

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: P641394

Luminaire Tested: ML5612LSVWFL7597FS1E - 594WB - 900LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641394
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-78)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSVWFL7597FS1E - 594WB - 900LM - 4000K
Description: ML56 RR, 75D TIR OPTIC, 5" WHITE GIMBAL TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1364.4 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.09
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

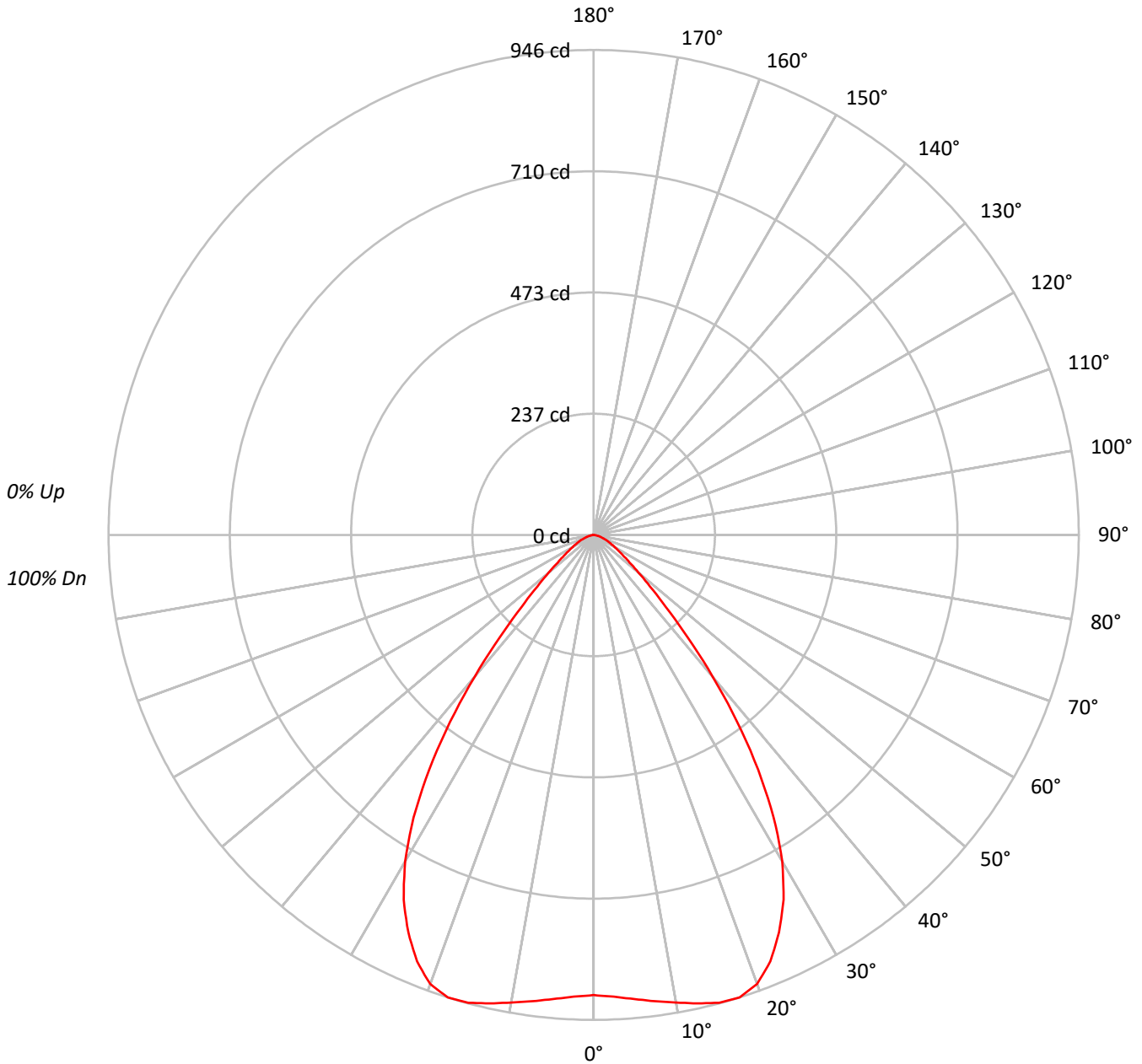
Input Watts (W): 13.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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				
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91				
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	84	83				
3	99	92	86	81	97	90	85	80	87	83	79	85	81	78	83	79	77	75				
4	93	84	78	73	91	83	77	72	81	76	71	79	74	71	77	73	70	68				
5	87	78	71	66	86	77	70	66	75	69	65	73	68	64	71	67	64	62				
6	82	72	65	60	81	71	64	60	69	64	59	68	63	59	67	62	58	57				
7	77	67	60	55	76	66	59	55	65	59	54	63	58	54	62	57	54	52				
8	73	62	55	50	72	61	55	50	60	54	50	59	54	50	58	53	50	48				
9	69	58	51	47	68	57	51	46	56	50	46	55	50	46	54	50	46	44				
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43	41				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	70857
5°	72016
10°	74235
15°	77206
20°	78320
25°	74507
30°	67016
35°	53880
40°	37180
45°	22149
50°	14013
55°	9730
60°	7436
65°	6015
70°	4870
75°	3782
80°	2273
85°	1087

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 22149 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.3	6.4
10°-20°	266.3	19.5
20°-30°	389.8	28.6
30°-40°	344.1	25.2
40°-50°	163.2	12.0
50°-60°	65.9	4.8
60°-70°	32.9	2.4
70°-80°	13.2	1.0
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°	743.4	54.5
0°-40°	1087.5	79.7
0°-60°	1316.5	96.5
0°-90°	1364.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1364.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	898	
5°	909	87
15°	945	266
25°	855	390
35°	559	344
45°	198	163
55°	71	66
65°	32	33
75°	12	13
85°	1	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	897.6
2.5°	901.3
5°	908.8
7.5°	917.4
10°	926.1
12.5°	936.0
15°	944.7
17.5°	945.9
20°	932.3
22.5°	900.1
25°	855.4
27.5°	802.1
30°	735.2
32.5°	653.4
35°	559.1
37.5°	460.0
40°	360.8
42.5°	271.5
45°	198.4
47.5°	148.8
50°	114.1
52.5°	88.0
55°	70.7
57.5°	57.0
60°	47.1
62.5°	39.7
65°	32.2
67.5°	27.3
70°	21.1
72.5°	16.1
75°	12.4
77.5°	8.7
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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(END OF REPORT)