

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: P640886

Luminaire Tested: ML5612LSNFL2597FS1E - 591WB - 1200LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640886
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSNFL2597FS1E - 591WB - 1200LM - 2700K
Description: ML56 RR, 25D TIR OPTIC, 5" DEADFRONT TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1402.6 lumens
Efficiency: N/A
Efficacy: 85.0 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

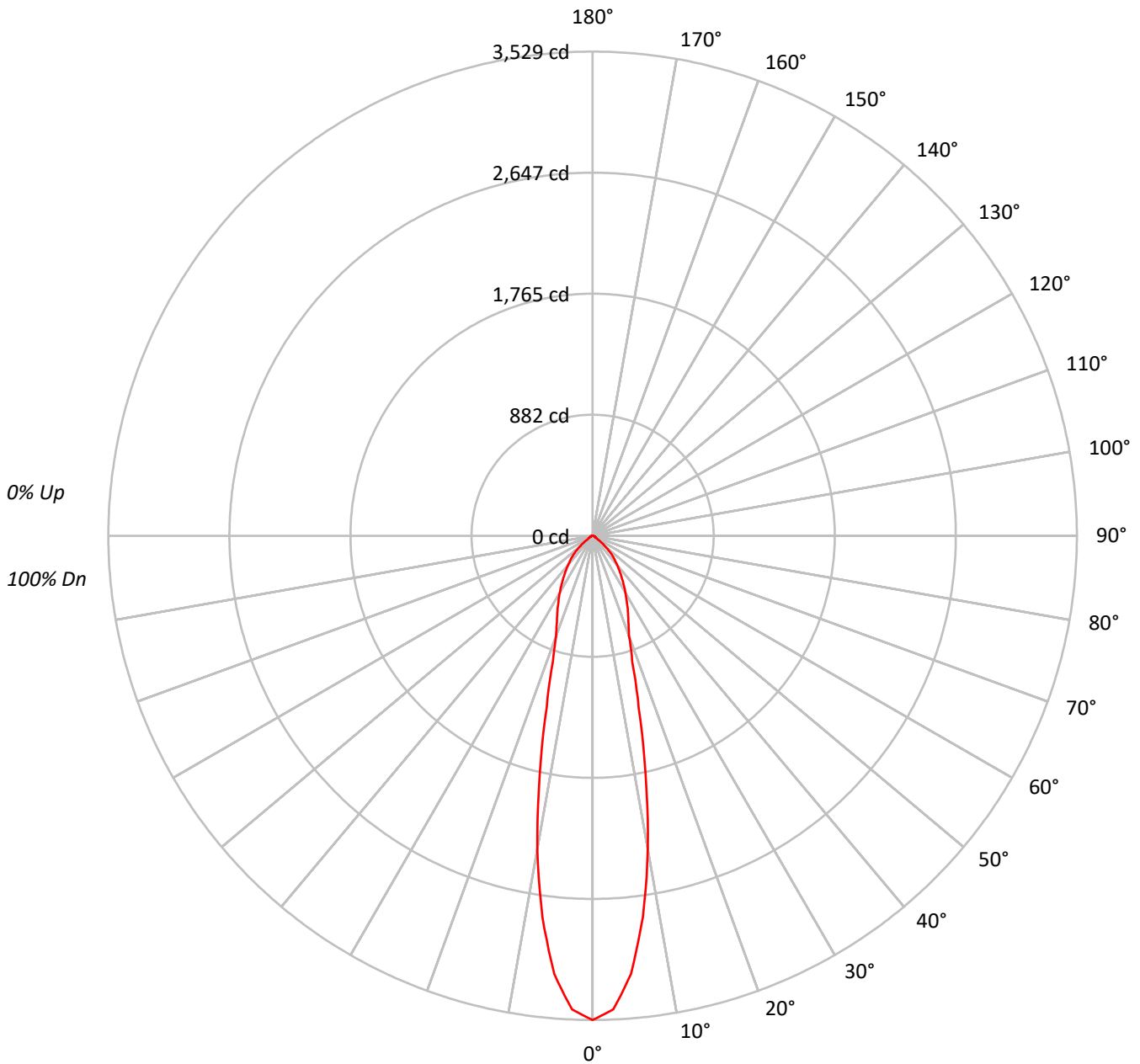
Input Watts (W): 16.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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	113	110	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93			
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86			
3	102	95	90	86	100	94	89	86	91	87	84	89	86	83	87	84	82	80			
4	97	89	84	79	95	88	83	79	86	81	78	84	80	77	82	79	76	75			
5	92	84	78	74	90	83	77	73	81	76	73	79	75	72	78	74	71	70			
6	88	79	73	69	86	78	72	68	77	72	68	75	71	67	74	70	67	66			
7	84	75	69	64	82	74	68	64	73	68	64	71	67	64	70	66	63	62			
8	80	71	65	61	79	70	64	61	69	64	60	68	63	60	67	63	60	58			
9	77	67	61	58	76	67	61	57	66	61	57	65	60	57	64	60	57	56			
10	73	64	58	55	72	64	58	55	63	58	54	62	58	54	61	57	54	53			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	278582
5°	253996
10°	185872
15°	105818
20°	65156
25°	52940
30°	43599
35°	35396
40°	28596
45°	22864
50°	14934
55°	6551
60°	4168
65°	3698
70°	3347
75°	3233
80°	3591
85°	3623

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 22864 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.0	19.8
10°-20°	372.8	26.6
20°-30°	279.9	20.0
30°-40°	230.8	16.5
40°-50°	153.9	11.0
50°-60°	52.2	3.7
60°-70°	20.1	1.4
70°-80°	11.3	0.8
80°-90°	4.7	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°	929.7	66.3
0°-40°	1160.5	82.7
0°-60°	1366.6	97.4
0°-90°	1402.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1402.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3529	
5°	3205	277
15°	1295	373
25°	608	280
35°	367	231
45°	205	154
55°	48	52
65°	20	20
75°	11	11
85°	4	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3529.0
2.5°	3456.4
5°	3205.3
7.5°	2802.4
10°	2318.8
12.5°	1779.7
15°	1294.8
17.5°	960.5
20°	775.6
22.5°	679.1
25°	607.8
27.5°	539.1
30°	478.3
32.5°	420.2
35°	367.3
37.5°	319.7
40°	277.5
42.5°	239.1
45°	204.8
47.5°	159.9
50°	121.6
52.5°	83.2
55°	47.6
57.5°	31.7
60°	26.4
62.5°	23.8
65°	19.8
67.5°	17.2
70°	14.5
72.5°	11.9
75°	10.6
77.5°	9.2
80°	7.9
82.5°	6.6
85°	4.0
87.5°	2.6
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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