

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: P640563

Luminaire Tested: ML5612LSFL4097FS1E - 592H - 600LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640563
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 - 3500K
Description: ML56 RR, 40D TIR OPTIC, 5" HAZE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

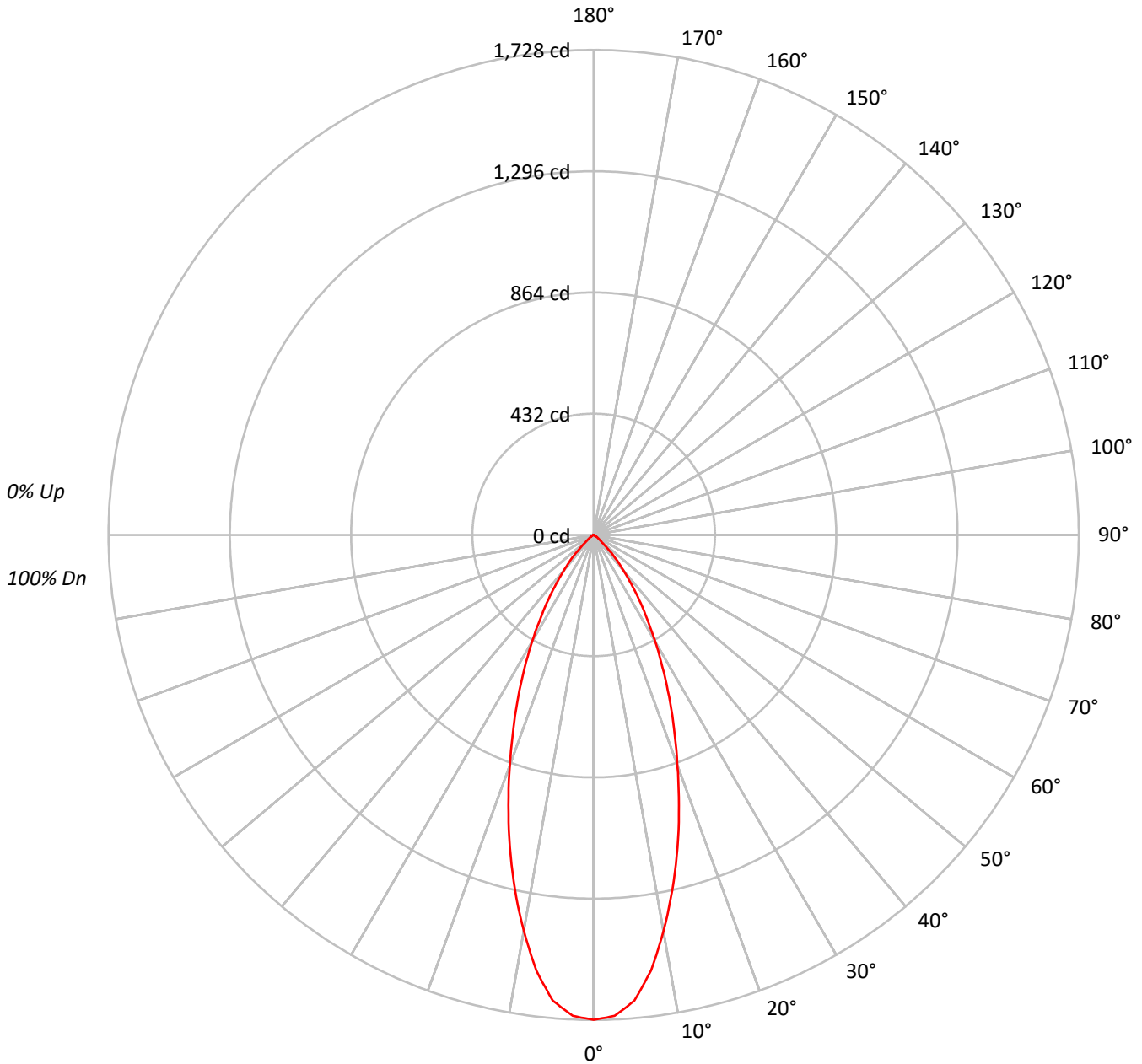
Lumens per Lamp: N/A
Luminaire Lumens: 1020.7 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Spacing Criteria (0/90/45): 0.64 / 0.64 / 0.69
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	136394
5°	132002
10°	114875
15°	94213
20°	73221
25°	55327
30°	39807
35°	27099
40°	16849
45°	9233
50°	3426
55°	1982
60°	1137
65°	336
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9233 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.3	14.8
10°-20°	318.5	31.2
20°-30°	291.2	28.5
30°-40°	177.7	17.4
40°-50°	65.7	6.4
50°-60°	13.8	1.4
60°-70°	2.4	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°	761.0	74.6
0°-40°	938.7	92.0
0°-60°	1018.3	99.8
0°-90°	1020.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1020.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1728	
5°	1666	151
15°	1153	319
25°	635	291
35°	281	178
45°	83	66
55°	14	14
65°	2	2
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1727.8
2.5°	1715.3
5°	1665.8
7.5°	1565.2
10°	1433.1
12.5°	1294.8
15°	1152.8
17.5°	1009.9
20°	871.6
22.5°	746.7
25°	635.2
27.5°	531.0
30°	436.7
32.5°	353.1
35°	281.2
37.5°	218.3
40°	163.5
42.5°	124.0
45°	82.7
47.5°	44.9
50°	27.9
52.5°	20.7
55°	14.4
57.5°	9.9
60°	7.2
62.5°	4.5
65°	1.8
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

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)