

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: P641112

Luminaire Tested: ML5612LSNFL2597FS1E - 692W - 1200LM - 3000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641112  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSNFL2597FS1E - 692W - 1200LM - 3000K  
Description: ML56 RR, 25D TIR OPTIC, 6" WHITE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

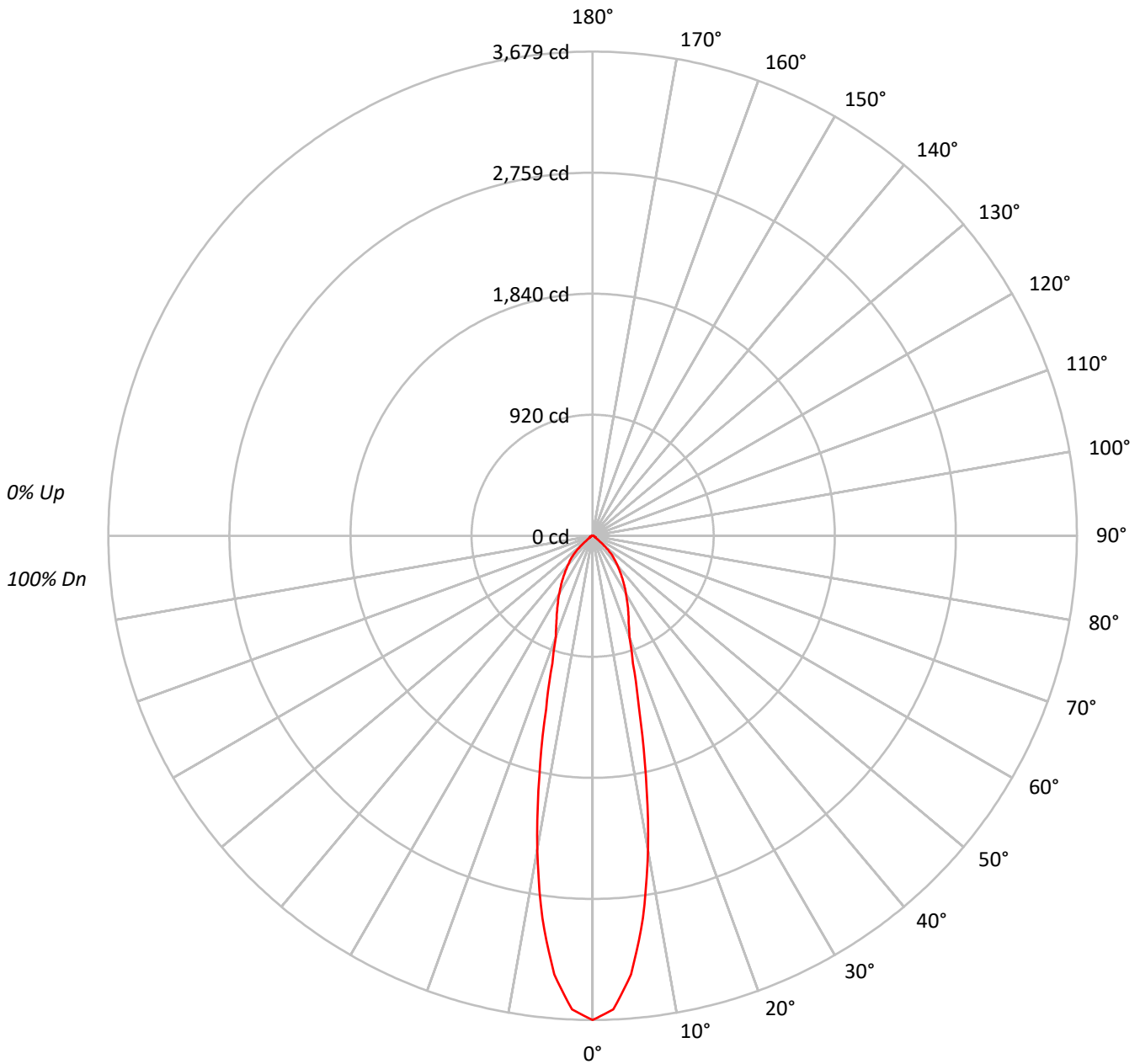
Lumens per Lamp: N/A  
Luminaire Lumens: 1453.6 lumens  
Efficiency: N/A  
Efficacy: 88.1 lumens/watt  
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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									
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																			
1	113	111	108	106	111	108	106	104	104	102	101	101	99	98	97	96	95	93																			
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	87																			
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	81																			
4	97	90	84	80	95	89	83	79	86	82	78	84	81	78	83	79	77	75																			
5	93	84	78	74	91	83	78	74	82	77	73	80	76	73	78	75	72	70																			
6	88	79	74	69	87	79	73	69	77	72	69	76	71	68	74	71	68	66																			
7	84	75	69	65	83	74	69	65	73	68	65	72	68	64	71	67	64	62																			
8	80	71	65	61	79	71	65	61	70	65	61	69	64	61	68	64	61	59																			
9	77	68	62	58	76	67	62	58	66	61	58	65	61	58	65	61	57	56																			
10	74	65	59	55	73	64	59	55	63	58	55	63	58	55	62	58	55	54																			

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

	0°
0°	201700
5°	184085
10°	135029
15°	77390
20°	47697
25°	38778
30°	32068
35°	26180
40°	20996
45°	16320
50°	9032
55°	3508
60°	2829
65°	2465
70°	2180
75°	2309
80°	2147
85°	1698

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 16320 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	289.4	19.9
10°-20°	392.1	27.0
20°-30°	295.7	20.3
30°-40°	245.1	16.9
40°-50°	156.3	10.8
50°-60°	41.6	2.9
60°-70°	19.3	1.3
70°-80°	10.9	0.8
80°-90°	3.2	0.2
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°	977.2	67.2
0°-40°	1222.3	84.1
0°-60°	1420.2	97.7
0°-90°	1453.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1453.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3679	
5°	3345	289
15°	1364	392
25°	641	296
35°	391	245
45°	210	156
55°	37	42
65°	19	19
75°	11	11
85°	3	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3679.3
2.5°	3603.2
5°	3345.2
7.5°	2929.6
10°	2425.7
12.5°	1866.1
15°	1363.6
17.5°	1017.3
20°	817.6
22.5°	717.1
25°	641.1
27.5°	570.4
30°	506.6
32.5°	446.8
35°	391.2
37.5°	339.5
40°	293.4
42.5°	251.3
45°	210.5
47.5°	156.2
50°	105.9
52.5°	55.7
55°	36.7
57.5°	29.9
60°	25.8
62.5°	23.1
65°	19.0
67.5°	16.3
70°	13.6
72.5°	12.2
75°	10.9
77.5°	8.1
80°	6.8
82.5°	4.1
85°	2.7
87.5°	1.4
90°	0.0

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Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)