

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: P643485

Luminaire Tested: ML5615LSVWFL9FS1E - 593TBZB - 1200LM - 5000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643485
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 - 1200LM - 5000K
Description: ML56 RR, MILKY OPTIC, 5" TUSCON BRONZE BAFFLE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

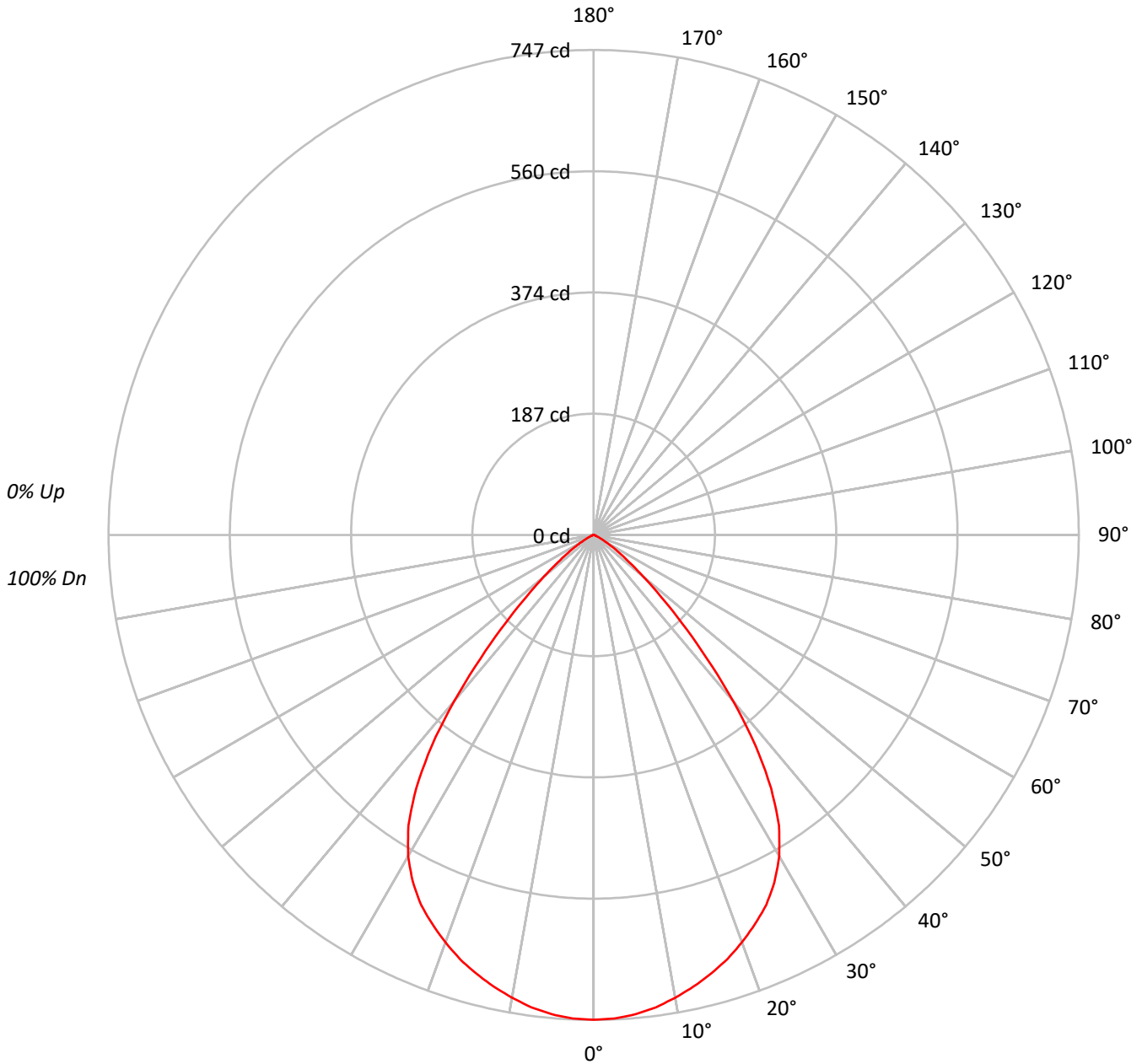
Lumens per Lamp: N/A
Luminaire Lumens: 1055.8 lumens
Efficiency: N/A
Efficacy: 78.8 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.12
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	58953
5°	58727
10°	58019
15°	57151
20°	56092
25°	54770
30°	52076
35°	45901
40°	34398
45°	21368
50°	12195
55°	6537
60°	3173
65°	1345
70°	669
75°	427
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 21368 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.2	6.6
10°-20°	197.1	18.7
20°-30°	288.0	27.3
30°-40°	290.8	27.5
40°-50°	153.4	14.5
50°-60°	46.0	4.4
60°-70°	8.8	0.8
70°-80°	1.5	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°	555.3	52.6
0°-40°	846.1	80.1
0°-60°	1045.4	99.0
0°-90°	1055.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1055.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	747	
5°	741	70
15°	699	197
25°	629	288
35°	476	291
45°	191	153
55°	48	46
65°	7	9
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	746.8
2.5°	745.4
5°	741.1
7.5°	733.9
10°	723.8
12.5°	712.3
15°	699.3
17.5°	685.0
20°	667.7
22.5°	649.0
25°	628.8
27.5°	602.9
30°	571.3
32.5°	531.0
35°	476.3
37.5°	410.1
40°	333.8
42.5°	257.6
45°	191.4
47.5°	139.6
50°	99.3
52.5°	69.1
55°	47.5
57.5°	31.7
60°	20.1
62.5°	13.0
65°	7.2
67.5°	4.3
70°	2.9
72.5°	1.4
75°	1.4
77.5°	1.4
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)