

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: P641050

Luminaire Tested: ML5612LSNFL2597FS1E - 594WB - 900LM - 5000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641050
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSNFL2597FS1E - 594WB - 900LM - 5000K
Description: ML56 RR, 25D TIR OPTIC, 5" WHITE GIMBAL TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

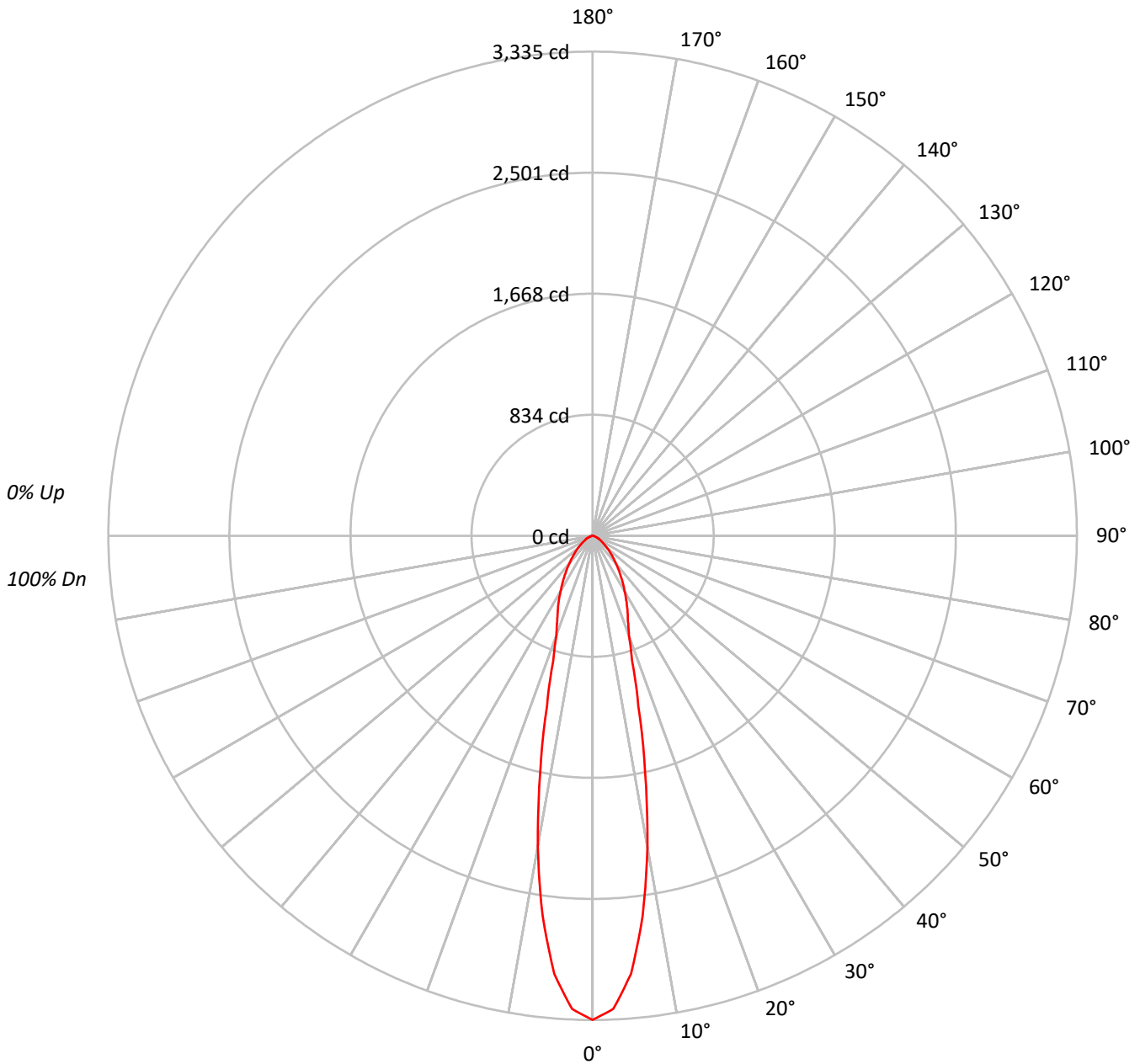
Lumens per Lamp: N/A
Luminaire Lumens: 1366.1 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.44
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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									
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	107	105	111	108	105	103	104	102	100	100	98	97	97	95	94	92				92															
2	107	102	97	94	105	100	96	93	97	93	90	94	91	89	91	89	87	85				85															
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78				78															
4	96	88	82	77	94	87	81	77	84	80	76	82	78	75	80	77	74	73				73															
5	91	82	76	72	89	81	75	71	79	74	71	78	73	70	76	72	69	68				68															
6	86	77	71	67	85	76	71	66	75	70	66	73	69	65	72	68	65	63				63															
7	82	73	67	62	81	72	66	62	71	66	62	70	65	61	68	64	61	60				60															
8	79	69	63	59	77	68	63	59	67	62	58	66	62	58	65	61	58	56				56															
9	75	66	60	56	74	65	59	55	64	59	55	63	58	55	62	58	55	54				54															
10	72	62	57	53	71	62	56	53	61	56	53	60	56	52	60	55	52	51				51															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	263244
5°	239954
10°	174089
15°	99395
20°	61409
25°	49404
30°	40271
35°	32409
40°	25835
45°	20363
50°	15855
55°	12469
60°	9994
65°	8107
70°	5724
75°	3020
80°	2273
85°	1087

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 20363 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.1	19.1
10°-20°	350.1	25.6
20°-30°	261.4	19.1
30°-40°	211.5	15.5
40°-50°	142.2	10.4
50°-60°	82.5	6.0
60°-70°	43.3	3.2
70°-80°	12.4	0.9
80°-90°	1.7	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°	872.5	63.9
0°-40°	1084.0	79.3
0°-60°	1308.7	95.8
0°-90°	1366.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1366.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3335	
5°	3028	261
15°	1216	350
25°	567	261
35°	336	211
45°	182	142
55°	91	83
65°	43	43
75°	10	12
85°	1	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3334.7
2.5°	3262.7
5°	3028.1
7.5°	2640.9
10°	2171.8
12.5°	1668.0
15°	1216.2
17.5°	904.7
20°	731.0
22.5°	635.4
25°	567.2
27.5°	502.6
30°	441.8
32.5°	387.2
35°	336.3
37.5°	291.6
40°	250.7
42.5°	214.7
45°	182.4
47.5°	153.9
50°	129.1
52.5°	108.0
55°	90.6
57.5°	75.7
60°	63.3
62.5°	52.1
65°	43.4
67.5°	36.0
70°	24.8
72.5°	16.1
75°	9.9
77.5°	6.2
80°	5.0
82.5°	2.5
85°	1.2
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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