

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: P641814

Luminaire Tested: ML5612LSVWFL97FS1E - 692W - 900LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641814
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-108)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSVWFL97FS1E - 692W - 900LM - 4000K
Description: ML56 RR, MILKY OPTIC, 6" WHITE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

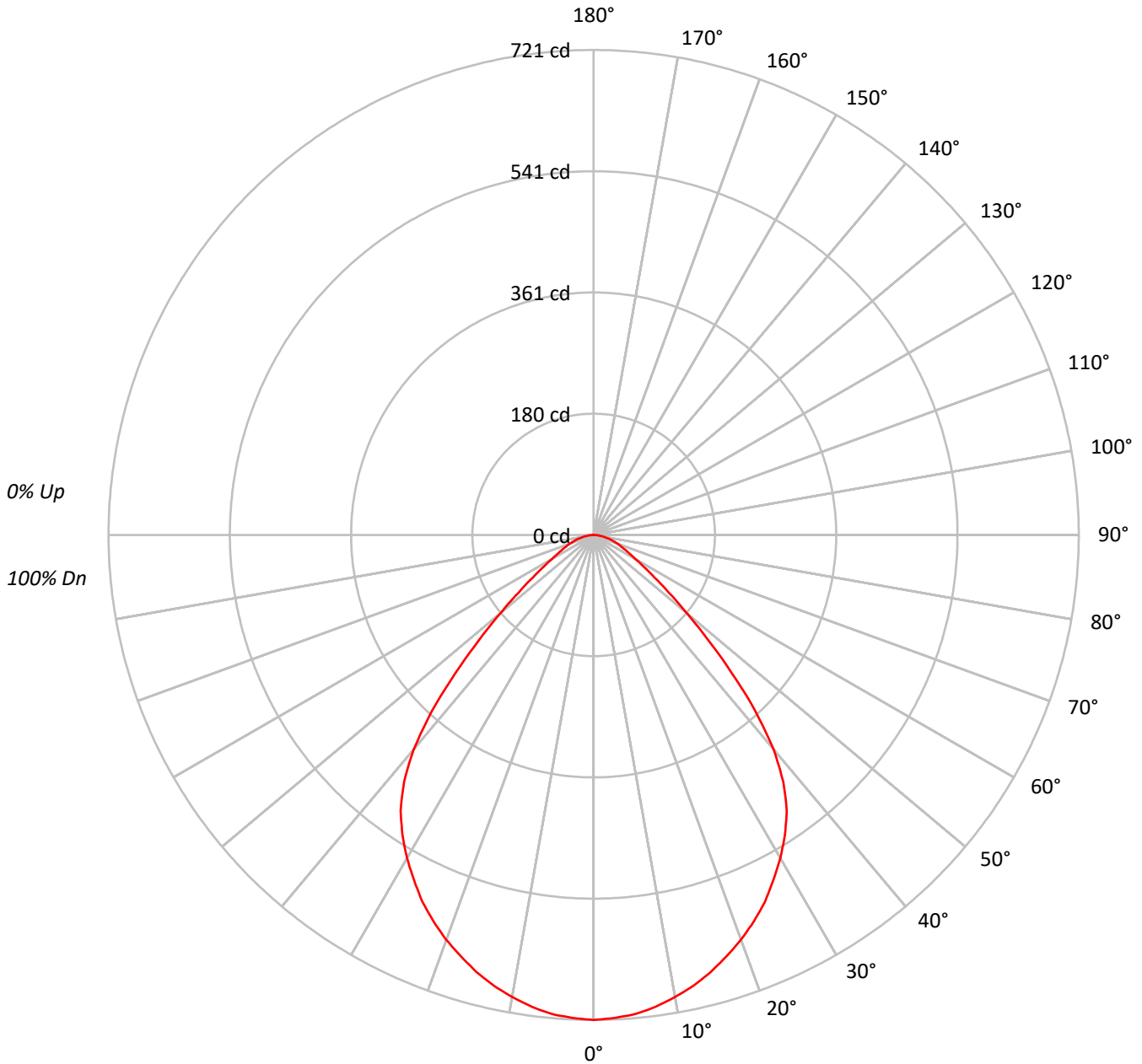
Lumens per Lamp: N/A
Luminaire Lumens: 1256.4 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.2
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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									
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																			
1	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89																			
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79																			
3	96	88	81	76	94	87	80	76	84	79	74	81	77	73	79	75	72	70																			
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63																			
5	84	73	65	60	82	72	65	60	70	64	59	68	63	58	66	62	58	56																			
6	78	67	59	54	76	66	59	54	64	58	53	63	57	53	61	56	52	50																			
7	73	61	54	49	72	61	53	48	59	53	48	58	52	48	57	51	47	46																			
8	69	57	49	44	67	56	49	44	55	48	44	54	48	44	53	47	43	42																			
9	64	52	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38																			
10	61	49	42	37	59	48	42	37	47	41	37	47	41	37	46	40	37	35																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	39536
5°	39346
10°	38833
15°	38184
20°	37366
25°	36413
30°	35119
35°	33475
40°	29756
45°	22522
50°	15351
55°	10561
60°	7894
65°	6603
70°	5963
75°	5528
80°	4704
85°	3900

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 22522 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.7	5.4
10°-20°	189.4	15.1
20°-30°	276.5	22.0
30°-40°	308.9	24.6
40°-50°	224.8	17.9
50°-60°	103.4	8.2
60°-70°	51.5	4.1
70°-80°	27.2	2.2
80°-90°	7.1	0.6
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°	533.7	42.5
0°-40°	842.5	67.1
0°-60°	1170.7	93.2
0°-90°	1256.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1256.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	721	
5°	715	68
15°	673	189
25°	602	277
35°	500	309
45°	290	225
55°	110	103
65°	51	52
75°	26	27
85°	6	7
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	721.2
2.5°	718.7
5°	715.0
7.5°	707.5
10°	697.6
12.5°	686.4
15°	672.8
17.5°	656.6
20°	640.5
22.5°	621.9
25°	602.0
27.5°	578.4
30°	554.8
32.5°	528.8
35°	500.2
37.5°	463.0
40°	415.8
42.5°	356.2
45°	290.5
47.5°	229.6
50°	180.0
52.5°	140.3
55°	110.5
57.5°	88.1
60°	72.0
62.5°	59.6
65°	50.9
67.5°	43.4
70°	37.2
72.5°	31.0
75°	26.1
77.5°	19.9
80°	14.9
82.5°	9.9
85°	6.2
87.5°	2.5
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)