

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: P643663

Luminaire Tested: ML5615LSVWFL9FS1E - 693TBZB - 1200LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643663
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-112)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSVWFL9FS1E - 693TBZB - 1200LM - 3500K
Description: ML56 RR, MILKY OPTIC, 6" TUSCON BRONZE BAFFLE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1087.3 lumens
Efficiency: N/A
Efficacy: 81.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.21
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

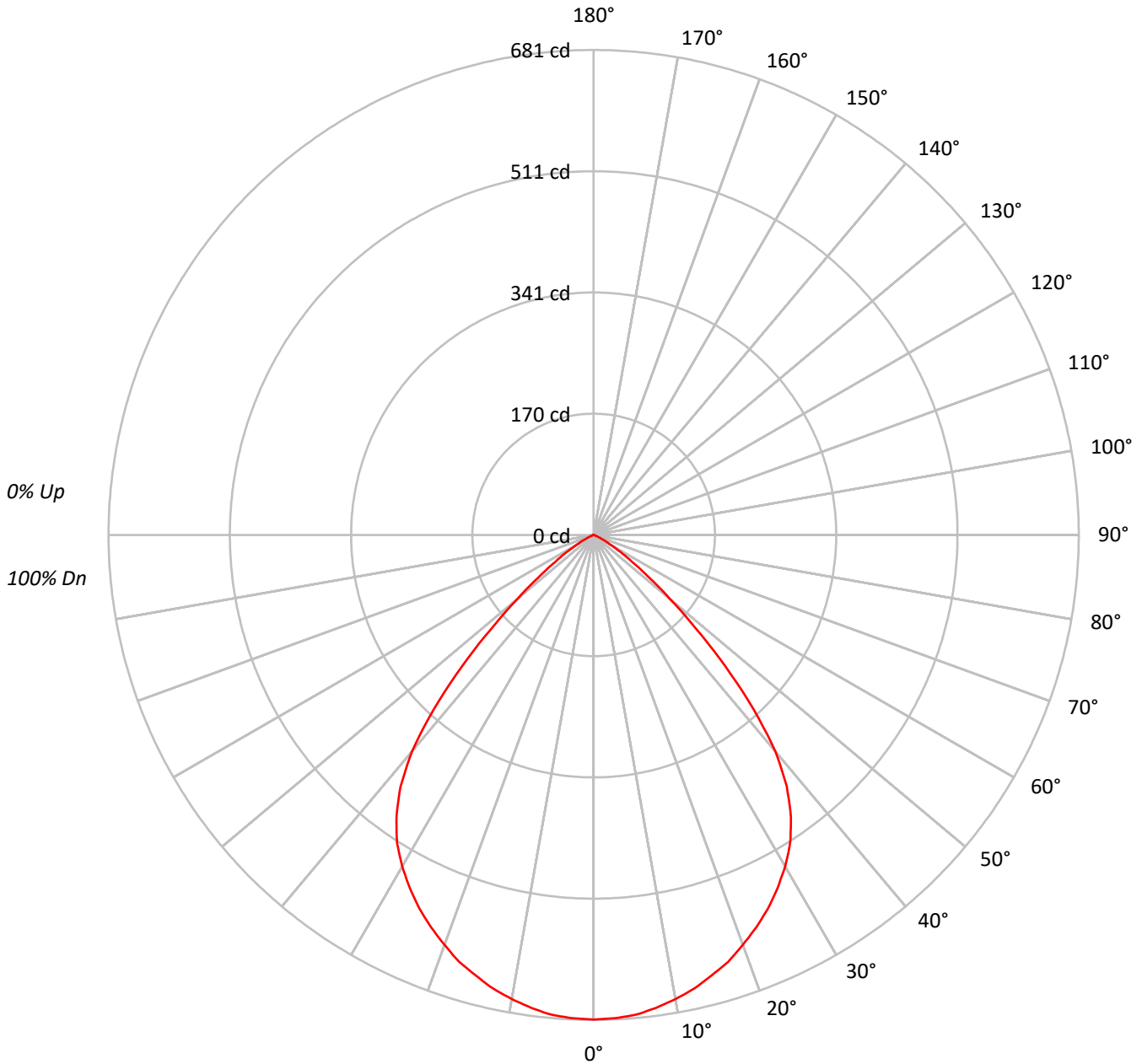
Input Watts (W): 13.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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									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	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	100	100	100	100	100	100	100	100	100																
	1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91	91	91	91	91	91	91	91	91	91	91																
	2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82	82	82	82	82	82	82	82	82	82	82																
	3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74	74	74	74	74	74	74	74	74	74	74																
	4	92	83	77	72	90	82	76	71	80	75	70	78	73	69	76	72	69	67	67	67	67	67	67	67	67	67	67	67																
	5	86	76	69	64	85	75	69	64	73	68	63	72	67	63	70	66	62	60	60	60	60	60	60	60	60	60	60	60																
	6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	56	55	55	55	55	55	55	55	55	55	55	55																
	7	76	65	58	53	74	64	57	52	63	57	52	61	56	52	60	55	52	50	50	50	50	50	50	50	50	50	50	50																
	8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46	46	46	46	46	46	46	46	46	46	46																
	9	67	56	49	44	66	55	48	44	54	48	44	53	47	43	52	47	43	42	42	42	42	42	42	42	42	42	42	42																
	10	63	52	45	40	62	51	45	40	50	44	40	50	44	40	49	44	40	38	38	38	38	38	38	38	38	38	38	38																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	37311
5°	37228
10°	36840
15°	36345
20°	35726
25°	35016
30°	34024
35°	32304
40°	28418
45°	20320
50°	11863
55°	6260
60°	2927
65°	1219
70°	433
75°	275
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 20320 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.1	5.9
10°-20°	180.6	16.6
20°-30°	266.2	24.5
30°-40°	298.0	27.4
40°-50°	202.1	18.6
50°-60°	64.1	5.9
60°-70°	10.8	1.0
70°-80°	1.4	0.1
80°-90°	0.0	0.0
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°	510.9	47.0
0°-40°	808.9	74.4
0°-60°	1075.1	98.9
0°-90°	1087.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1087.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	681	
5°	676	64
15°	640	181
25°	579	266
35°	483	298
45°	262	202
55°	66	64
65°	9	11
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	680.6
2.5°	679.2
5°	676.5
7.5°	669.9
10°	661.8
12.5°	652.5
15°	640.4
17.5°	628.4
20°	612.4
22.5°	596.3
25°	578.9
27.5°	558.9
30°	537.5
32.5°	513.4
35°	482.7
37.5°	445.2
40°	397.1
42.5°	332.9
45°	262.1
47.5°	195.2
50°	139.1
52.5°	97.6
55°	65.5
57.5°	44.1
60°	26.7
62.5°	16.0
65°	9.4
67.5°	4.0
70°	2.7
72.5°	1.3
75°	1.3
77.5°	1.3
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
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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(END OF REPORT)