

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: P640586

Luminaire Tested: ML5612LSFL4097FS1E - 592W - 1200LM - 2700K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640586  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-27)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSFL4097FS1E - 592W - 1200LM - 2700K  
Description: ML56 RR, 40D TIR OPTIC, 5" WHITE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1501.7 lumens  
Efficiency: N/A  
Efficacy: 91.0 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

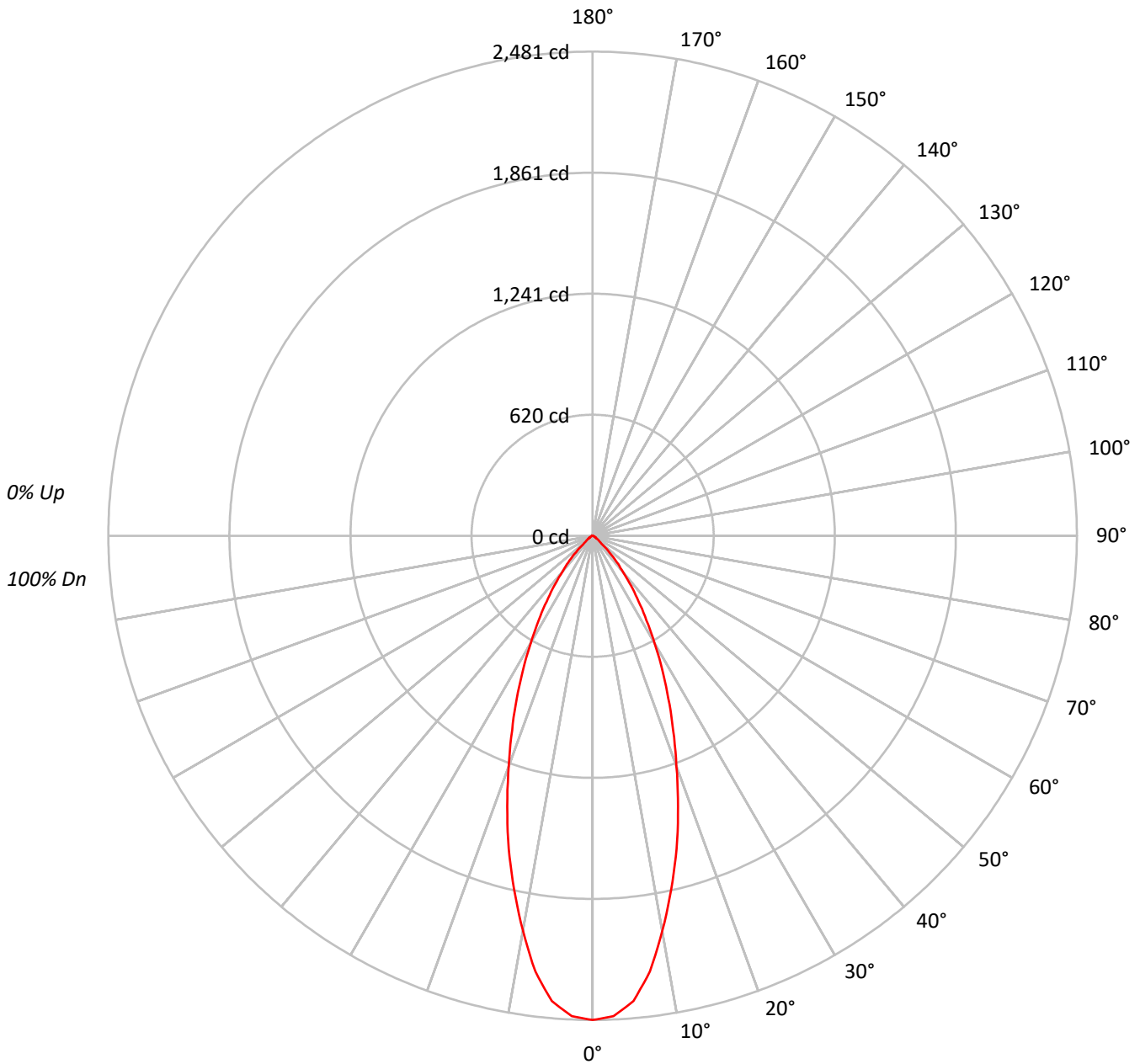
Input Watts (W): 16.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	114	111	108	106	111	109	106	104	105	103	101	101	100	98	97	96	95	94																			
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87																			
3	103	97	92	88	101	95	91	87	93	89	86	90	87	84	88	85	83	81																			
4	98	90	85	81	96	89	84	80	87	83	80	85	82	79	83	80	78	76																			
5	93	85	79	75	92	84	79	75	82	78	74	81	77	73	79	76	73	71																			
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67																			
7	85	76	70	66	83	75	69	66	74	69	65	73	68	65	71	68	65	63																			
8	81	72	66	62	80	71	66	62	70	65	61	69	64	61	68	64	61	60																			
9	77	68	62	58	76	67	62	58	67	62	58	66	61	58	65	61	58	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°	195845
5°	189691
10°	164774
15°	135714
20°	105429
25°	79968
30°	57800
35°	39588
40°	24918
45°	14602
50°	5846
55°	3812
60°	2716
65°	1718
70°	1523
75°	1617
80°	1818
85°	1177

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 14602 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	217.4	14.5
10°-20°	458.1	30.5
20°-30°	420.9	28.0
30°-40°	259.9	17.3
40°-50°	101.6	6.8
50°-60°	26.2	1.7
60°-70°	10.4	0.7
70°-80°	5.3	0.3
80°-90°	2.0	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°	1096.4	73.0
0°-40°	1356.3	90.3
0°-60°	1484.1	98.8
0°-90°	1501.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1501.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2481	
5°	2394	217
15°	1661	458
25°	918	421
35°	411	260
45°	131	102
55°	28	26
65°	9	10
75°	5	5
85°	1	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2480.9
2.5°	2463.8
5°	2393.8
7.5°	2251.1
10°	2055.6
12.5°	1857.4
15°	1660.6
17.5°	1454.5
20°	1255.0
22.5°	1078.0
25°	918.1
27.5°	768.9
30°	634.1
32.5°	513.9
35°	410.8
37.5°	322.3
40°	241.8
42.5°	184.9
45°	130.8
47.5°	75.3
50°	47.6
52.5°	37.0
55°	27.7
57.5°	21.1
60°	17.2
62.5°	14.5
65°	9.2
67.5°	6.6
70°	6.6
72.5°	5.3
75°	5.3
77.5°	4.0
80°	4.0
82.5°	2.6
85°	1.3
87.5°	1.3
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)