

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: P640562

Luminaire Tested: ML5612LSFL4097FS1E - 592H - 600LM - 3000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640562  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-26)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSFL4097FS1E - 592H - 600LM - 3000K  
Description: ML56 RR, 40D TIR OPTIC, 5" HAZE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

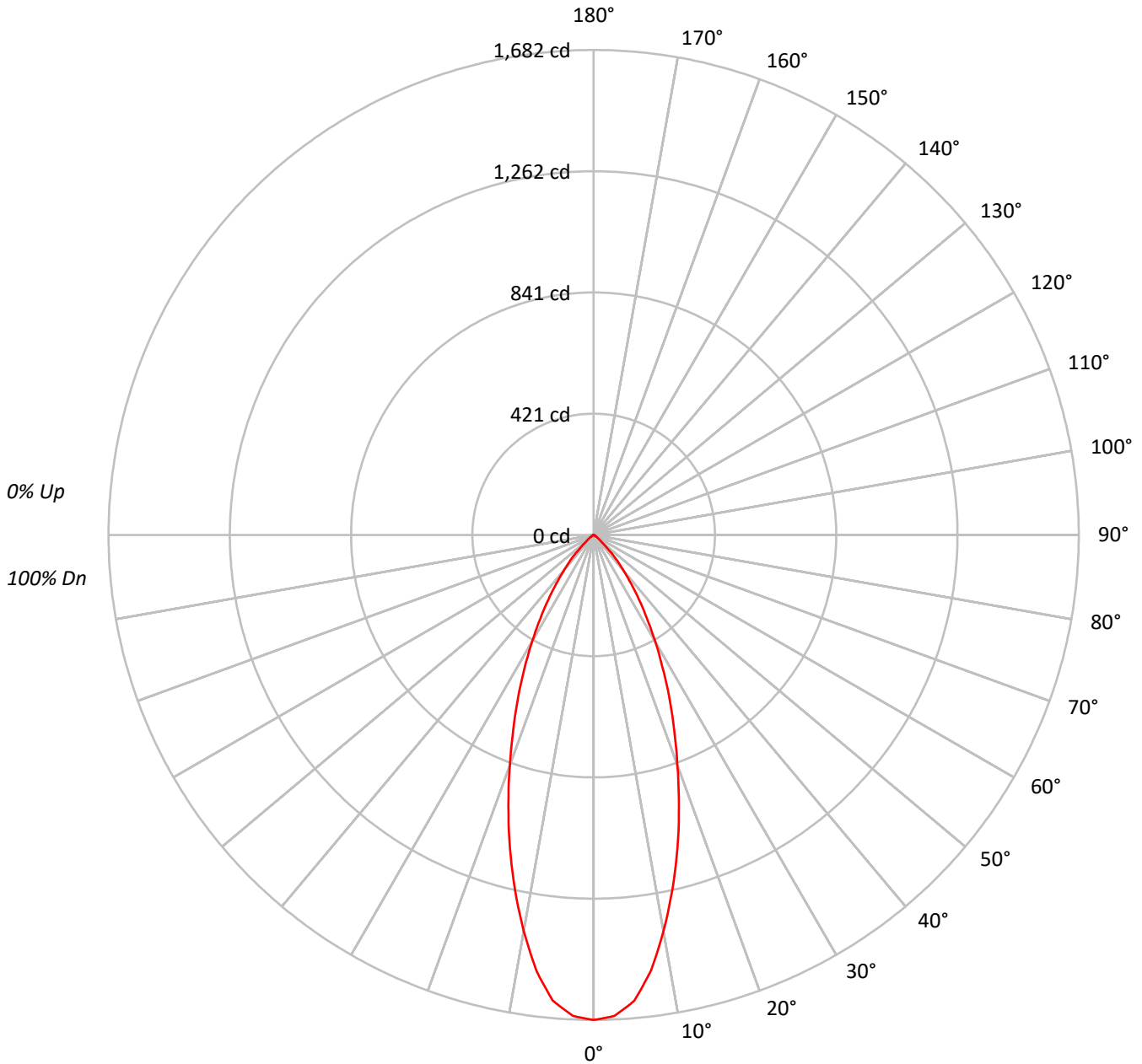
Lumens per Lamp: N/A  
Luminaire Lumens: 993.6 lumens  
Efficiency: N/A  
Efficacy: 96.5 lumens/watt  
Spacing Criteria (0/90/45): 0.64 / 0.64 / 0.69  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

Input Watts (W): 10.3  
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	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	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94					94			
2	108	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88					88			
3	103	97	92	89	101	96	91	88	93	90	87	91	88	85	89	86	84	82					82			
4	98	91	86	82	97	90	85	81	88	84	80	86	82	80	84	81	79	77					77			
5	94	86	80	76	92	85	80	76	83	79	75	82	78	75	80	77	74	72					72			
6	89	81	75	71	88	80	75	71	79	74	70	77	73	70	76	72	70	68					68			
7	85	77	71	67	84	76	70	67	75	70	66	73	69	66	72	69	66	64					64			
8	82	72	67	63	80	72	67	63	71	66	63	70	65	62	69	65	62	61					61			
9	78	69	63	59	77	68	63	59	67	63	59	67	62	59	66	62	59	57					57			
10	75	65	60	56	74	65	60	56	64	59	56	63	59	56	63	59	56	55					55			

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

	0°
0°	132787
5°	128507
10°	111837
15°	91713
20°	71280
25°	53864
30°	38749
35°	26386
40°	16406
45°	8987
50°	3328
55°	1927
60°	1105
65°	318
70°	0
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 8987 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	147.3	14.8
10°-20°	310.1	31.2
20°-30°	283.5	28.5
30°-40°	173.0	17.4
40°-50°	64.0	6.4
50°-60°	13.4	1.4
60°-70°	2.3	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°	740.9	74.6
0°-40°	913.9	92.0
0°-60°	991.3	99.8
0°-90°	993.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	993.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1682	
5°	1622	147
15°	1122	310
25°	618	283
35°	274	173
45°	80	64
55°	14	13
65°	2	2
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1682.1
2.5°	1669.8
5°	1621.7
7.5°	1523.7
10°	1395.2
12.5°	1260.4
15°	1122.2
17.5°	983.2
20°	848.5
22.5°	726.9
25°	618.4
27.5°	516.9
30°	425.1
32.5°	343.8
35°	273.8
37.5°	212.6
40°	159.2
42.5°	120.7
45°	80.5
47.5°	43.7
50°	27.1
52.5°	20.1
55°	14.0
57.5°	9.6
60°	7.0
62.5°	4.4
65°	1.7
67.5°	0.0
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

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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)