

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: P641804

Luminaire Tested: ML5612LSVWFL97FS1E - 692W - 1200LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641804
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 - 1200LM - 4000K
Description: ML56 RR, MILKY OPTIC, 6" WHITE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

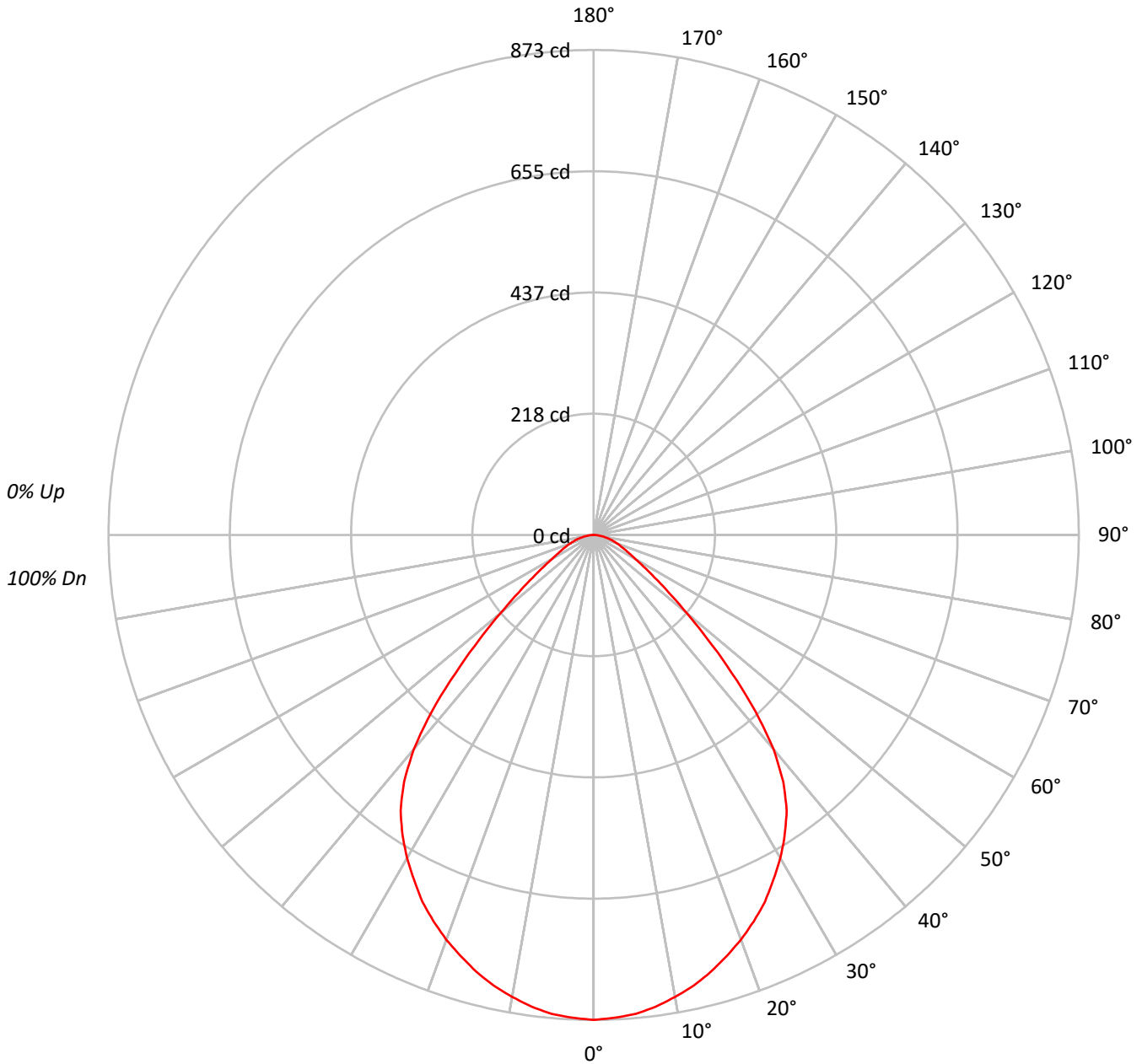
Lumens per Lamp: N/A
Luminaire Lumens: 1521.0 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.2
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 16.5
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			100																
1	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89			89																
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79			79																
3	96	88	81	76	94	87	80	76	84	79	74	81	77	73	79	75	72	70			70																
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63			63																
5	84	73	65	60	82	72	65	60	70	64	59	68	63	58	66	62	58	56			56																
6	78	67	59	54	76	66	59	54	64	58	53	63	57	53	61	56	52	50			50																
7	73	61	54	49	72	61	53	48	59	53	48	58	52	48	57	51	47	46			46																
8	69	57	49	44	67	56	49	44	55	48	44	54	48	44	53	47	43	42			42																
9	64	52	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38			38																
10	61	49	42	37	59	48	42	37	47	41	37	47	41	37	46	40	37	35			35																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	47858
5°	47628
10°	47010
15°	46220
20°	45230
25°	44083
30°	42519
35°	40522
40°	36025
45°	27259
50°	18584
55°	12779
60°	9561
65°	7990
70°	7229
75°	6693
80°	5683
85°	4717

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 27259 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.9	5.4
10°-20°	229.3	15.1
20°-30°	334.8	22.0
30°-40°	373.9	24.6
40°-50°	272.1	17.9
50°-60°	125.1	8.2
60°-70°	62.4	4.1
70°-80°	32.9	2.2
80°-90°	8.6	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°	646.0	42.5
0°-40°	1019.9	67.1
0°-60°	1417.1	93.2
0°-90°	1521.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1521.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	873	
5°	866	82
15°	814	229
25°	729	335
35°	606	374
45°	352	272
55°	134	125
65°	62	62
75°	32	33
85°	8	9
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	873.0
2.5°	870.0
5°	865.5
7.5°	856.5
10°	844.5
12.5°	830.9
15°	814.4
17.5°	794.9
20°	775.3
22.5°	752.8
25°	728.8
27.5°	700.2
30°	671.7
32.5°	640.1
35°	605.5
37.5°	560.5
40°	503.4
42.5°	431.2
45°	351.6
47.5°	278.0
50°	217.9
52.5°	169.8
55°	133.7
57.5°	106.7
60°	87.2
62.5°	72.1
65°	61.6
67.5°	52.6
70°	45.1
72.5°	37.6
75°	31.6
77.5°	24.0
80°	18.0
82.5°	12.0
85°	7.5
87.5°	3.0
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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