

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: P643699

Luminaire Tested: ML5615LSVWFL9FS1E - 694TBZB - 1500LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643699
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-114)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSVWFL9FS1E - 694TBZB - 1500LM - 4000K
Description: ML56 RR, MILKY OPTIC, 6" TUSCON BRONZE GIMBAL TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1870.3 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.27
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

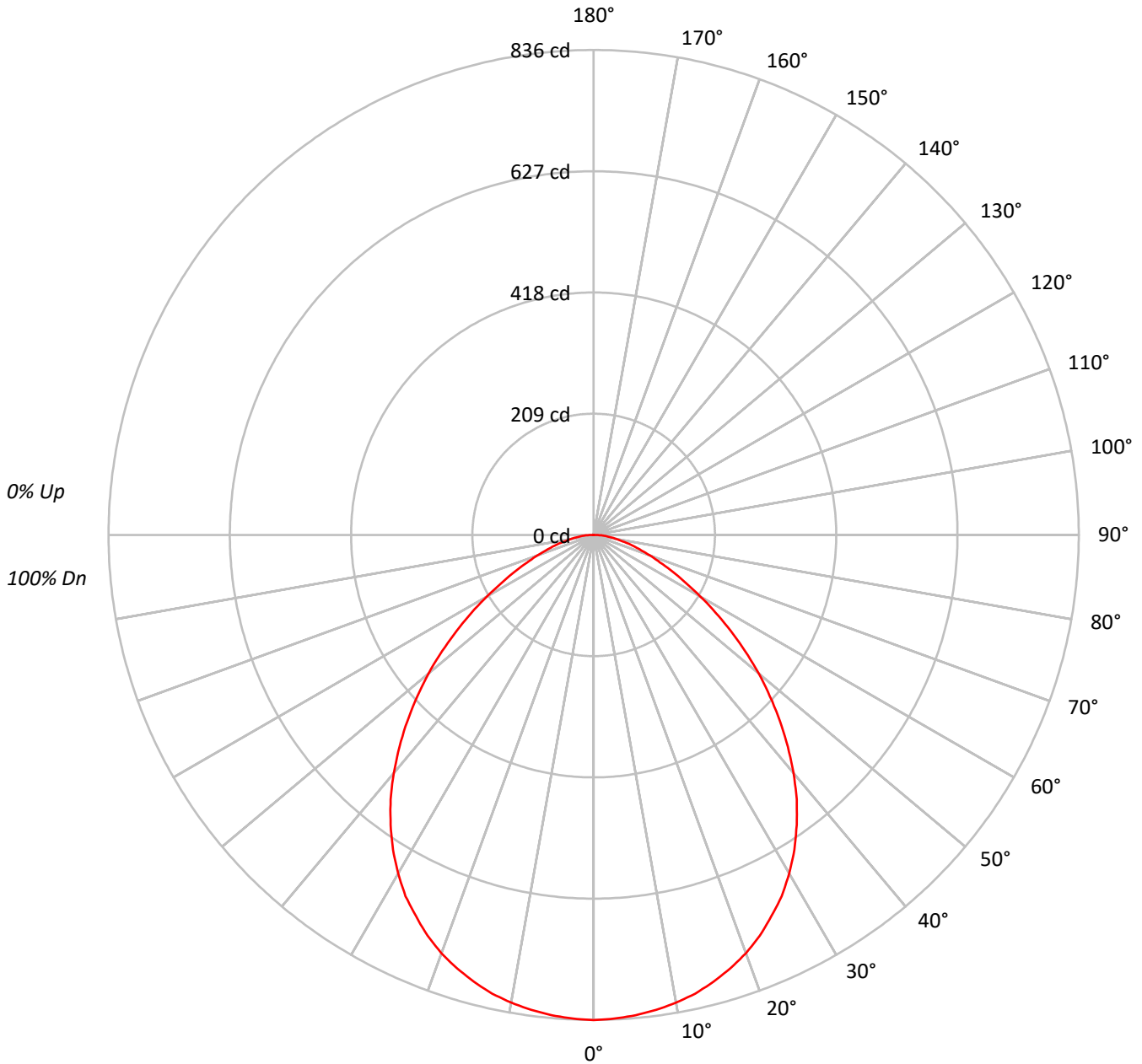
Input Watts (W): 17.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	80	68	59	53	78	67	59	53	64	58	52	63	57	52	61	56	51	49			49
6	74	61	53	47	72	60	53	47	59	52	46	57	51	46	56	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	45	38	34	44	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°	45852
5°	45735
10°	45574
15°	45261
20°	44769
25°	43853
30°	42646
35°	40823
40°	38343
45°	35228
50°	31666
55°	27545
60°	23266
65°	19496
70°	16445
75°	14234
80°	12281
85°	12265

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 35228 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.9	4.2
10°-20°	224.9	12.0
20°-30°	333.8	17.8
30°-40°	380.4	20.3
40°-50°	349.7	18.7
50°-60°	258.4	13.8
60°-70°	150.7	8.1
70°-80°	71.8	3.8
80°-90°	21.7	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°	637.6	34.1
0°-40°	1018.0	54.4
0°-60°	1626.1	86.9
0°-90°	1870.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1870.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	836	
5°	831	79
15°	798	225
25°	725	334
35°	610	380
45°	454	350
55°	288	258
65°	150	151
75°	67	72
85°	20	22
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	836.4
2.5°	834.6
5°	831.1
7.5°	825.7
10°	818.7
12.5°	809.8
15°	797.5
17.5°	783.3
20°	767.4
22.5°	747.9
25°	725.0
27.5°	702.0
30°	673.7
32.5°	643.6
35°	610.0
37.5°	574.7
40°	535.8
42.5°	495.1
45°	454.4
47.5°	412.0
50°	371.3
52.5°	328.9
55°	288.2
57.5°	249.3
60°	212.2
62.5°	178.6
65°	150.3
67.5°	123.8
70°	102.6
72.5°	83.1
75°	67.2
77.5°	51.3
80°	38.9
82.5°	28.3
85°	19.5
87.5°	12.4
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)