

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: P640993

Luminaire Tested: ML5612LSNFL2597FS1E - 593WB - 1200LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640993
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-5)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSNFL2597FS1E - 593WB - 1200LM - 3500K
Description: ML56 RR, 25D TIR OPTIC, 5" WHITE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1456.9 lumens
Efficiency: N/A
Efficacy: 88.3 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

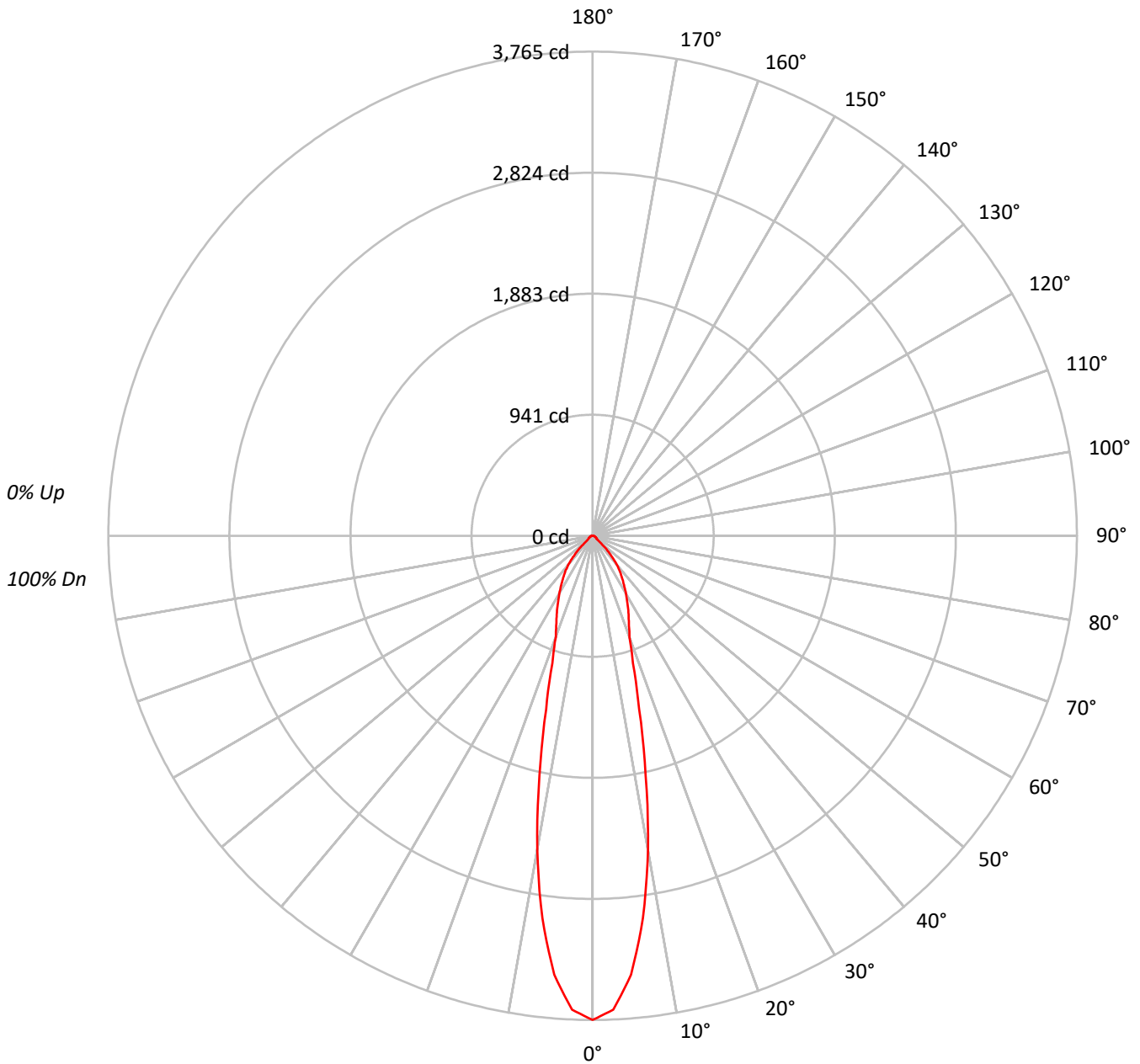
Input Watts (W): 16.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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			100																
1	113	110	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93			93																
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86			86																
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	81			81																
4	97	90	84	80	96	89	84	80	87	82	79	85	81	78	83	80	77	75			75																
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71			71																
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67			67																
7	85	76	70	66	83	75	69	66	74	69	65	72	68	65	71	67	64	63			63																
8	81	72	66	62	80	71	66	62	70	65	62	69	65	61	68	64	61	60			60																
9	78	68	63	59	77	68	62	59	67	62	59	66	62	58	65	61	58	57			57																
10	74	65	60	56	74	65	60	56	64	59	56	63	59	56	63	58	56	54			54																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	297181
5°	271540
10°	198898
15°	114122
20°	70381
25°	57287
30°	47099
35°	38355
40°	30214
45°	18554
50°	6865
55°	5189
60°	4847
65°	4427
70°	4501
75°	4697
80°	4455
85°	5072

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 18554 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.2	20.3
10°-20°	401.2	27.5
20°-30°	302.8	20.8
30°-40°	249.3	17.1
40°-50°	126.9	8.7
50°-60°	35.5	2.4
60°-70°	24.1	1.7
70°-80°	15.7	1.1
80°-90°	5.1	0.4
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°	1000.1	68.7
0°-40°	1249.4	85.8
0°-60°	1411.9	96.9
0°-90°	1456.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1456.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3765	
5°	3427	296
15°	1396	401
25°	658	303
35°	398	249
45°	166	127
55°	38	36
65°	24	24
75°	15	16
85°	6	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3764.6
2.5°	3687.8
5°	3426.7
7.5°	2998.0
10°	2481.3
12.5°	1907.4
15°	1396.4
17.5°	1040.3
20°	837.8
22.5°	734.5
25°	657.7
27.5°	583.7
30°	516.7
32.5°	453.8
35°	398.0
37.5°	347.7
40°	293.2
42.5°	226.2
45°	166.2
47.5°	101.9
50°	55.9
52.5°	43.3
55°	37.7
57.5°	34.9
60°	30.7
62.5°	27.9
65°	23.7
67.5°	20.9
70°	19.5
72.5°	16.8
75°	15.4
77.5°	12.6
80°	9.8
82.5°	7.0
85°	5.6
87.5°	1.4
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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