

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: P641223

Luminaire Tested: ML5612LSNFL2597FS1E - 696WB - 600LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641223
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 - 600LM - 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: 976.7 lumens
Efficiency: N/A
Efficacy: 94.8 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

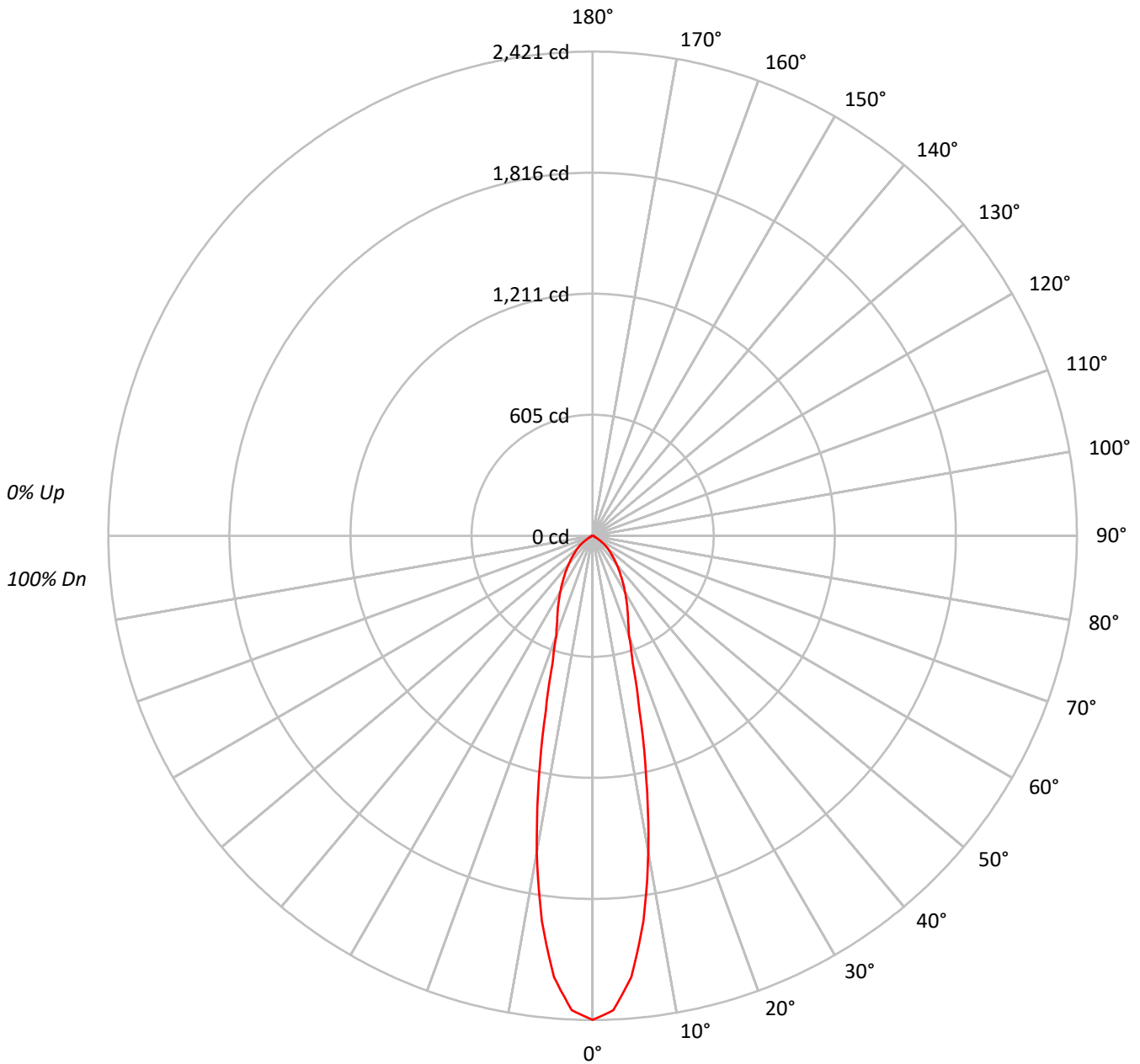
Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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	100	100	100
1	113	110	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93	93	93	93
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86	86	86	86
3	102	95	90	86	100	94	89	85	91	87	84	89	85	83	87	84	81	80	80	80	80
4	97	89	83	79	95	88	83	79	86	81	78	84	80	77	82	78	76	74	74	74	74
5	92	83	77	73	90	82	77	73	81	76	72	79	75	71	77	74	71	69	69	69	69
6	87	78	72	68	86	78	72	68	76	71	67	75	70	67	73	70	67	65	65	65	65
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61	61	61	61
8	80	70	64	60	78	70	64	60	69	63	60	68	63	60	67	62	59	58	58	58	58
9	76	67	61	57	75	66	61	57	65	60	57	64	60	57	64	59	56	55	55	55	55
10	73	64	58	54	72	63	58	54	62	57	54	62	57	54	61	57	54	52	52	52	52

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	132703
5°	121891
10°	89349
15°	51334
20°	30966
25°	24993
30°	20472
35°	16590
40°	13303
45°	10582
50°	8349
55°	5840
60°	2566
65°	1518
70°	1154
75°	953
80°	852
85°	1132

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10582 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.5	19.6
10°-20°	258.8	26.5
20°-30°	190.5	19.5
30°-40°	155.7	15.9
40°-50°	106.4	10.9
50°-60°	54.2	5.6
60°-70°	12.9	1.3
70°-80°	4.9	0.5
80°-90°	1.8	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°	640.9	65.6
0°-40°	796.6	81.6
0°-60°	957.2	98.0
0°-90°	976.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	976.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2421	
5°	2215	192
15°	904	259
25°	413	191
35°	248	156
45°	136	106
55°	61	54
65°	12	13
75°	4	5
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2420.7
2.5°	2374.8
5°	2215.0
7.5°	1943.7
10°	1605.1
12.5°	1238.6
15°	904.5
17.5°	665.6
20°	530.8
22.5°	463.5
25°	413.2
27.5°	366.5
30°	323.4
32.5°	283.8
35°	247.9
37.5°	215.6
40°	185.9
42.5°	159.9
45°	136.5
47.5°	115.9
50°	97.9
52.5°	81.7
55°	61.1
57.5°	41.3
60°	23.4
62.5°	15.3
65°	11.7
67.5°	9.9
70°	7.2
72.5°	5.4
75°	4.5
77.5°	3.6
80°	2.7
82.5°	2.7
85°	1.8
87.5°	0.9
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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(END OF REPORT)