

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: P641456

Luminaire Tested: ML5612LSVWFL7597FS1E - 692W - 1200LM - 2700K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641456  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-85)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSVWFL7597FS1E - 692W - 1200LM - 2700K  
Description: ML56 RR, 75D TIR OPTIC, 6" WHITE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

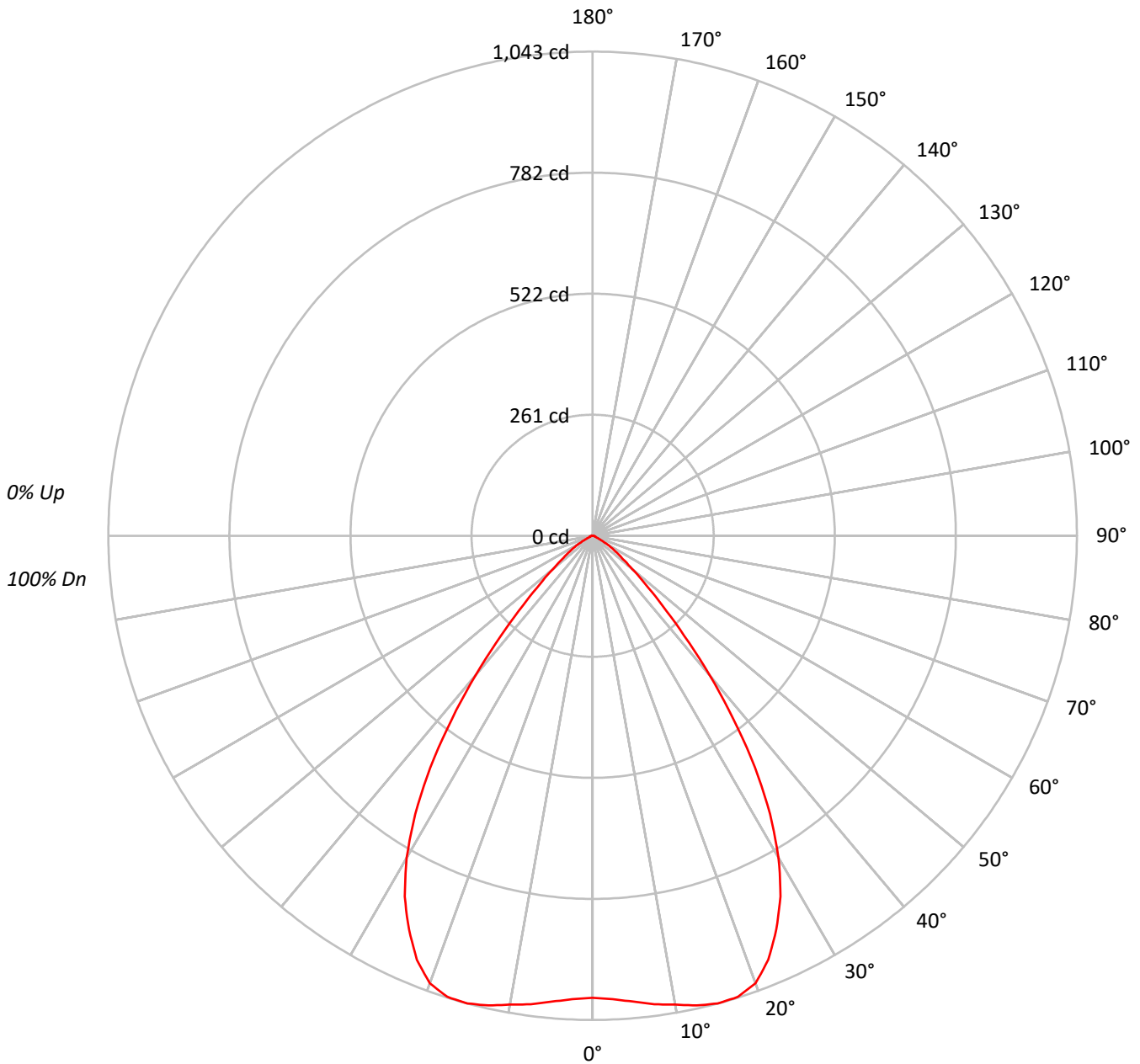
Lumens per Lamp: N/A  
Luminaire Lumens: 1444.8 lumens  
Efficiency: N/A  
Efficacy: 87.6 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.09  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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				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	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92			92
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	84			84
3	100	93	87	83	98	91	86	82	89	84	81	86	82	79	84	81	78	76			76
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70			70
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64			64
6	83	73	66	62	82	72	66	61	71	65	61	69	64	61	68	64	60	58			58
7	78	68	61	56	77	67	61	56	66	60	56	65	60	56	63	59	55	54			54
8	74	63	57	52	73	63	56	52	62	56	52	60	55	51	59	55	51	50			50
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	47	46			46
10	66	55	49	45	65	55	49	45	54	48	44	53	48	44	52	48	44	43			43

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

	0°
0°	54557
5°	55420
10°	57091
15°	59183
20°	59832
25°	56598
30°	50698
35°	40776
40°	27995
45°	16397
50°	9467
55°	6060
60°	3618
65°	1712
70°	1058
75°	1123
80°	821
85°	818

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 16397 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.8	6.7
10°-20°	293.9	20.3
20°-30°	426.7	29.5
30°-40°	374.1	25.9
40°-50°	172.8	12.0
50°-60°	58.8	4.1
60°-70°	14.9	1.0
70°-80°	5.4	0.4
80°-90°	1.4	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°	817.4	56.6
0°-40°	1191.5	82.5
0°-60°	1423.1	98.5
0°-90°	1444.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1444.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	995	
5°	1007	97
15°	1043	294
25°	936	427
35°	609	374
45°	212	173
55°	63	59
65°	13	15
75°	5	5
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	995.2
2.5°	999.2
5°	1007.1
7.5°	1017.7
10°	1025.6
12.5°	1036.2
15°	1042.8
17.5°	1041.5
20°	1025.6
22.5°	988.6
25°	935.7
27.5°	876.3
30°	800.9
32.5°	711.1
35°	609.3
37.5°	498.3
40°	391.2
42.5°	292.1
45°	211.5
47.5°	153.3
50°	111.0
52.5°	81.9
55°	63.4
57.5°	47.6
60°	33.0
62.5°	19.8
65°	13.2
67.5°	7.9
70°	6.6
72.5°	6.6
75°	5.3
77.5°	4.0
80°	2.6
82.5°	2.6
85°	1.3
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)