

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: P643183

Luminaire Tested: ML5615LSVWFL759FS1E - 594TBZB - 1200LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643183
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 - 3500K
Description: ML56 RR, 75D TIR OPTIC, 5" TUSCON BRONZE GIMBAL TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

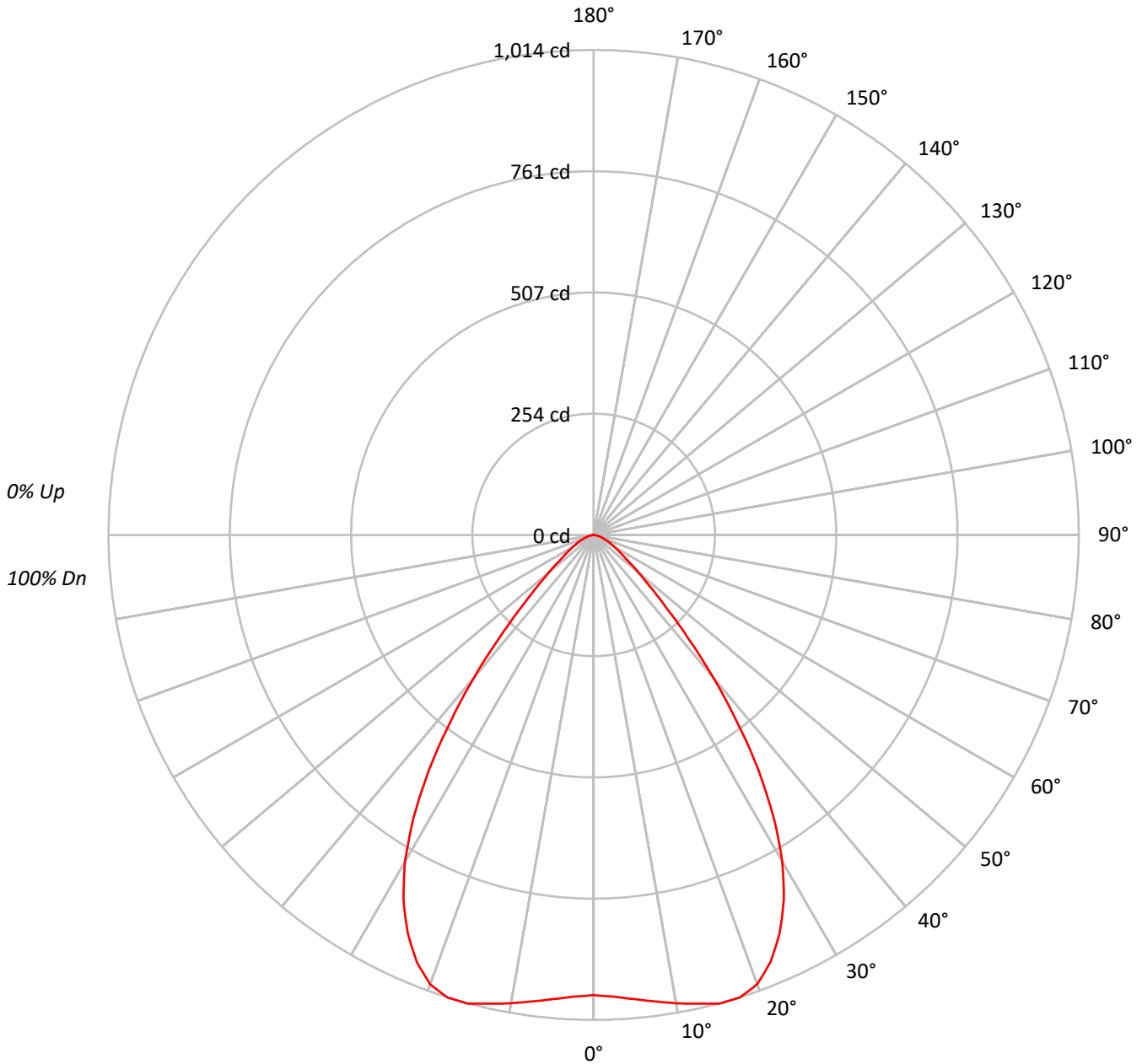
Lumens per Lamp: N/A
Luminaire Lumens: 1463.3 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.09
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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			100
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91			91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	84	83			83
3	99	92	86	81	97	90	85	80	87	83	79	85	81	78	83	79	77	75			75
4	93	84	78	73	91	83	77	72	81	76	72	79	74	71	77	73	70	68			68
5	87	78	71	66	86	77	70	66	75	69	65	73	68	64	71	67	64	62			62
6	82	72	65	60	81	71	64	60	69	64	59	68	63	59	67	62	58	57			57
7	77	67	60	55	76	66	59	55	65	59	54	63	58	54	62	57	54	52			52
8	73	62	55	50	72	61	55	50	60	54	50	59	54	50	58	53	50	48			48
9	69	58	51	47	68	57	51	47	56	50	46	55	50	46	54	50	46	44			44
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°	75965
5°	77214
10°	79710
15°	82911
20°	83982
25°	80099
30°	71883
35°	57831
40°	39942
45°	23880
50°	15106
55°	10295
60°	8020
65°	6500
70°	5239
75°	4087
80°	2409
85°	1177

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 23880 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.6	6.4
10°-20°	285.8	19.5
20°-30°	418.4	28.6
30°-40°	368.9	25.2
40°-50°	175.3	12.0
50°-60°	70.5	4.8
60°-70°	34.8	2.4
70°-80°	14.3	1.0
80°-90°	1.8	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°	797.8	54.5
0°-40°	1166.7	79.7
0°-60°	1412.4	96.5
0°-90°	1463.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1463.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	962	
5°	974	94
15°	1014	286
25°	920	418
35°	600	369
45°	214	175
55°	75	70
65°	35	35
75°	13	14
85°	1	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	962.3
2.5°	966.3
5°	974.4
7.5°	983.7
10°	994.4
12.5°	1003.8
15°	1014.5
17.5°	1014.5
20°	999.7
22.5°	966.3
25°	919.6
27.5°	860.7
30°	788.6
32.5°	700.4
35°	600.1
37.5°	491.9
40°	387.6
42.5°	291.4
45°	213.9
47.5°	159.1
50°	123.0
52.5°	93.6
55°	74.8
57.5°	61.5
60°	50.8
62.5°	41.4
65°	34.8
67.5°	28.1
70°	22.7
72.5°	17.4
75°	13.4
77.5°	9.4
80°	5.3
82.5°	2.7
85°	1.3
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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