

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: P643493

Luminaire Tested: ML5615LSVWFL9FS1E - 593TBZB - 900LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643493
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-100)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSVWFL9FS1E - 593TBZB - 900LM - 3500K
Description: ML56 RR, MILKY OPTIC, 5" TUSCON BRONZE BAFFLE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 775.5 lumens
Efficiency: N/A
Efficacy: 73.9 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.12
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

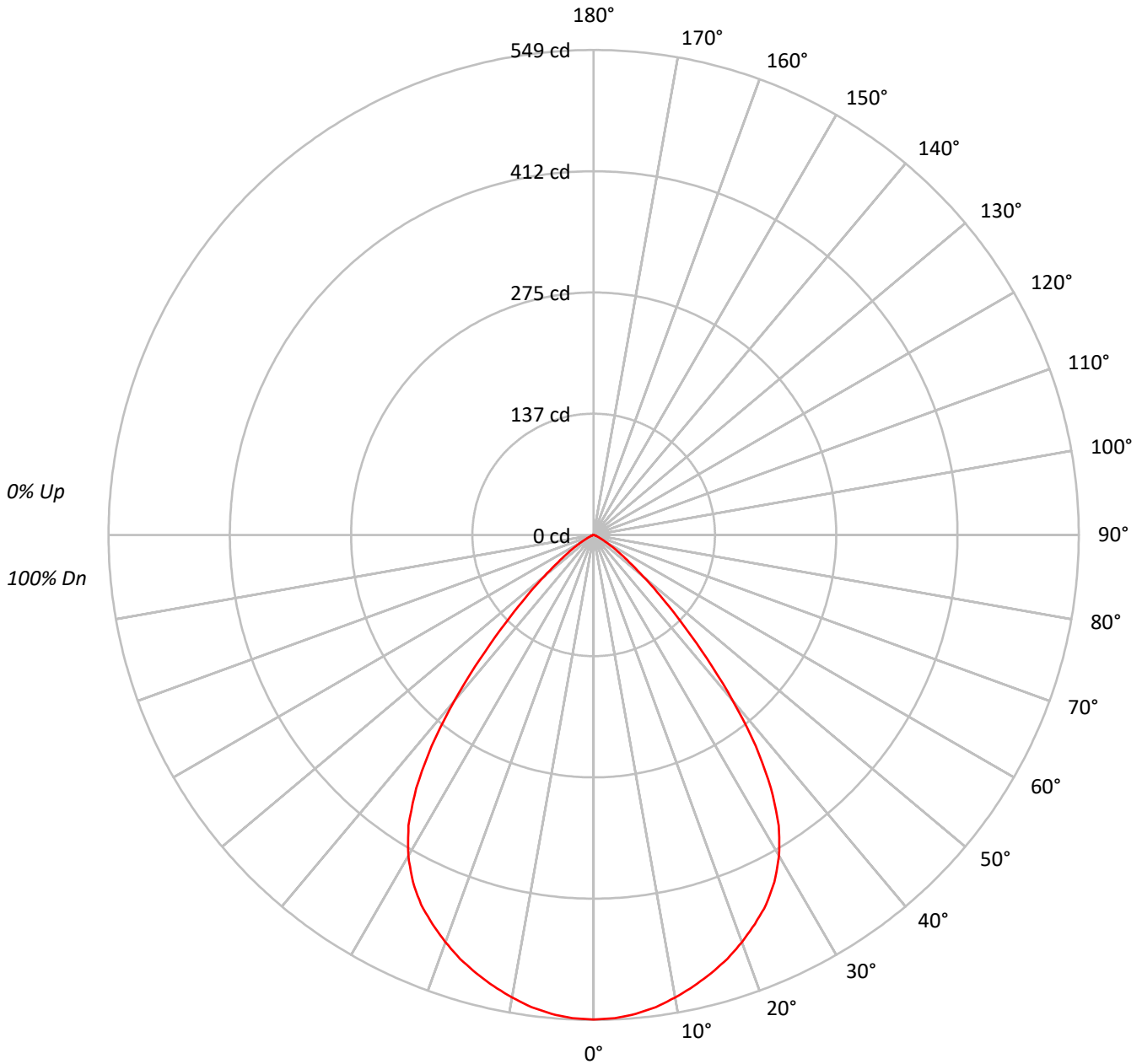
Input Watts (W): 10.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100																
1	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92			92																
2	106	101	96	92	104	99	95	91	96	92	89	92	90	87	90	87	85	84			84																
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76			76																
4	94	85	79	74	92	84	78	73	81	76	72	79	75	71	77	74	71	69			69																
5	88	78	72	67	86	77	71	66	75	70	66	74	69	65	72	68	64	63			63																
6	83	72	65	61	81	71	65	60	70	64	60	68	63	59	67	62	59	57			57																
7	78	67	60	55	76	66	60	55	65	59	55	64	58	54	62	58	54	53			53																
8	73	62	55	51	72	62	55	51	60	55	50	59	54	50	58	53	50	48			48																
9	69	58	51	47	68	57	51	47	56	51	46	55	50	46	55	50	46	45			45																
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43	41			41																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	43307
5°	43140
10°	42620
15°	41982
20°	41206
25°	40232
30°	38248
35°	33720
40°	25268
45°	15696
50°	8953
55°	4803
60°	2337
65°	990
70°	485
75°	336
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15696 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.6	6.6
10°-20°	144.8	18.7
20°-30°	211.6	27.3
30°-40°	213.6	27.5
40°-50°	112.7	14.5
50°-60°	33.8	4.4
60°-70°	6.5	0.8
70°-80°	1.1	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°	407.9	52.6
0°-40°	621.5	80.1
0°-60°	767.9	99.0
0°-90°	775.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	775.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	549	
5°	544	52
15°	514	145
25°	462	212
35°	350	214
45°	141	113
55°	35	34
65°	5	6
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	548.6
2.5°	547.5
5°	544.4
7.5°	539.1
10°	531.7
12.5°	523.2
15°	513.7
17.5°	503.1
20°	490.5
22.5°	476.7
25°	461.9
27.5°	442.9
30°	419.6
32.5°	390.0
35°	349.9
37.5°	301.3
40°	245.2
42.5°	189.2
45°	140.6
47.5°	102.5
50°	72.9
52.5°	50.7
55°	34.9
57.5°	23.3
60°	14.8
62.5°	9.5
65°	5.3
67.5°	3.2
70°	2.1
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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