

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: P643350

Luminaire Tested: ML5615LSVWFL759FS1E - 694TBZB - 1200LM - 5000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643350
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-91)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSVWFL759FS1E - 694TBZB - 1200LM - 5000K
Description: ML56 RR, 75D TIR OPTIC, 6" TUSCON BRONZE GIMBAL TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

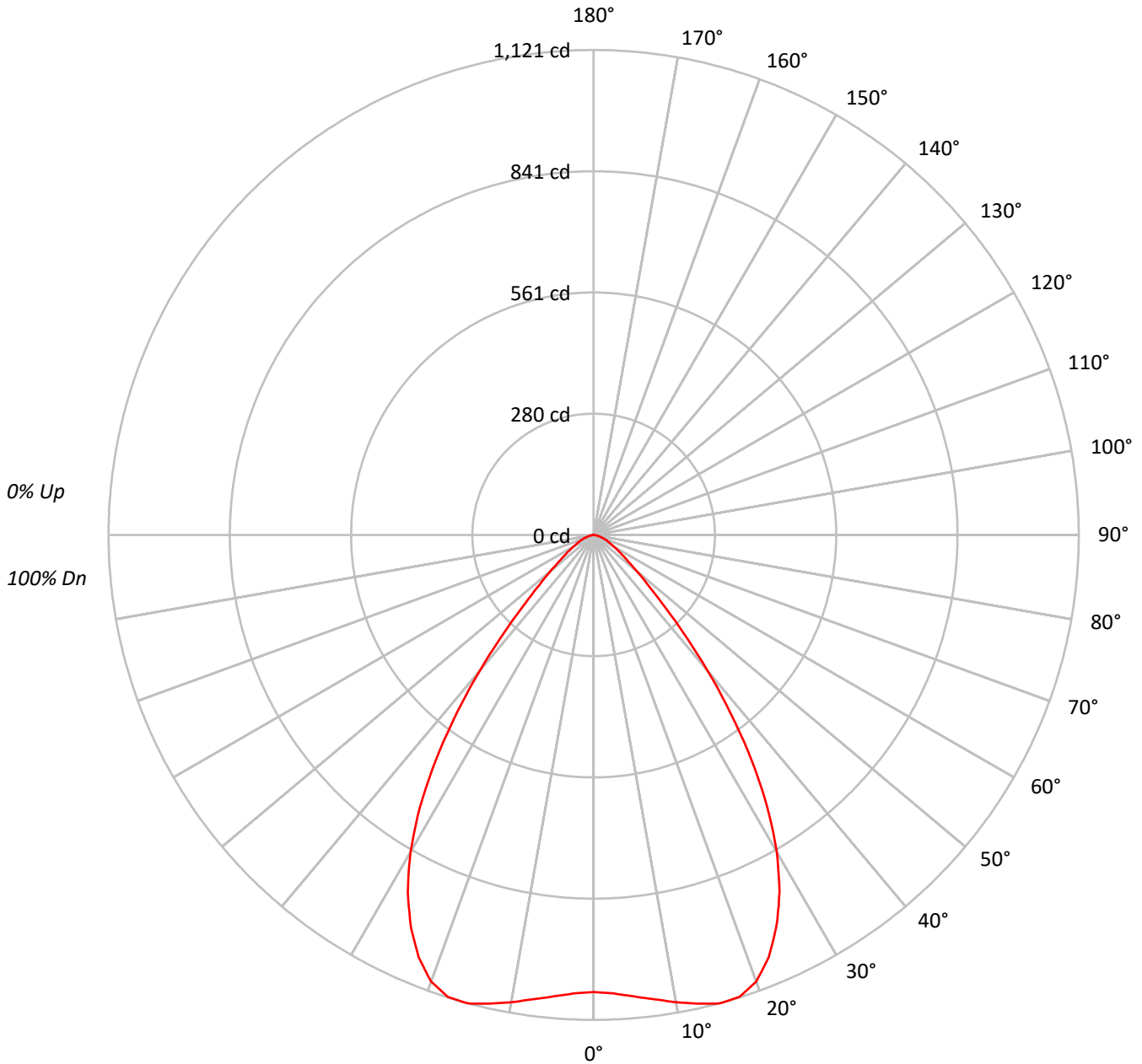
Lumens per Lamp: N/A
Luminaire Lumens: 1579.3 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.08
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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	85	83			
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75			
4	93	84	78	73	91	83	77	73	81	76	72	79	74	71	77	73	70	68			
5	88	78	71	66	86	77	71	66	75	69	65	73	68	65	72	67	64	62			
6	82	72	65	60	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	52			
8	73	62	55	51	72	62	55	51	61	55	50	59	54	50	58	54	50	48			
9	69	58	51	47	68	58	51	47	57	51	47	56	50	46	55	50	46	45			
10	65	54	48	44	64	54	48	43	53	47	43	52	47	43	51	47	43	42			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	57923
5°	58937
10°	61054
15°	63638
20°	64073
25°	60433
30°	53597
35°	42617
40°	29219
45°	17273
50°	11036
55°	7694
60°	5833
65°	4851
70°	3911
75°	3050
80°	1831
85°	881

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 17273 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.0	6.5
10°-20°	315.4	20.0
20°-30°	454.6	28.8
30°-40°	392.2	24.8
40°-50°	183.8	11.6
50°-60°	75.3	4.8
60°-70°	37.6	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°	873.0	55.3
0°-40°	1265.3	80.1
0°-60°	1524.4	96.5
0°-90°	1579.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1579.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1057	
5°	1071	103
15°	1121	315
25°	999	455
35°	637	392
45°	223	184
55°	80	75
65°	37	38
75°	14	15
85°	1	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1056.6
2.5°	1060.9
5°	1071.0
7.5°	1082.5
10°	1096.8
12.5°	1109.8
15°	1121.3
17.5°	1119.8
20°	1098.3
22.5°	1056.6
25°	999.1
27.5°	930.1
30°	846.7
32.5°	747.5
35°	636.8
37.5°	520.4
40°	408.3
42.5°	304.8
45°	222.8
47.5°	168.2
50°	129.4
52.5°	100.6
55°	80.5
57.5°	66.1
60°	53.2
62.5°	44.6
65°	37.4
67.5°	31.6
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)