

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: P641218

Luminaire Tested: ML5612LSNFL2597FS1E - 696WB - 1200LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641218
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-23)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSNFL2597FS1E - 696WB - 1200LM - 3500K
Description: ML56 RR, 25D TIR OPTIC, 6" SHALLOW WHITE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1516.9 lumens
Efficiency: N/A
Efficacy: 91.9 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

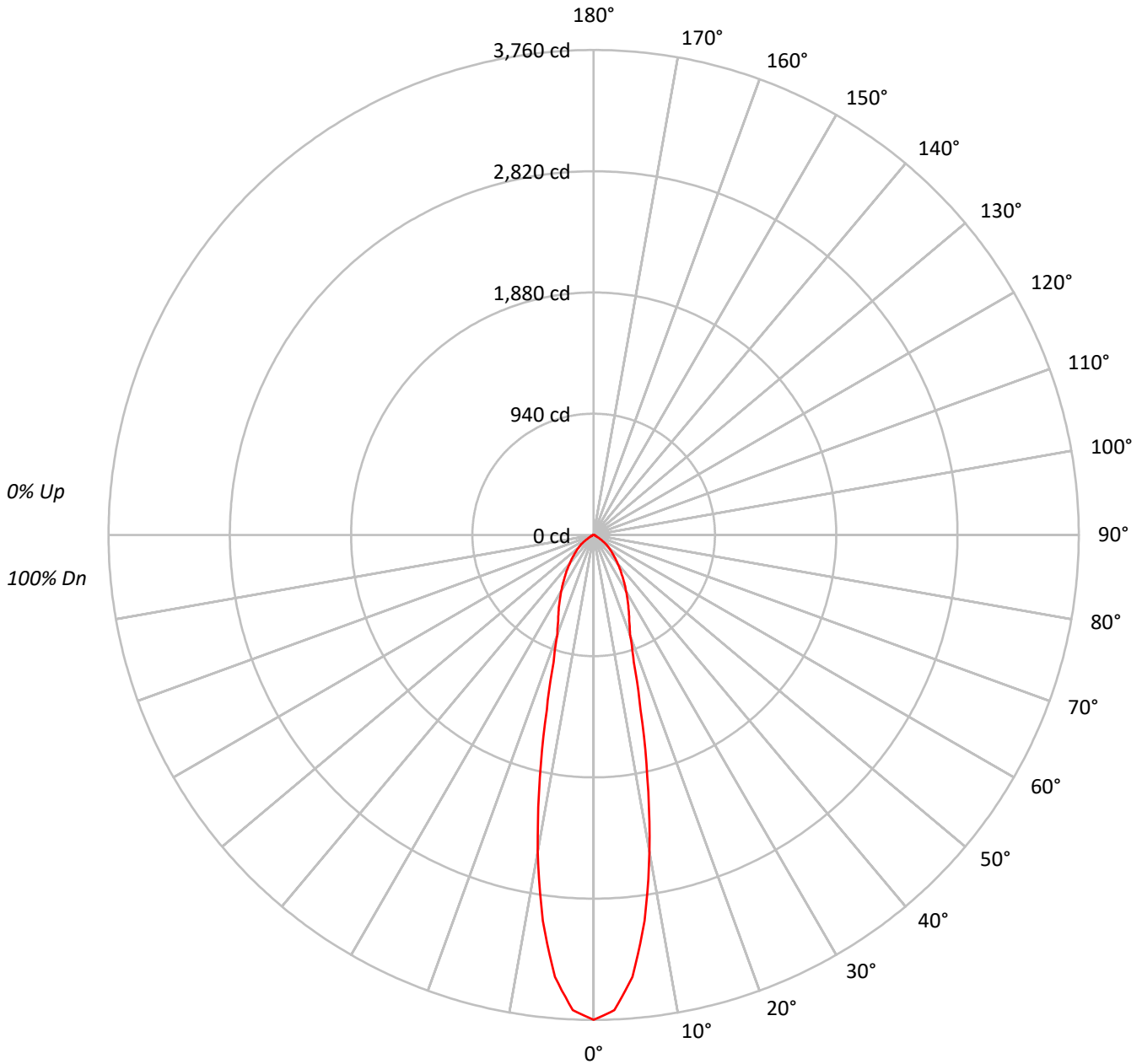
Input Watts (W): 16.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	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	85	91	87	84	89	85	83	87	84	81	80																			
4	97	89	83	79	95	88	83	79	86	81	78	84	80	77	82	78	76	74																			
5	92	83	77	73	90	82	77	73	81	76	72	79	75	71	77	74	71	69																			
6	87	78	72	68	86	78	72	68	76	71	67	75	70	67	73	70	67	65																			
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61																			
8	80	70	64	60	78	70	64	60	69	63	60	68	63	60	67	62	59	58																			
9	76	67	61	57	75	66	61	57	65	60	57	64	60	57	64	59	56	55																			
10	73	64	58	54	72	63	58	54	62	57	54	62	57	54	61	57	54	52																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	206096
5°	189307
10°	138769
15°	79728
20°	48094
25°	38815
30°	31790
35°	25765
40°	20667
45°	16436
50°	12972
55°	9070
60°	3980
65°	2348
70°	1795
75°	1483
80°	1326
85°	1761

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16436 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.5	19.6
10°-20°	401.9	26.5
20°-30°	295.9	19.5
30°-40°	241.8	15.9
40°-50°	165.2	10.9
50°-60°	84.2	5.6
60°-70°	19.9	1.3
70°-80°	7.6	0.5
80°-90°	2.9	0.2
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°	995.3	65.6
0°-40°	1237.1	81.6
0°-60°	1486.6	98.0
0°-90°	1516.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1516.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3760	
5°	3440	297
15°	1405	402
25°	642	296
35°	385	242
45°	212	165
55°	95	84
65°	18	20
75°	7	8
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3759.5
2.5°	3688.4
5°	3440.1
7.5°	3018.8
10°	2492.9
12.5°	1923.7
15°	1404.8
17.5°	1033.7
20°	824.4
22.5°	719.8
25°	641.7
27.5°	569.2
30°	502.2
32.5°	440.8
35°	385.0
37.5°	334.8
40°	288.8
42.5°	248.3
45°	212.0
47.5°	180.0
50°	152.1
52.5°	126.9
55°	94.9
57.5°	64.2
60°	36.3
62.5°	23.7
65°	18.1
67.5°	15.3
70°	11.2
72.5°	8.4
75°	7.0
77.5°	5.6
80°	4.2
82.5°	4.2
85°	2.8
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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