

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: P641173

Luminaire Tested: ML5612LSNFL2597FS1E - 693WB - 1200LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641173
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSNFL2597FS1E - 693WB - 1200LM - 3500K
Description: ML56 RR, 25D TIR OPTIC, 6" WHITE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1489.0 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

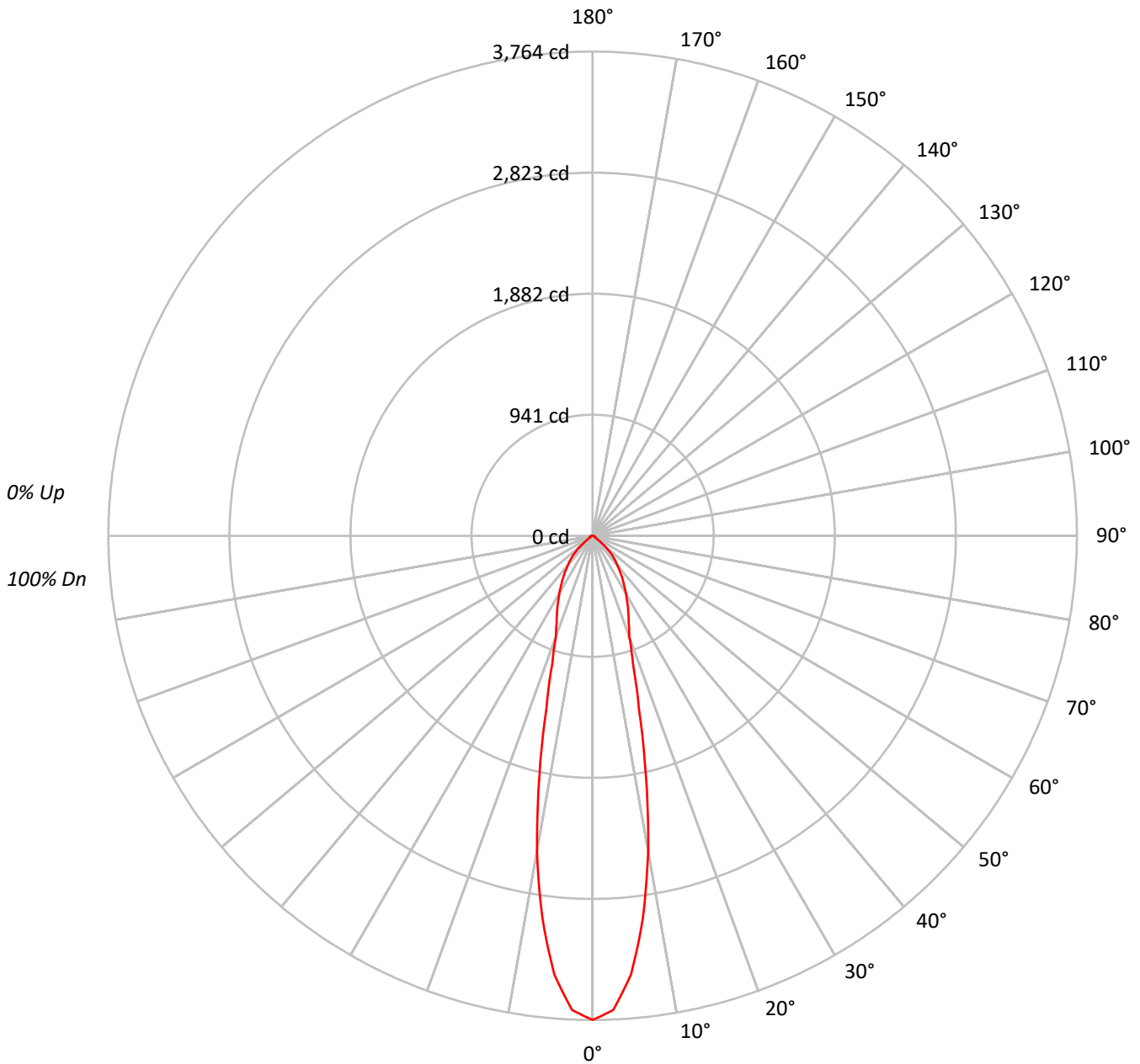
Input Watts (W): 16.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	106	111	108	106	104	104	102	101	101	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	80			
4	97	90	84	80	95	88	83	79	86	82	78	84	81	77	82	79	77	75			
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	70			
6	88	79	73	69	87	79	73	69	77	72	68	76	71	68	74	71	68	66			
7	84	75	69	65	83	74	69	65	73	68	64	72	67	64	71	67	64	62			
8	80	71	65	61	79	71	65	61	70	64	61	68	64	61	68	63	60	59			
9	77	68	62	58	76	67	62	58	66	61	58	65	61	58	65	60	57	56			
10	74	65	59	55	73	64	59	55	63	58	55	63	58	55	62	58	55	53			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	206338
5°	188311
10°	138441
15°	78888
20°	48608
25°	39674
30°	32689
35°	26803
40°	21476
45°	16878
50°	9637
55°	3469
60°	2905
65°	2529
70°	2244
75°	2372
80°	2652
85°	2642

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16878 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.2	19.9
10°-20°	400.8	26.9
20°-30°	301.9	20.3
30°-40°	250.6	16.8
40°-50°	161.5	10.8
50°-60°	42.8	2.9
60°-70°	19.1	1.3
70°-80°	11.8	0.8
80°-90°	4.2	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°	998.9	67.1
0°-40°	1249.5	83.9
0°-60°	1453.9	97.6
0°-90°	1489.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1489.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3764	
5°	3422	296
15°	1390	401
25°	656	302
35°	400	251
45°	218	161
55°	36	43
65°	20	19
75°	11	12
85°	4	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3763.9
2.5°	3690.0
5°	3422.0
7.5°	2996.3
10°	2487.0
12.5°	1910.6
15°	1390.0
17.5°	1039.7
20°	833.2
22.5°	731.3
25°	655.9
27.5°	583.4
30°	516.4
32.5°	456.4
35°	400.5
37.5°	347.5
40°	300.1
42.5°	258.2
45°	217.7
47.5°	161.9
50°	113.0
52.5°	58.6
55°	36.3
57.5°	29.3
60°	26.5
62.5°	22.3
65°	19.5
67.5°	15.4
70°	14.0
72.5°	12.6
75°	11.2
77.5°	9.8
80°	8.4
82.5°	5.6
85°	4.2
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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