

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: P643182

Luminaire Tested: ML5615LSVWFL759FS1E - 594TBZB - 1200LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643182
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 - 3000K
Description: ML56 RR, 75D TIR OPTIC, 5" TUSCON BRONZE GIMBAL TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

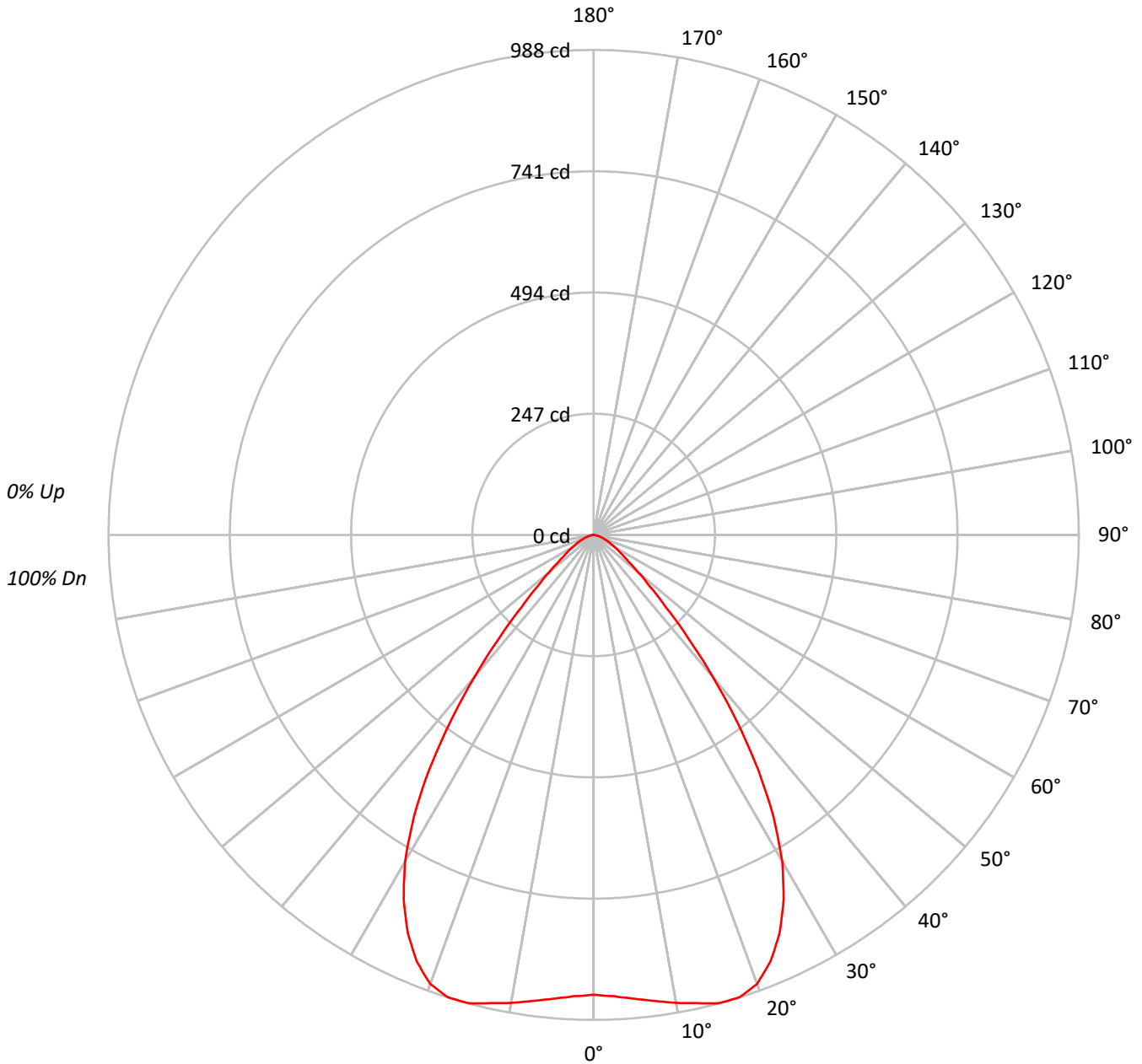
Lumens per Lamp: N/A
Luminaire Lumens: 1424.4 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.09
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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°	73952
5°	75161
10°	77602
15°	80712
20°	81764
25°	77973
30°	69978
35°	56299
40°	38881
45°	23243
50°	14700
55°	10033
60°	7799
65°	6314
70°	5101
75°	3965
80°	2364
85°	1177

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 23243 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.1	6.4
10°-20°	278.2	19.5
20°-30°	407.4	28.6
30°-40°	359.1	25.2
40°-50°	170.6	12.0
50°-60°	68.6	4.8
60°-70°	33.9	2.4
70°-80°	13.9	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°	776.7	54.5
0°-40°	1135.8	79.7
0°-60°	1374.9	96.5
0°-90°	1424.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1424.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	937	
5°	948	91
15°	988	278
25°	895	407
35°	584	359
45°	208	171
55°	73	69
65°	34	34
75°	13	14
85°	1	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	936.8
2.5°	940.7
5°	948.5
7.5°	957.6
10°	968.1
12.5°	977.2
15°	987.6
17.5°	987.6
20°	973.3
22.5°	940.7
25°	895.2
27.5°	837.9
30°	767.7
32.5°	681.8
35°	584.2
37.5°	478.8
40°	377.3
42.5°	283.6
45°	208.2
47.5°	154.8
50°	119.7
52.5°	91.1
55°	72.9
57.5°	59.9
60°	49.4
62.5°	40.3
65°	33.8
67.5°	27.3
70°	22.1
72.5°	16.9
75°	13.0
77.5°	9.1
80°	5.2
82.5°	2.6
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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