

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: P643184

Luminaire Tested: ML5615LSVWFL759FS1E - 594TBZB - 1200LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643184
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-80)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSVWFL759FS1E - 594TBZB - 1200LM - 4000K
Description: ML56 RR, 75D TIR OPTIC, 5" TUSCON BRONZE GIMBAL TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1574.4 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.09
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

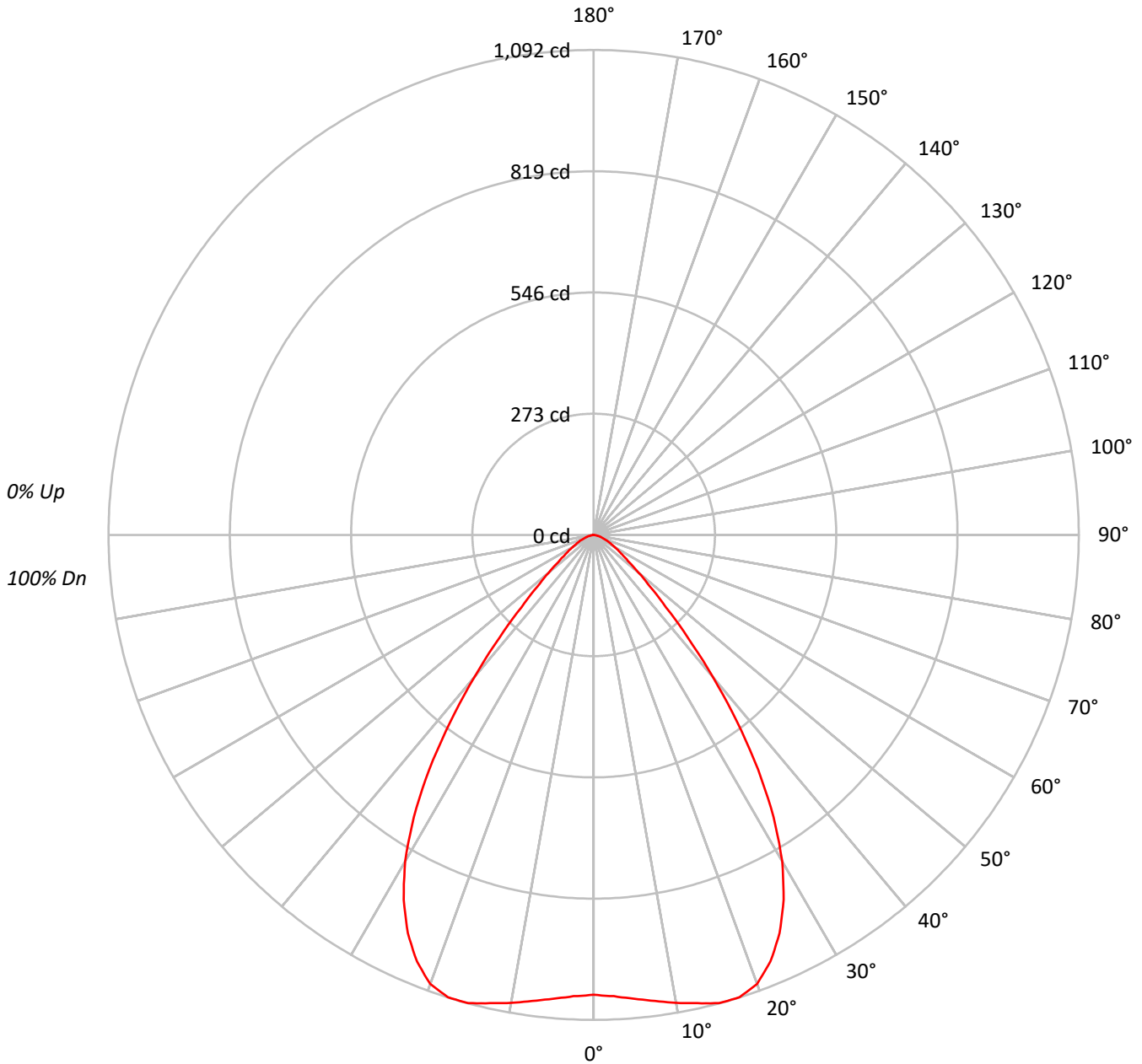
Input Watts (W): 13.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91				
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	84	83				
3	99	92	86	81	97	90	85	80	87	83	79	85	81	78	83	79	77	75				
4	93	84	78	73	91	83	77	72	81	76	72	79	74	71	77	73	70	68				
5	87	78	71	66	86	77	70	66	75	69	65	73	68	64	71	67	64	62				
6	82	72	65	60	81	71	64	60	69	64	59	68	63	59	67	62	58	57				
7	77	67	60	55	76	66	59	55	65	59	54	63	58	54	62	57	54	52				
8	73	62	55	50	72	61	55	50	60	54	50	59	54	50	58	53	50	48				
9	69	58	51	47	68	57	51	47	56	50	46	55	50	46	54	50	46	44				
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°	81735
5°	83078
10°	85762
15°	89204
20°	90367
25°	86178
30°	77343
35°	62226
40°	42972
45°	25688
50°	16248
55°	11079
60°	8620
65°	6986
70°	5632
75°	4392
80°	2637
85°	1268

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 25688 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.7	6.4
10°-20°	307.4	19.5
20°-30°	450.2	28.6
30°-40°	396.9	25.2
40°-50°	188.5	12.0
50°-60°	75.8	4.8
60°-70°	37.5	2.4
70°-80°	15.3	1.0
80°-90°	2.0	0.1
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°	858.4	54.5
0°-40°	1255.3	79.7
0°-60°	1519.6	96.5
0°-90°	1574.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1574.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1035	
5°	1048	101
15°	1092	307
25°	989	450
35°	646	397
45°	230	189
55°	80	76
65°	37	37
75°	14	15
85°	1	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1035.4
2.5°	1039.7
5°	1048.4
7.5°	1058.4
10°	1069.9
12.5°	1080.0
15°	1091.5
17.5°	1091.5
20°	1075.7
22.5°	1039.7
25°	989.4
27.5°	926.1
30°	848.5
32.5°	753.6
35°	645.7
37.5°	529.2
40°	417.0
42.5°	313.5
45°	230.1
47.5°	171.1
50°	132.3
52.5°	100.7
55°	80.5
57.5°	66.2
60°	54.6
62.5°	44.6
65°	37.4
67.5°	30.2
70°	24.4
72.5°	18.7
75°	14.4
77.5°	10.1
80°	5.8
82.5°	2.9
85°	1.4
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)