

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: P641898

Luminaire Tested: ML5612LSVWFL97FS1E - 694WB - 600LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641898
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-113)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSVWFL97FS1E - 694WB - 600LM - 3500K
Description: ML56 RR, MILKY OPTIC, 6" WHITE GIMBAL TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

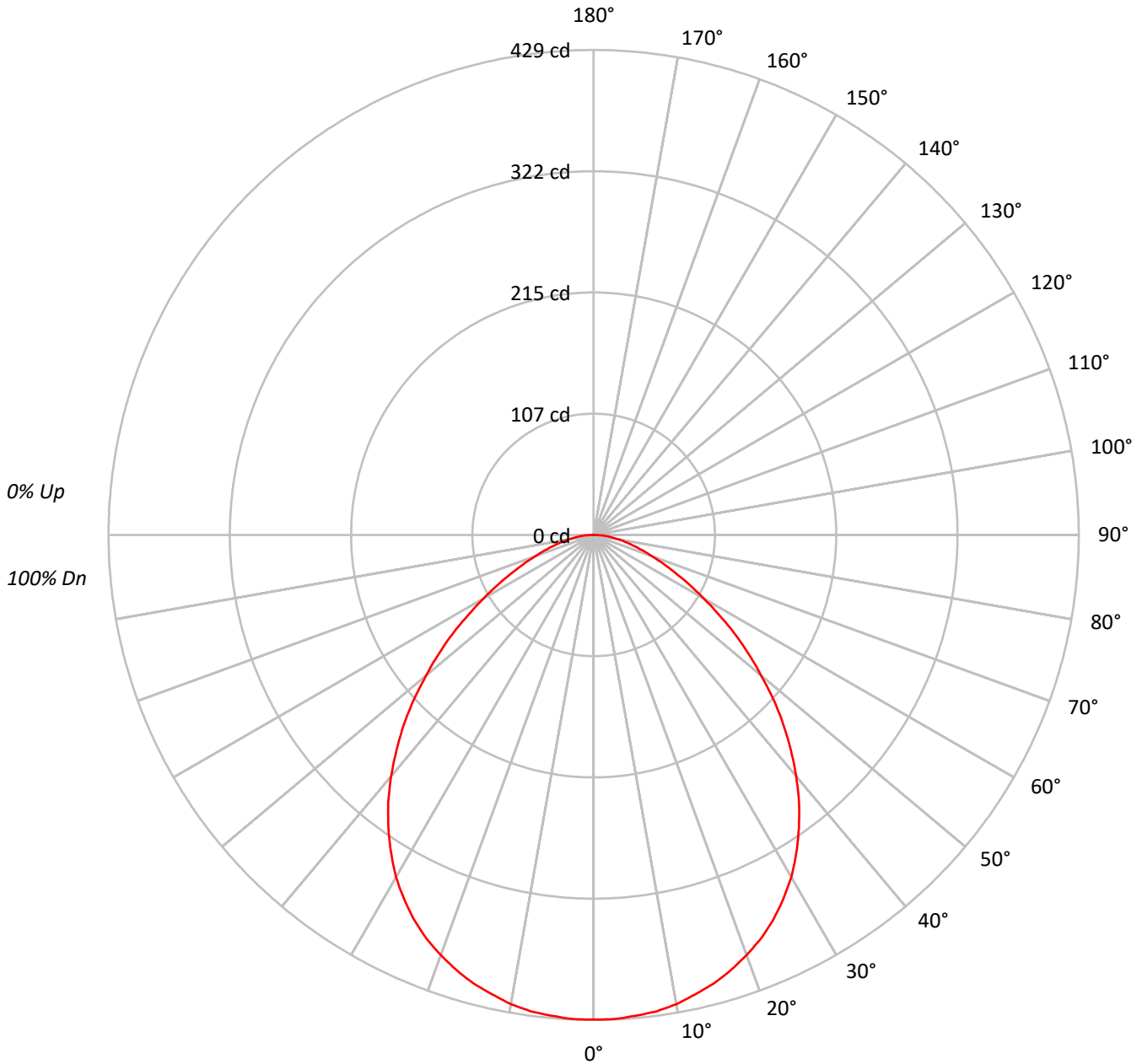
Lumens per Lamp: N/A
Luminaire Lumens: 975.8 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.28
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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			
1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86			
2	101	94	88	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74			
3	93	83	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64			
4	86	75	67	61	84	73	66	60	71	64	59	69	63	59	67	62	58	56			
5	79	67	59	53	77	66	58	53	64	57	52	62	56	51	61	55	51	49			
6	74	61	53	47	72	60	52	46	58	51	46	57	51	46	55	50	45	43			
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39			
8	64	51	43	37	62	50	43	37	49	42	37	48	42	37	47	41	37	35			
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32			
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	23501
5°	23492
10°	23463
15°	23315
20°	23073
25°	22725
30°	22130
35°	21174
40°	19937
45°	18397
50°	16477
55°	14518
60°	12313
65°	10377
70°	8784
75°	7625
80°	6819
85°	6793

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 18397 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.6	4.2
10°-20°	115.8	11.9
20°-30°	172.7	17.7
30°-40°	197.4	20.2
40°-50°	182.4	18.7
50°-60°	135.8	13.9
60°-70°	80.4	8.2
70°-80°	39.0	4.0
80°-90°	11.8	1.2
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°	329.1	33.7
0°-40°	526.5	54.0
0°-60°	844.7	86.6
0°-90°	975.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	975.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	429	
5°	427	41
15°	411	116
25°	376	173
35°	316	197
45°	237	182
55°	152	136
65°	80	80
75°	36	39
85°	11	12
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	428.7
2.5°	428.7
5°	426.9
7.5°	425.1
10°	421.5
12.5°	416.1
15°	410.8
17.5°	403.6
20°	395.5
22.5°	386.5
25°	375.7
27.5°	363.1
30°	349.6
32.5°	333.5
35°	316.4
37.5°	298.4
40°	278.6
42.5°	258.0
45°	237.3
47.5°	215.7
50°	193.2
52.5°	172.6
55°	151.9
57.5°	131.2
60°	112.3
62.5°	95.3
65°	80.0
67.5°	66.5
70°	54.8
72.5°	44.9
75°	36.0
77.5°	28.8
80°	21.6
82.5°	15.3
85°	10.8
87.5°	6.3
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)