

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: P643527

Luminaire Tested: ML5615LSVWFL9FS1E - 594TBZB - 1200LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643527
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-103)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSVWFL9FS1E - 594TBZB - 1200LM - 3000K
Description: ML56 RR, MILKY OPTIC, 5" TUSCON BRONZE GIMBAL TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1386.7 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.27
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

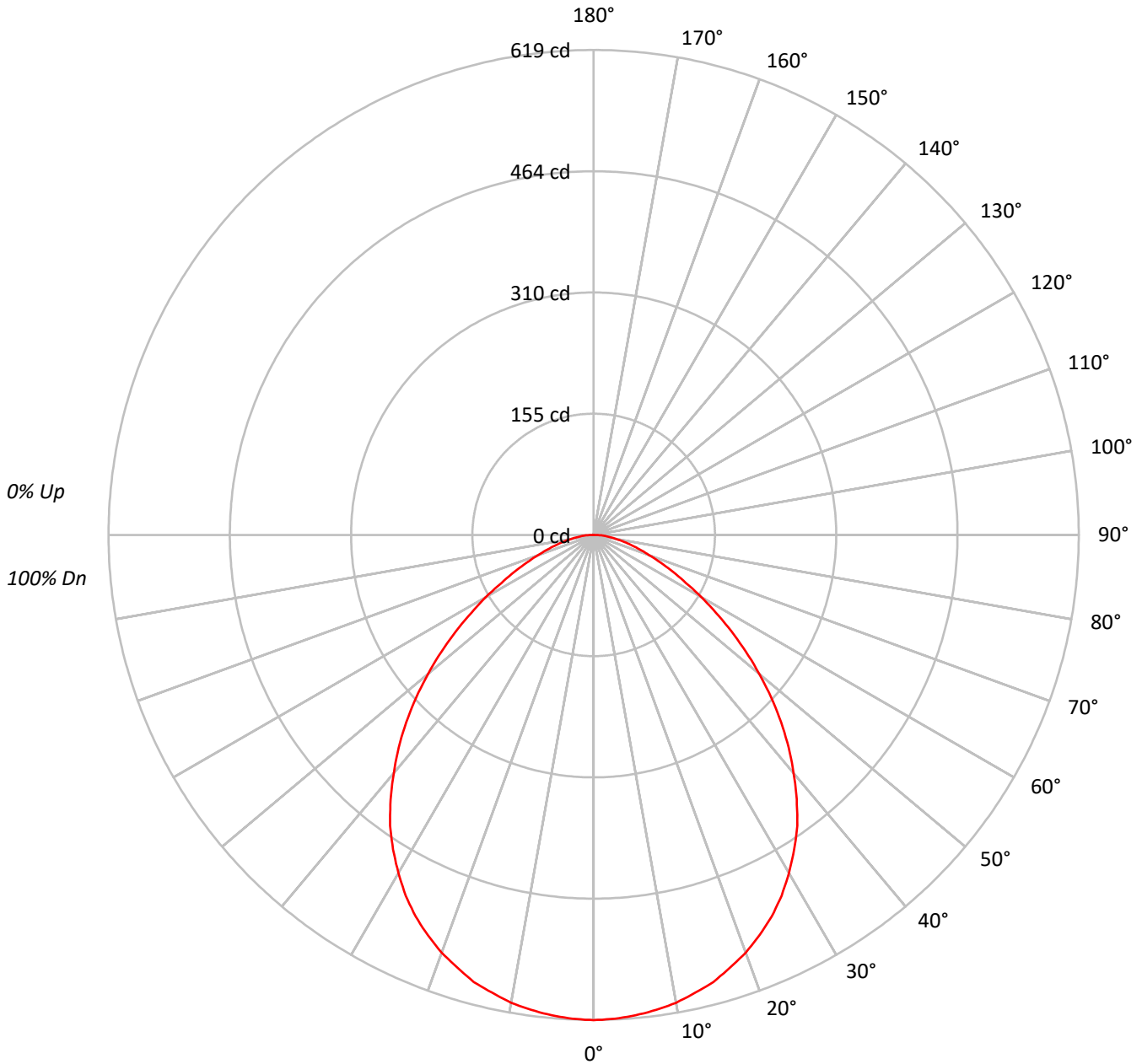
Input Watts (W): 13.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	110	106	102	99	107	104	100	97	100	97	94	96	93	91	92	90	89	87			87
2	101	94	88	83	99	92	87	82	89	84	80	85	82	78	82	79	76	74			74
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64			64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56			56
5	79	68	59	53	77	67	59	53	64	58	52	63	57	52	61	55	51	49			49
6	74	61	53	47	72	60	52	47	59	52	46	57	51	46	55	50	46	44			44
7	69	56	48	42	67	55	47	42	54	47	41	52	46	41	51	45	41	39			39
8	64	51	43	38	63	51	43	38	49	42	37	48	42	37	47	41	37	35			35
9	60	47	39	34	59	47	39	34	46	39	34	44	38	34	43	38	34	32			32
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	40	35	31	29			29

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	48896
5°	48774
10°	48600
15°	48275
20°	47657
25°	46808
30°	45422
35°	43636
40°	40901
45°	37768
50°	33871
55°	29549
60°	25056
65°	20902
70°	17426
75°	15067
80°	13002
85°	12952

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 37768 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.5	4.2
10°-20°	166.3	12.0
20°-30°	247.0	17.8
30°-40°	281.8	20.3
40°-50°	260.1	18.8
50°-60°	192.2	13.9
60°-70°	112.2	8.1
70°-80°	52.8	3.8
80°-90°	15.9	1.1
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°	471.8	34.0
0°-40°	753.6	54.3
0°-60°	1205.8	87.0
0°-90°	1386.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1386.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	619	
5°	616	58
15°	591	166
25°	537	247
35°	453	282
45°	338	260
55°	215	192
65°	112	112
75°	49	53
85°	14	16
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	619.4
2.5°	618.1
5°	615.5
7.5°	611.5
10°	606.3
12.5°	598.5
15°	590.7
17.5°	579.0
20°	567.3
22.5°	553.0
25°	537.4
27.5°	519.2
30°	498.3
32.5°	476.2
35°	452.8
37.5°	425.5
40°	396.9
42.5°	368.2
45°	338.3
47.5°	307.1
50°	275.8
52.5°	244.6
55°	214.7
57.5°	184.8
60°	158.7
62.5°	132.7
65°	111.9
67.5°	92.4
70°	75.5
72.5°	61.2
75°	49.4
77.5°	37.7
80°	28.6
82.5°	20.8
85°	14.3
87.5°	9.1
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)