

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: P640694

Luminaire Tested: ML5612LSFL4097FS1E - 594WB - 1200LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640694
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-32)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSFL4097FS1E - 594WB - 1200LM - 4000K
Description: ML56 RR, 40D TIR OPTIC, 5" WHITE GIMBAL TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

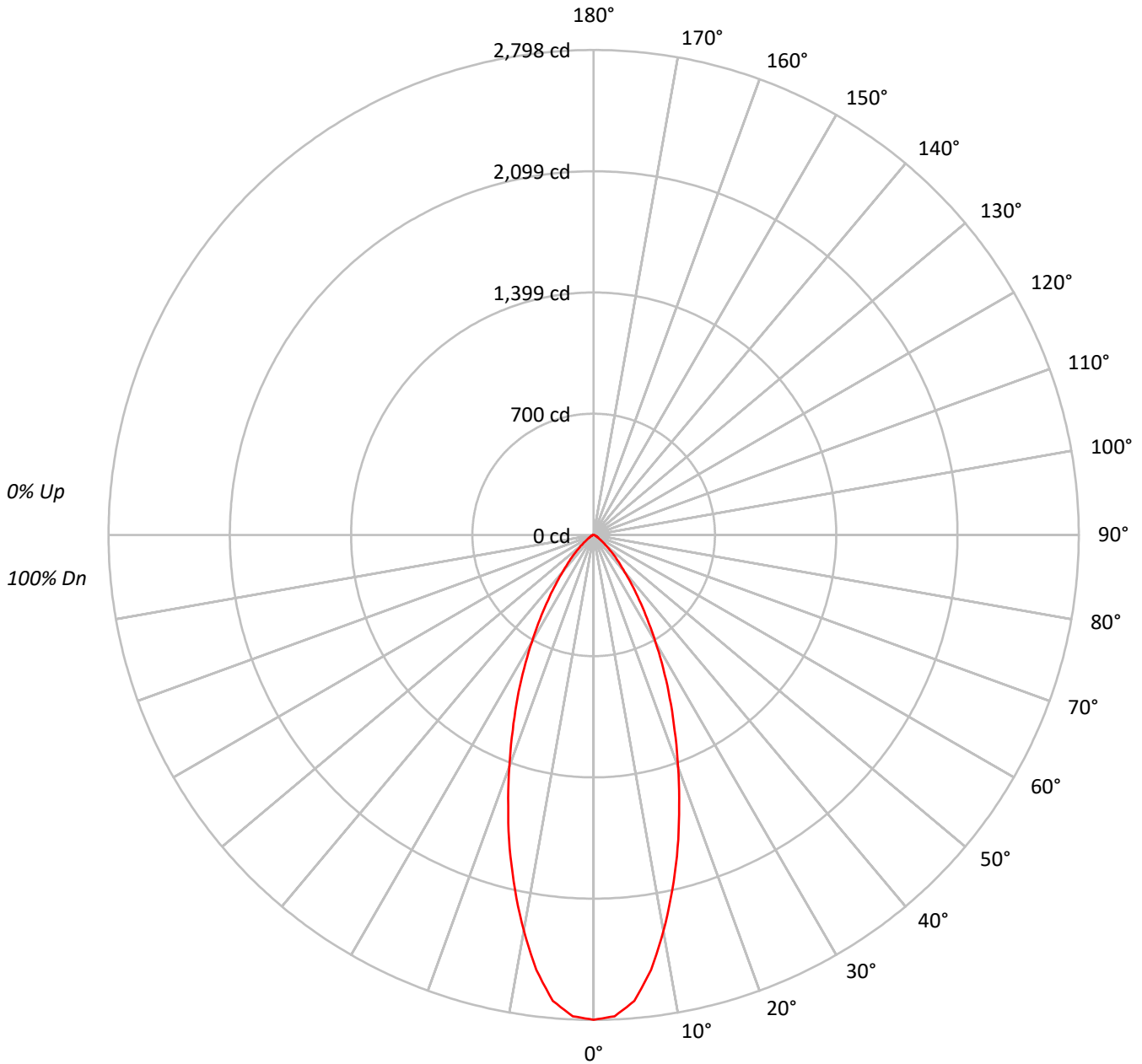
Lumens per Lamp: N/A
Luminaire Lumens: 1725.1 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Spacing Criteria (0/90/45): 0.64 / 0.64 / 0.69
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 16.5
Input Voltage (V): NR
Input Current (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	113	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	93																			
2	108	103	99	96	106	101	98	95	98	95	92	95	93	90	92	90	89	87																			
3	103	96	91	87	101	95	90	87	92	88	85	90	86	84	87	85	83	81																			
4	97	90	84	80	96	89	84	80	87	82	79	85	81	78	83	80	77	76																			
5	93	84	79	74	91	83	78	74	82	77	73	80	76	73	78	75	72	71																			
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	64	72	67	64	71	67	64	62																			
8	80	71	65	61	79	70	65	61	69	64	61	68	64	60	67	63	60	59																			
9	77	67	61	58	76	67	61	57	66	61	57	65	60	57	64	60	57	56																			
10	73	64	58	54	72	63	58	54	63	58	54	62	57	54	61	57	54	53																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	220845
5°	213828
10°	185968
15°	152909
20°	119467
25°	90507
30°	64883
35°	44137
40°	28473
45°	18275
50°	10697
55°	5987
60°	4026
65°	2802
70°	2423
75°	1830
80°	1364
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 18275 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.0	14.2
10°-20°	516.9	30.0
20°-30°	475.6	27.6
30°-40°	290.9	16.9
40°-50°	130.0	7.5
50°-60°	43.1	2.5
60°-70°	16.3	0.9
70°-80°	6.5	0.4
80°-90°	0.8	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°	1237.5	71.7
0°-40°	1528.4	88.6
0°-60°	1701.5	98.6
0°-90°	1725.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1725.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2798	
5°	2698	245
15°	1871	517
25°	1039	476
35°	458	291
45°	164	130
55°	44	43
65°	15	16
75°	6	7
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2797.6
2.5°	2779.5
5°	2698.4
7.5°	2531.8
10°	2320.0
12.5°	2096.3
15°	1871.0
17.5°	1639.8
20°	1422.1
22.5°	1219.3
25°	1039.1
27.5°	867.9
30°	711.8
32.5°	575.1
35°	458.0
37.5°	358.9
40°	276.3
42.5°	214.7
45°	163.7
47.5°	121.6
50°	87.1
52.5°	61.6
55°	43.5
57.5°	33.0
60°	25.5
62.5°	21.0
65°	15.0
67.5°	12.0
70°	10.5
72.5°	7.5
75°	6.0
77.5°	4.5
80°	3.0
82.5°	1.5
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)