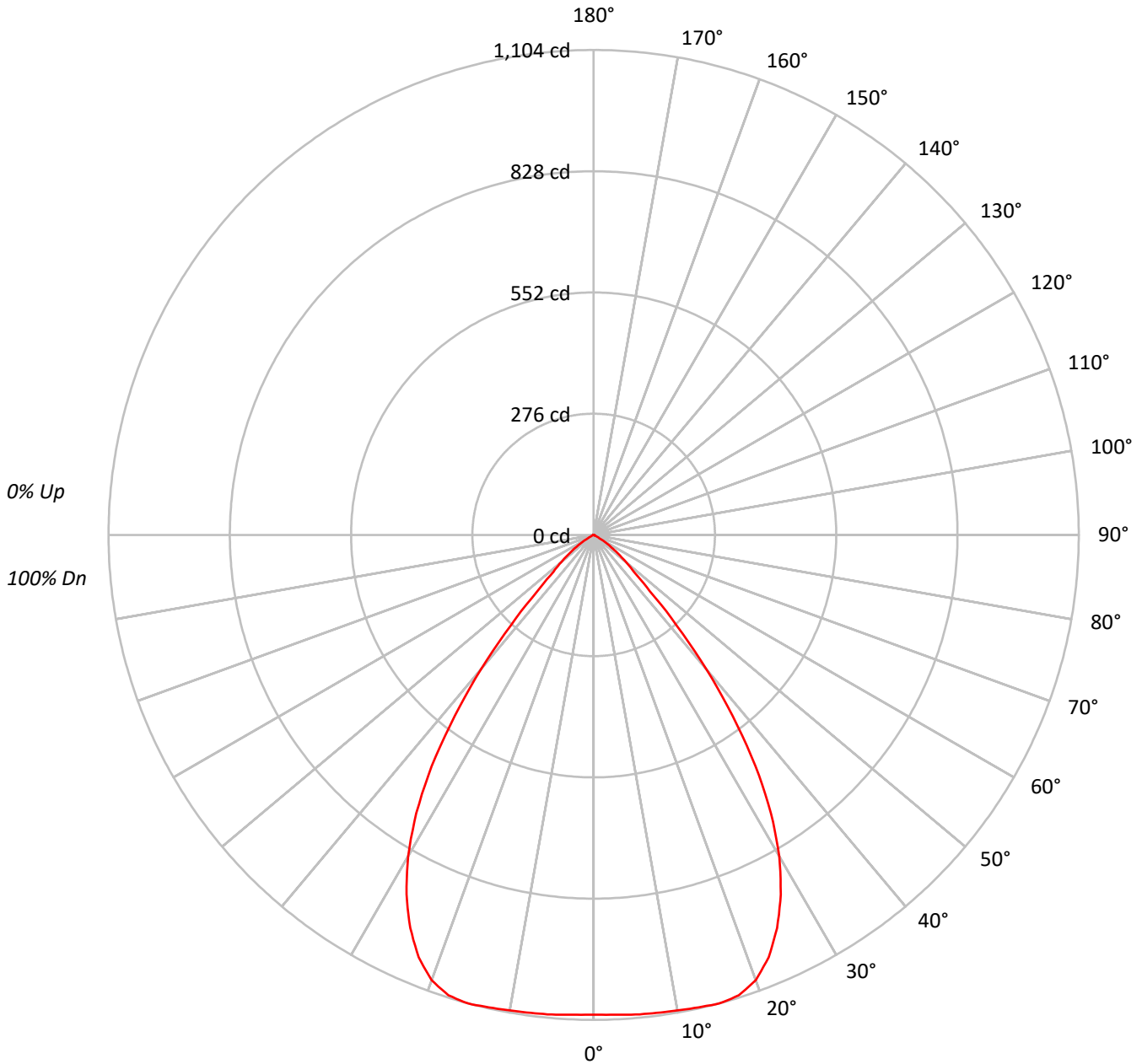
Input Watts (W): 16.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	113	110	107	105	111	108	105	103	104	102	100		100	99	97		97	95	94	93
2	107	101	97	93	105	100	96	92	96	93	90		93	91	88		91	88	87	85
3	101	94	88	84	99	92	87	83	90	85	82		87	84	81		85	82	79	78
4	95	87	81	76	93	85	80	75	83	78	75		81	77	74		79	76	73	71
5	89	80	74	69	88	79	73	69	77	72	68		76	71	68		74	70	67	65
6	84	74	68	63	83	74	67	63	72	67	63		71	66	62		69	65	62	60
7	79	69	63	58	78	69	62	58	67	62	58		66	61	57		65	60	57	55
8	75	65	58	54	74	64	58	53	63	57	53		62	57	53		61	56	53	51
9	71	60	54	50	70	60	54	50	59	53	49		58	53	49		57	52	49	48
10	67	57	50	46	66	56	50	46	55	50	46		55	49	46		54	49	46	44

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	86211
5°	86858
10°	88086
15°	90250
20°	90602
25°	86013
30°	77015
35°	61917
40°	41014
45°	20173
50°	11839
55°	6923
60°	2352
65°	504
70°	323
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 20173 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.7	7.1
10°-20°	311.1	21.2
20°-30°	449.5	30.6
30°-40°	392.4	26.7
40°-50°	157.7	10.7
50°-60°	46.2	3.2
60°-70°	5.0	0.3
70°-80°	0.5	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°	865.3	59.0
0°-40°	1257.7	85.7
0°-60°	1461.7	99.6
0°-90°	1467.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1467.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1092	
5°	1096	105
15°	1104	311
25°	988	450
35°	642	392
45°	181	158
55°	50	46
65°	3	5
75°	0	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1092.1
2.5°	1093.4
5°	1096.1
7.5°	1097.5
10°	1098.9
12.5°	1101.6
15°	1104.3
17.5°	1098.9
20°	1078.5
22.5°	1040.5
25°	987.5
27.5°	922.3
30°	844.9
32.5°	751.1
35°	642.5
37.5°	518.9
40°	398.0
42.5°	279.8
45°	180.7
47.5°	123.6
50°	96.4
52.5°	70.6
55°	50.3
57.5°	32.6
60°	14.9
62.5°	8.1
65°	2.7
67.5°	1.4
70°	1.4
72.5°	1.4
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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(END OF REPORT)