

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: P640710

Luminaire Tested: ML5612LSFL4097FS1E - 596WB - 1200LM - 5000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640710
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 - 5000K
Description: ML56 RR, 40D TIR OPTIC, 5" SHALLOW WHITE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

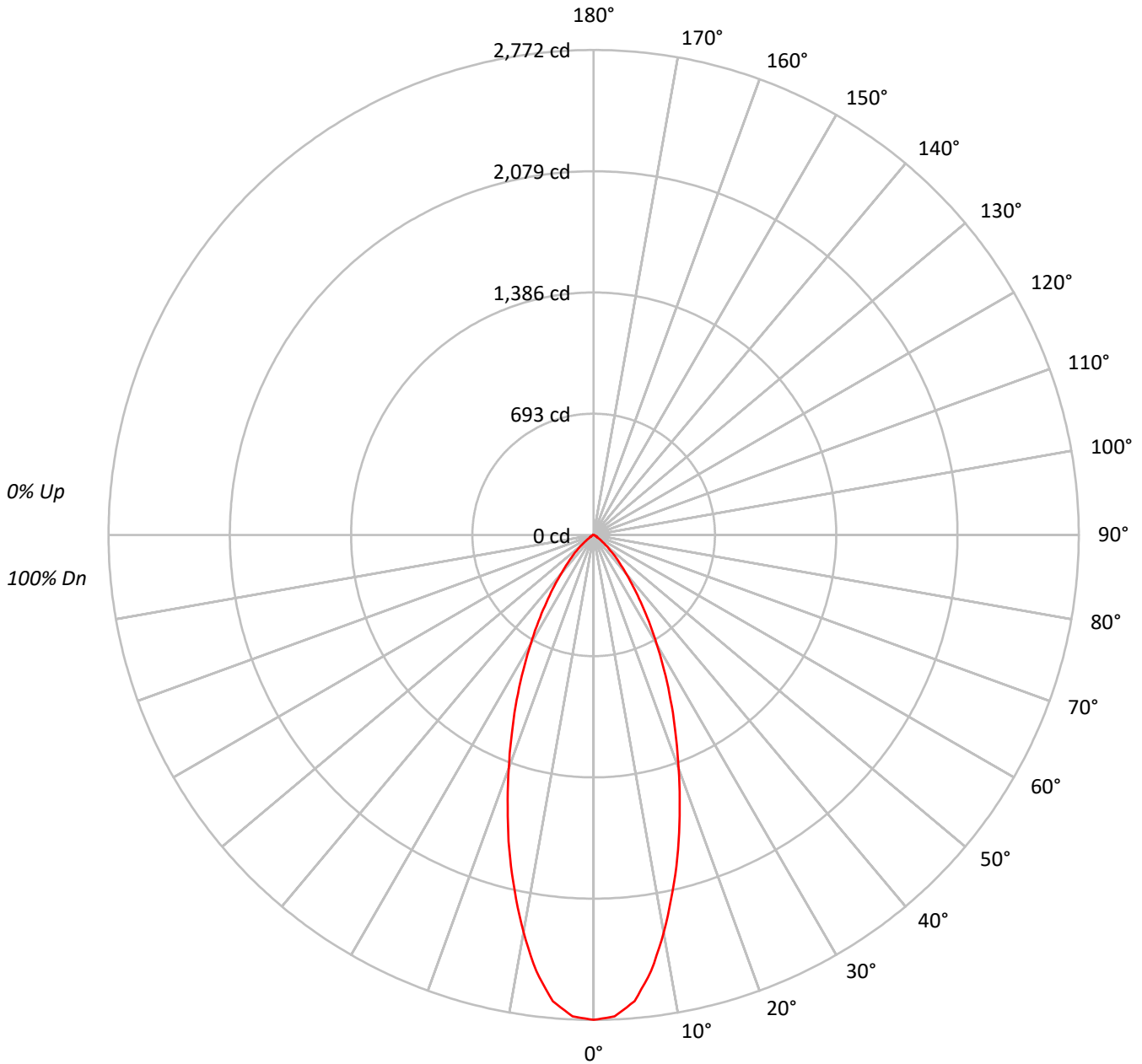
Lumens per Lamp: N/A
Luminaire Lumens: 1718.2 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Spacing Criteria (0/90/45): 0.64 / 0.64 / 0.7
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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				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	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°	218793
5°	212005
10°	184934
15°	152312
20°	119063
25°	90594
30°	65758
35°	45187
40°	29586
45°	19124
50°	10893
55°	4556
60°	3079
65°	1681
70°	1039
75°	915
80°	682
85°	1359

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 19124 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.2	14.2
10°-20°	514.6	30.0
20°-30°	476.4	27.7
30°-40°	297.6	17.3
40°-50°	134.4	7.8
50°-60°	37.5	2.2
60°-70°	10.3	0.6
70°-80°	3.2	0.2
80°-90°	1.0	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°	1234.2	71.8
0°-40°	1531.9	89.2
0°-60°	1703.7	99.2
0°-90°	1718.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1718.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2772	
5°	2675	243
15°	1864	515
25°	1040	476
35°	469	298
45°	171	134
55°	33	37
65°	9	10
75°	3	3
85°	2	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2771.6
2.5°	2755.0
5°	2675.4
7.5°	2514.5
10°	2307.1
12.5°	2084.7
15°	1863.7
17.5°	1633.8
20°	1417.3
22.5°	1218.9
25°	1040.1
27.5°	870.2
30°	721.4
32.5°	586.2
35°	468.9
37.5°	369.7
40°	287.1
42.5°	222.4
45°	171.3
47.5°	123.2
50°	88.7
52.5°	58.6
55°	33.1
57.5°	24.0
60°	19.5
62.5°	15.0
65°	9.0
67.5°	6.0
70°	4.5
72.5°	3.0
75°	3.0
77.5°	3.0
80°	1.5
82.5°	1.5
85°	1.5
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)