

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: P641626

Luminaire Tested: ML5612LSVWFL97FS1E - 592W - 600LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641626
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-96)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSVWFL97FS1E - 592W - 600LM - 2700K
Description: ML56 RR, MILKY OPTIC, 5" WHITE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 829.1 lumens
Efficiency: N/A
Efficacy: 80.5 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

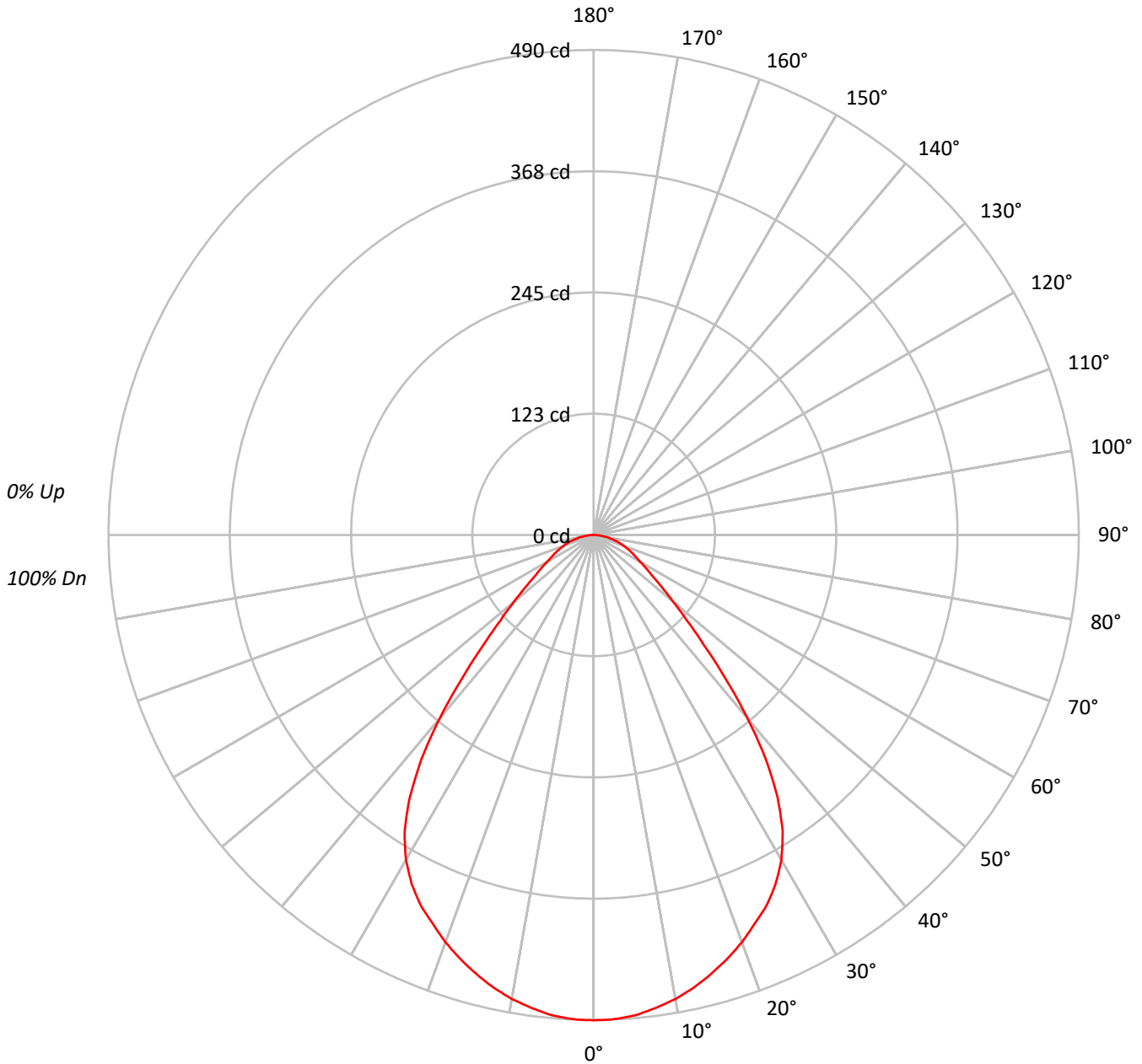
Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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			100
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89			89
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78			78
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	71	70			70
4	90	80	72	67	87	78	72	66	76	70	66	74	69	65	72	68	64	62			62
5	84	73	65	60	82	72	65	59	70	64	59	68	62	58	66	61	58	56			56
6	78	67	59	54	76	66	59	53	64	58	53	63	57	53	61	56	52	50			50
7	73	61	54	49	72	61	54	48	59	53	48	58	52	48	57	52	48	46			46
8	69	57	49	44	67	56	49	44	55	49	44	54	48	44	53	47	44	42			42
9	65	53	45	41	63	52	45	41	51	45	40	50	44	40	49	44	40	38			38
10	61	49	42	37	60	49	42	37	48	41	37	47	41	37	46	41	37	35			35

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	26889
5°	26805
10°	26503
15°	26056
20°	25541
25°	24993
30°	24004
35°	21676
40°	17275
45°	12257
50°	8921
55°	6910
60°	5964
65°	5513
70°	5177
75°	4872
80°	4293
85°	3208

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12257 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.1	5.6
10°-20°	129.4	15.6
20°-30°	189.5	22.9
30°-40°	198.6	24.0
40°-50°	125.5	15.1
50°-60°	67.2	8.1
60°-70°	42.3	5.1
70°-80°	24.2	2.9
80°-90°	6.3	0.8
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°	365.0	44.0
0°-40°	563.6	68.0
0°-60°	756.3	91.2
0°-90°	829.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	829.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	490	
5°	487	46
15°	459	129
25°	413	190
35°	324	199
45°	158	126
55°	72	67
65°	42	42
75°	23	24
85°	5	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	490.5
2.5°	489.7
5°	487.1
7.5°	482.0
10°	476.1
12.5°	468.4
15°	459.1
17.5°	448.9
20°	437.8
22.5°	425.1
25°	413.2
27.5°	397.9
30°	379.2
32.5°	355.4
35°	323.9
37.5°	285.7
40°	241.4
42.5°	197.2
45°	158.1
47.5°	127.5
50°	104.6
52.5°	86.7
55°	72.3
57.5°	62.9
60°	54.4
62.5°	47.6
65°	42.5
67.5°	37.4
70°	32.3
72.5°	28.1
75°	23.0
77.5°	17.9
80°	13.6
82.5°	9.4
85°	5.1
87.5°	1.7
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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