

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: P641211

Luminaire Tested: ML5612LSNFL2597FS1E - 694WB - 900LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641211
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSNFL2597FS1E - 694WB - 900LM - 2700K
Description: ML56 RR, 25D TIR OPTIC, 6" WHITE GIMBAL TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1194.7 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.43
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

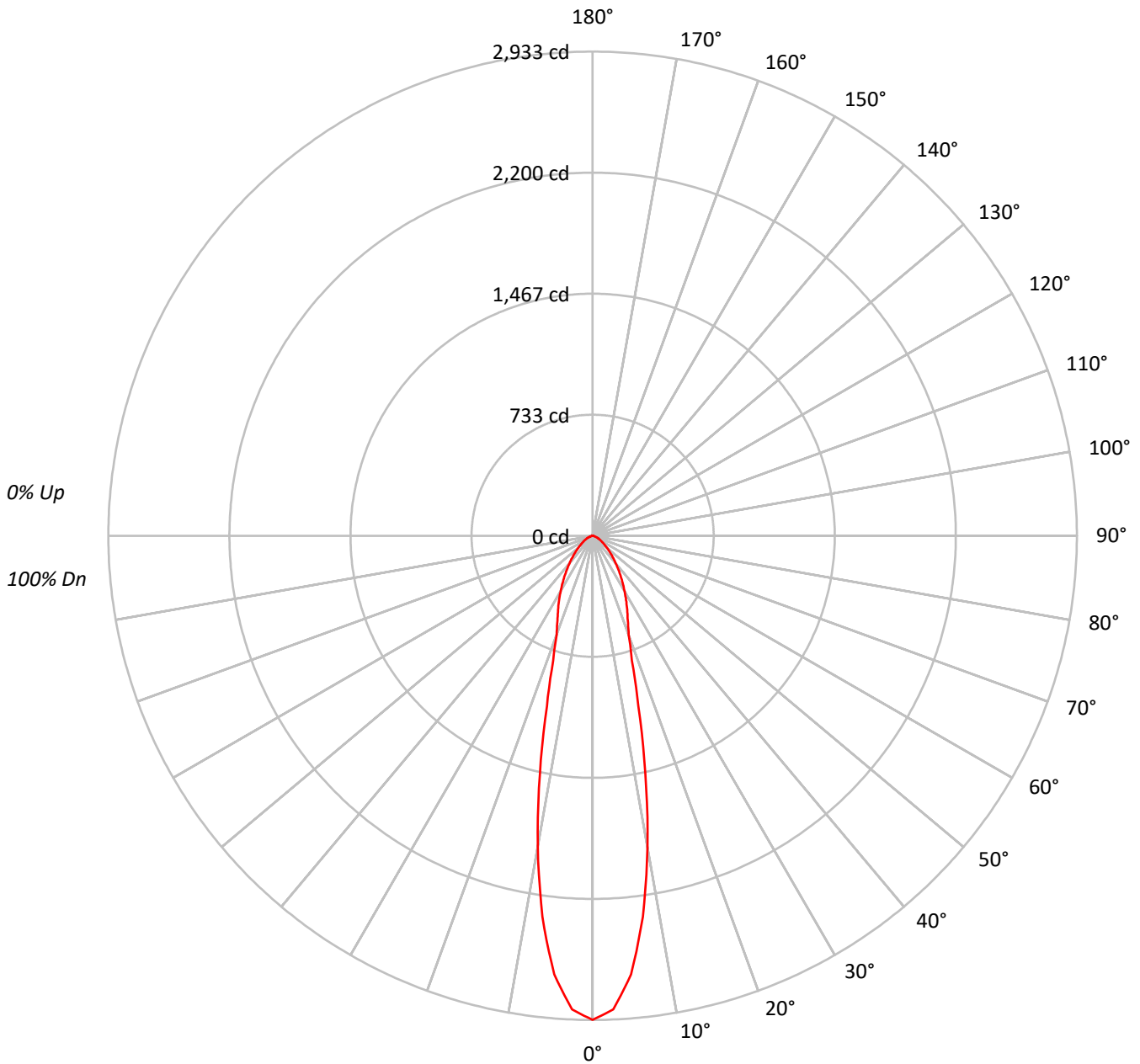
Input Watts (W): 13.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	100	100	100
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92	92	92	92
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85	85	85	85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78	78	78	78
4	96	88	82	78	94	87	81	77	85	80	76	82	78	75	81	77	74	73	73	73	73
5	91	82	76	72	89	81	76	71	79	74	71	78	73	70	76	72	69	68	68	68	68
6	87	77	71	67	85	77	71	66	75	70	66	74	69	66	72	68	65	64	64	64	64
7	82	73	67	62	81	72	66	62	71	66	62	70	65	62	69	64	61	60	60	60	60
8	79	69	63	59	77	69	63	59	67	62	58	66	62	58	65	61	58	57	57	57	57
9	75	66	60	56	74	65	60	56	64	59	55	63	59	55	62	58	55	54	54	54	54
10	72	63	57	53	71	62	57	53	61	56	53	61	56	53	60	56	52	51	51	51	51

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	160766
5°	146797
10°	106544
15°	60659
20°	37156
25°	29947
30°	24440
35°	19635
40°	15529
45°	12257
50°	9578
55°	7503
60°	5975
65°	4812
70°	3494
75°	1843
80°	1389
85°	692

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12257 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.0	19.3
10°-20°	307.8	25.8
20°-30°	228.1	19.1
30°-40°	184.2	15.4
40°-50°	123.2	10.3
50°-60°	71.5	6.0
60°-70°	37.4	3.1
70°-80°	10.9	0.9
80°-90°	1.5	0.1
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°	765.9	64.1
0°-40°	950.1	79.5
0°-60°	1144.9	95.8
0°-90°	1194.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1194.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2933	
5°	2668	230
15°	1069	308
25°	495	228
35°	293	184
45°	158	123
55°	78	72
65°	37	37
75°	9	11
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2932.6
2.5°	2871.5
5°	2667.6
7.5°	2327.3
10°	1914.0
12.5°	1474.5
15°	1068.8
17.5°	791.8
20°	636.9
22.5°	555.1
25°	495.1
27.5°	438.4
30°	386.1
32.5°	338.1
35°	293.4
37.5°	253.0
40°	217.0
42.5°	186.5
45°	158.1
47.5°	133.1
50°	112.3
52.5°	93.8
55°	78.5
57.5°	65.4
60°	54.5
62.5°	45.8
65°	37.1
67.5°	30.5
70°	21.8
72.5°	14.2
75°	8.7
77.5°	5.5
80°	4.4
82.5°	2.2
85°	1.1
87.5°	0.0
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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