

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: P643675

Luminaire Tested: ML5615LSVWFL9FS1E - 693TBZB - 900LM - 5000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643675
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 - 900LM - 5000K
Description: ML56 RR, MILKY OPTIC, 6" TUSCON BRONZE BAFFLE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

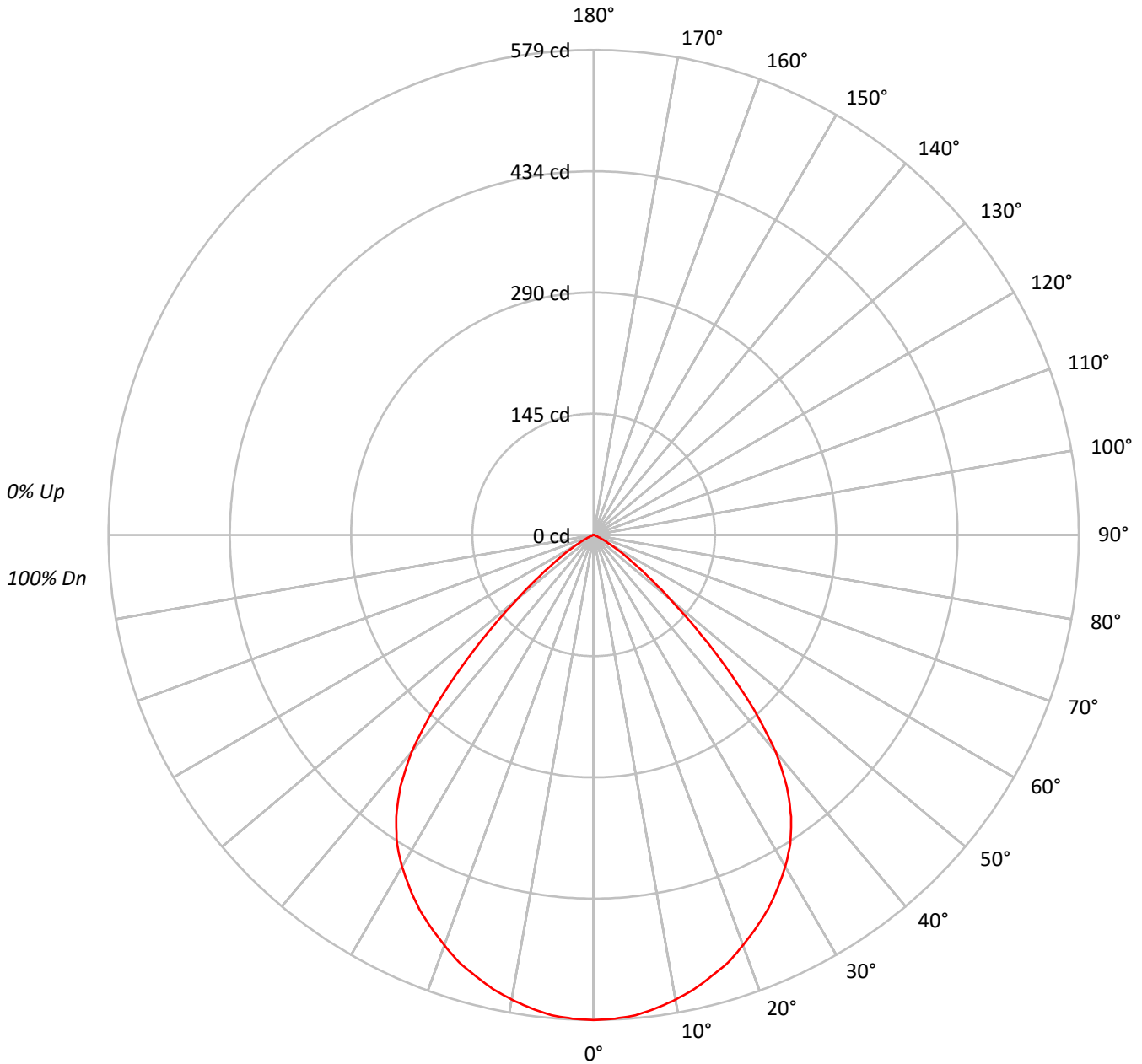
Lumens per Lamp: N/A
Luminaire Lumens: 925.4 lumens
Efficiency: N/A
Efficacy: 88.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.21
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 10.5
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									20									20
RC	80									50									30									10									0									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°	31752
5°	31686
10°	31357
15°	30937
20°	30406
25°	29802
30°	28954
35°	27492
40°	24188
45°	17289
50°	10089
55°	5333
60°	2500
65°	1038
70°	369
75°	233
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 17289 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.5	5.9
10°-20°	153.7	16.6
20°-30°	226.5	24.5
30°-40°	253.7	27.4
40°-50°	172.0	18.6
50°-60°	54.6	5.9
60°-70°	9.2	1.0
70°-80°	1.2	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°	434.8	47.0
0°-40°	688.4	74.4
0°-60°	915.0	98.9
0°-90°	925.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	925.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	579	
5°	576	55
15°	545	154
25°	493	227
35°	411	254
45°	223	172
55°	56	55
65°	8	9
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	579.2
2.5°	578.1
5°	575.8
7.5°	570.1
10°	563.3
12.5°	555.3
15°	545.1
17.5°	534.8
20°	521.2
22.5°	507.5
25°	492.7
27.5°	475.6
30°	457.4
32.5°	437.0
35°	410.8
37.5°	378.9
40°	338.0
42.5°	283.3
45°	223.0
47.5°	166.1
50°	118.3
52.5°	83.1
55°	55.8
57.5°	37.6
60°	22.8
62.5°	13.7
65°	8.0
67.5°	3.4
70°	2.3
72.5°	1.1
75°	1.1
77.5°	1.1
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)