

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: P640931

Luminaire Tested: ML5612LSNFL2597FS1E - 592W - 1200LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640931
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-4)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSNFL2597FS1E - 592W - 1200LM - 2700K
Description: ML56 RR, 25D TIR OPTIC, 5" WHITE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

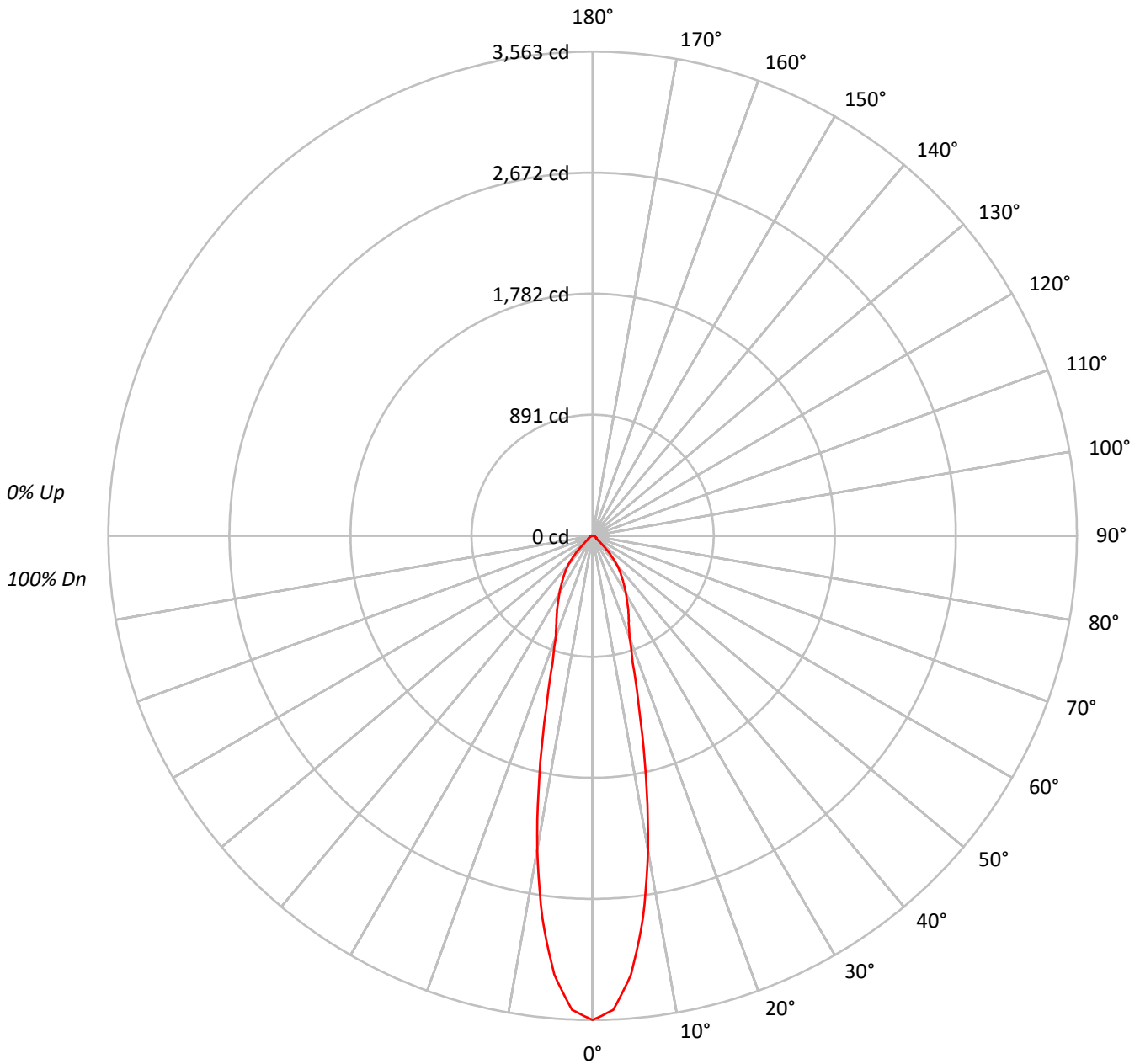
Lumens per Lamp: N/A
Luminaire Lumens: 1380.1 lumens
Efficiency: N/A
Efficacy: 83.6 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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	113	110	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93																			
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86																			
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	81																			
4	97	90	84	80	96	89	84	80	87	82	79	85	81	78	83	79	77	75																			
5	93	84	79	74	91	84	78	74	82	77	73	80	76	73	79	75	72	71																			
6	88	80	74	70	87	79	73	69	77	73	69	76	72	69	75	71	68	67																			
7	85	76	70	66	83	75	69	65	74	69	65	72	68	65	71	67	64	63																			
8	81	72	66	62	80	71	66	62	70	65	62	69	65	61	68	64	61	60																			
9	78	68	63	59	76	68	62	59	67	62	59	66	62	58	65	61	58	57																			
10	74	65	60	56	73	65	59	56	64	59	56	63	59	56	63	58	55	54																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	281274
5°	256809
10°	188012
15°	107927
20°	66458
25°	54290
30°	44537
35°	36273
40°	28576
45°	17695
50°	6644
55°	5092
60°	4800
65°	4446
70°	4270
75°	4423
80°	4182
85°	3623

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 17695 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.2	20.3
10°-20°	379.1	27.5
20°-30°	286.4	20.8
30°-40°	236.0	17.1
40°-50°	120.7	8.7
50°-60°	34.5	2.5
60°-70°	23.7	1.7
70°-80°	15.2	1.1
80°-90°	4.5	0.3
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°	945.7	68.5
0°-40°	1181.6	85.6
0°-60°	1336.8	96.9
0°-90°	1380.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1380.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3563	
5°	3241	280
15°	1321	379
25°	623	286
35°	376	236
45°	158	121
55°	37	34
65°	24	24
75°	14	15
85°	4	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3563.1
2.5°	3491.8
5°	3240.8
7.5°	2836.7
10°	2345.5
12.5°	1806.6
15°	1320.6
17.5°	978.6
20°	791.1
22.5°	694.7
25°	623.3
27.5°	552.0
30°	488.6
32.5°	430.5
35°	376.4
37.5°	328.8
40°	277.3
42.5°	213.9
45°	158.5
47.5°	97.7
50°	54.1
52.5°	42.3
55°	37.0
57.5°	33.0
60°	30.4
62.5°	26.4
65°	23.8
67.5°	21.1
70°	18.5
72.5°	17.2
75°	14.5
77.5°	11.9
80°	9.2
82.5°	6.6
85°	4.0
87.5°	1.3
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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