

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: P643010

Luminaire Tested: ML5615LSNFL259FS1E - 694TBZB - 1500LM - 5000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643010
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-22)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSNFL259FS1E - 694TBZB - 1500LM - 5000K
Description: ML56 RR, 25D TIR OPTIC, 6" TUSCON BRONZE GIMBAL TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

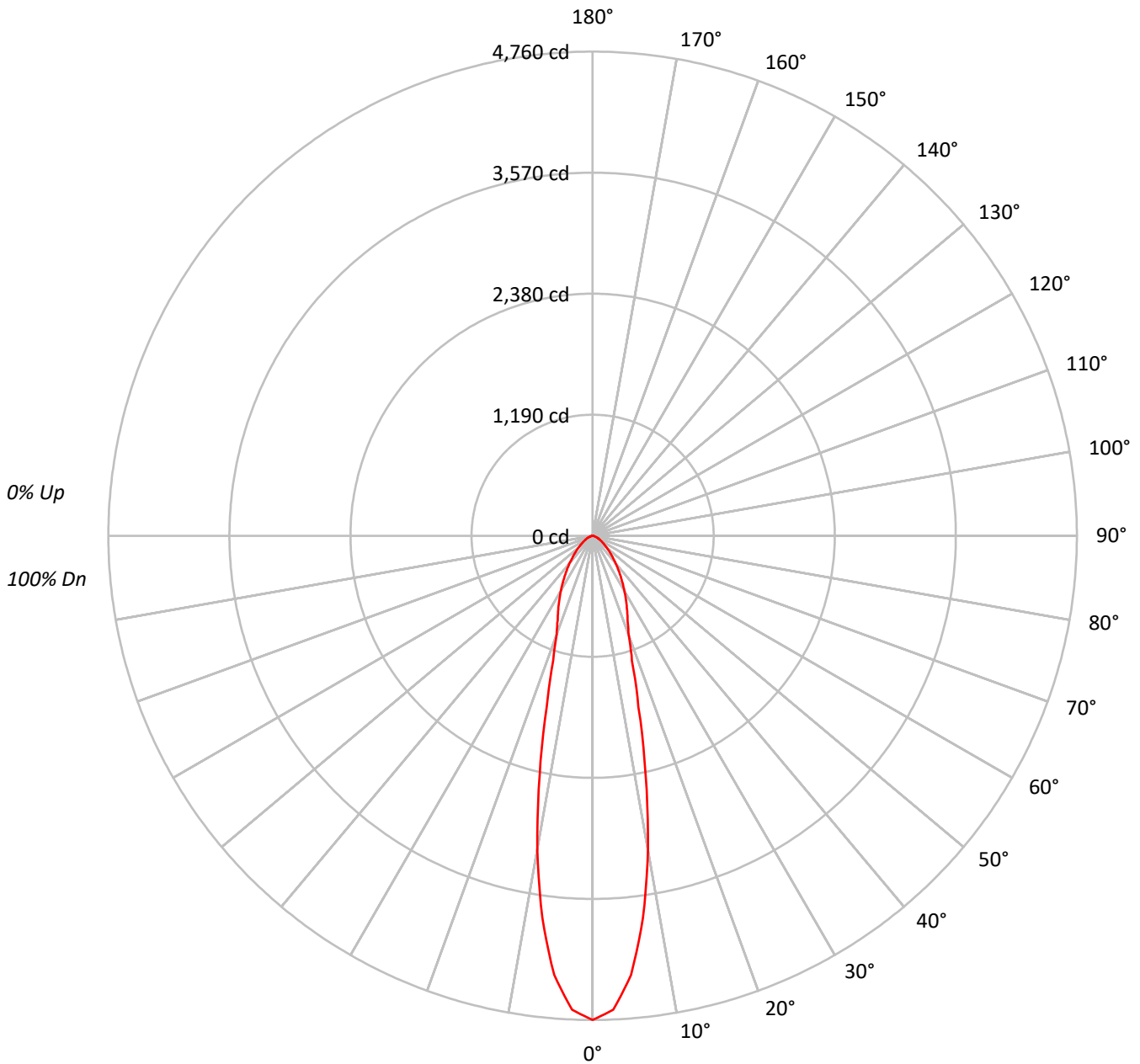
Lumens per Lamp: N/A
Luminaire Lumens: 1932.8 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.43
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 17.1
Input Voltage (V): NR
Input Current (Ain): 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	105	111	108	106	103	104	102	100	100	99	97	97	95	94	93			
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85			
3	101	94	89	85	99	93	88	84	90	86	83	88	84	82	86	83	80	79			
4	96	88	82	78	94	87	81	77	85	80	76	83	79	75	81	77	75	73			
5	91	82	76	72	89	81	76	71	80	75	71	78	74	70	76	73	70	68			
6	87	77	71	67	85	77	71	67	75	70	66	74	69	66	72	68	65	64			
7	83	73	67	63	81	72	67	63	71	66	62	70	65	62	69	65	61	60			
8	79	69	63	59	78	69	63	59	68	62	59	67	62	58	66	61	58	57			
9	75	66	60	56	74	65	60	56	64	59	56	63	59	55	63	58	55	54			
10	72	63	57	53	71	62	57	53	62	56	53	61	56	53	60	56	53	51			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	260933
5°	238471
10°	174178
15°	98780
20°	60264
25°	48360
30°	39411
35°	31608
40°	25061
45°	19607
50°	15232
55°	12004
60°	9506
65°	7796
70°	5674
75°	3368
80°	1673
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 19607 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	374.3	19.4
10°-20°	501.3	25.9
20°-30°	369.0	19.1
30°-40°	297.0	15.4
40°-50°	197.3	10.2
50°-60°	114.3	5.9
60°-70°	60.0	3.1
70°-80°	17.9	0.9
80°-90°	1.7	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°	1244.6	64.4
0°-40°	1541.6	79.8
0°-60°	1853.2	95.9
0°-90°	1932.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1932.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4760	
5°	4334	374
15°	1740	501
25°	800	369
35°	472	297
45°	253	197
55°	126	114
65°	60	60
75°	16	18
85°	0	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4759.8
2.5°	4664.3
5°	4333.5
7.5°	3790.5
10°	3129.0
12.5°	2405.5
15°	1740.5
17.5°	1285.9
20°	1033.0
22.5°	898.5
25°	799.5
27.5°	709.3
30°	622.6
32.5°	544.8
35°	472.3
37.5°	408.6
40°	350.2
42.5°	297.2
45°	252.9
47.5°	214.0
50°	178.6
52.5°	150.3
55°	125.6
57.5°	104.4
60°	86.7
62.5°	72.5
65°	60.1
67.5°	49.5
70°	35.4
72.5°	23.0
75°	15.9
77.5°	8.8
80°	5.3
82.5°	3.5
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)