

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: P640706

Luminaire Tested: ML5612LSFL4097FS1E - 596WB - 1200LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640706
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-35)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSFL4097FS1E - 596WB - 1200LM - 2700K
Description: ML56 RR, 40D TIR OPTIC, 5" SHALLOW WHITE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

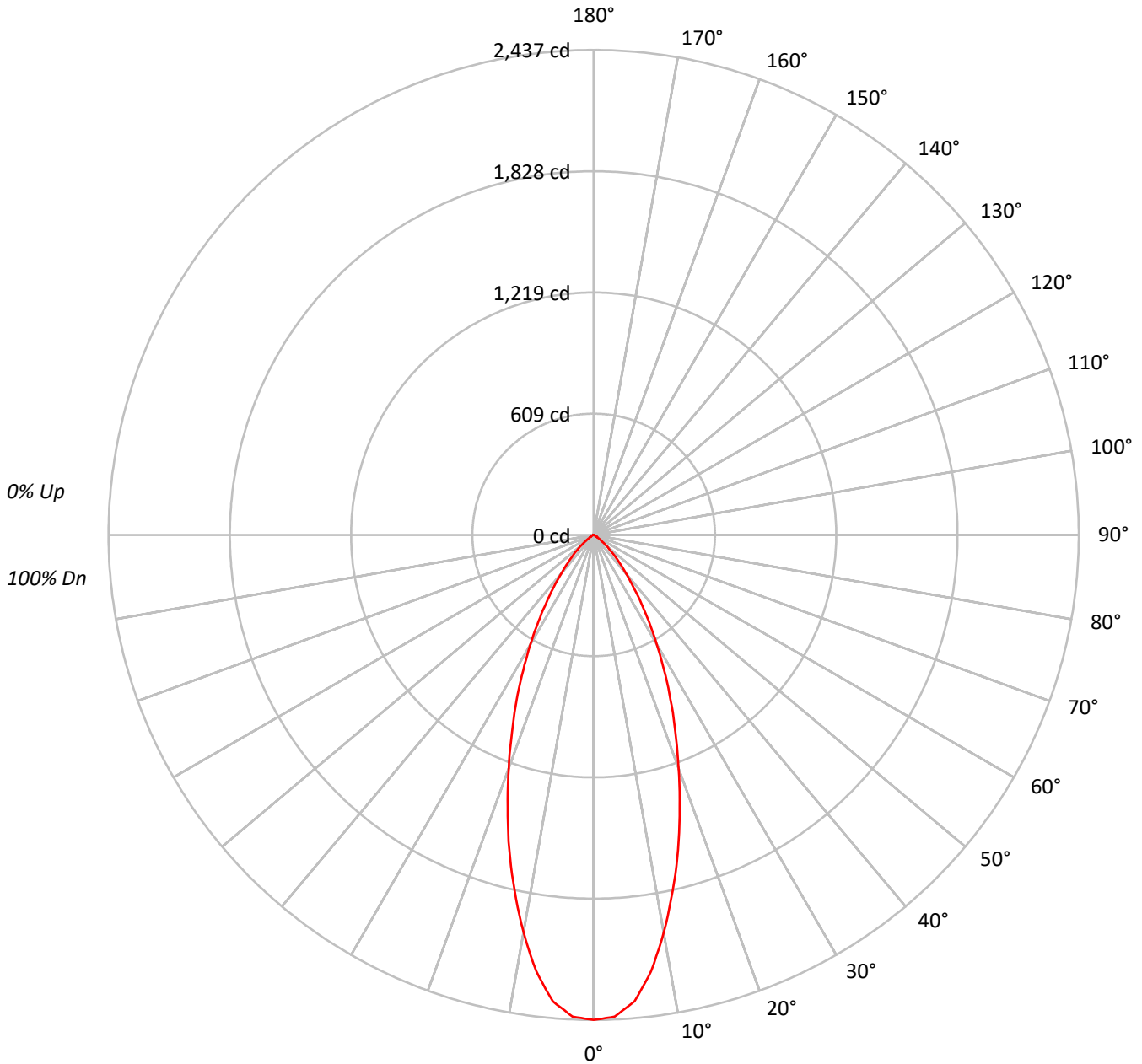
Lumens per Lamp: N/A
Luminaire Lumens: 1510.9 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Spacing Criteria (0/90/45): 0.64 / 0.64 / 0.7
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 16.5
Input Voltage (V): NR
Input Current (A_{in}): 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	101	98	95	98	95	93	95	93	91	93	91	89	87																			
3	103	96	91	88	101	95	90	87	92	89	85	90	87	84	88	85	83	81																			
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76																			
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71																			
6	88	80	74	70	87	79	73	69	77	73	69	76	72	68	75	71	68	67																			
7	84	75	69	65	83	75	69	65	73	68	65	72	68	64	71	67	64	63																			
8	80	71	65	61	79	71	65	61	69	64	61	68	64	61	67	63	60	59																			
9	77	67	62	58	76	67	61	58	66	61	57	65	61	57	64	60	57	56																			
10	73	64	58	55	72	64	58	55	63	58	54	62	57	54	61	57	54	53																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	192387
5°	186418
10°	162618
15°	133932
20°	104698
25°	79663
30°	57828
35°	39733
40°	26010
45°	16824
50°	9579
55°	4005
60°	2716
65°	1476
70°	923
75°	793
80°	591
85°	1177

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16824 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.8	14.2
10°-20°	452.5	30.0
20°-30°	418.9	27.7
30°-40°	261.7	17.3
40°-50°	118.2	7.8
50°-60°	33.0	2.2
60°-70°	9.1	0.6
70°-80°	2.8	0.2
80°-90°	0.9	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°	1085.3	71.8
0°-40°	1347.0	89.2
0°-60°	1498.2	99.2
0°-90°	1510.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1510.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2437	
5°	2352	214
15°	1639	453
25°	915	419
35°	412	262
45°	151	118
55°	29	33
65°	8	9
75°	3	3
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2437.1
2.5°	2422.5
5°	2352.5
7.5°	2211.1
10°	2028.7
12.5°	1833.1
15°	1638.8
17.5°	1436.6
20°	1246.3
22.5°	1071.8
25°	914.6
27.5°	765.2
30°	634.4
32.5°	515.4
35°	412.3
37.5°	325.1
40°	252.4
42.5°	195.6
45°	150.7
47.5°	108.4
50°	78.0
52.5°	51.5
55°	29.1
57.5°	21.1
60°	17.2
62.5°	13.2
65°	7.9
67.5°	5.3
70°	4.0
72.5°	2.6
75°	2.6
77.5°	2.6
80°	1.3
82.5°	1.3
85°	1.3
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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