

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: P642841

Luminaire Tested: ML5615LSNFL259FS1E - 594TBZB - 1500LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642841
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSNFL259FS1E - 594TBZB - 1500LM - 2700K
Description: ML56 RR, 25D TIR OPTIC, 5" TUSCON BRONZE GIMBAL TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1701.1 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.43
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

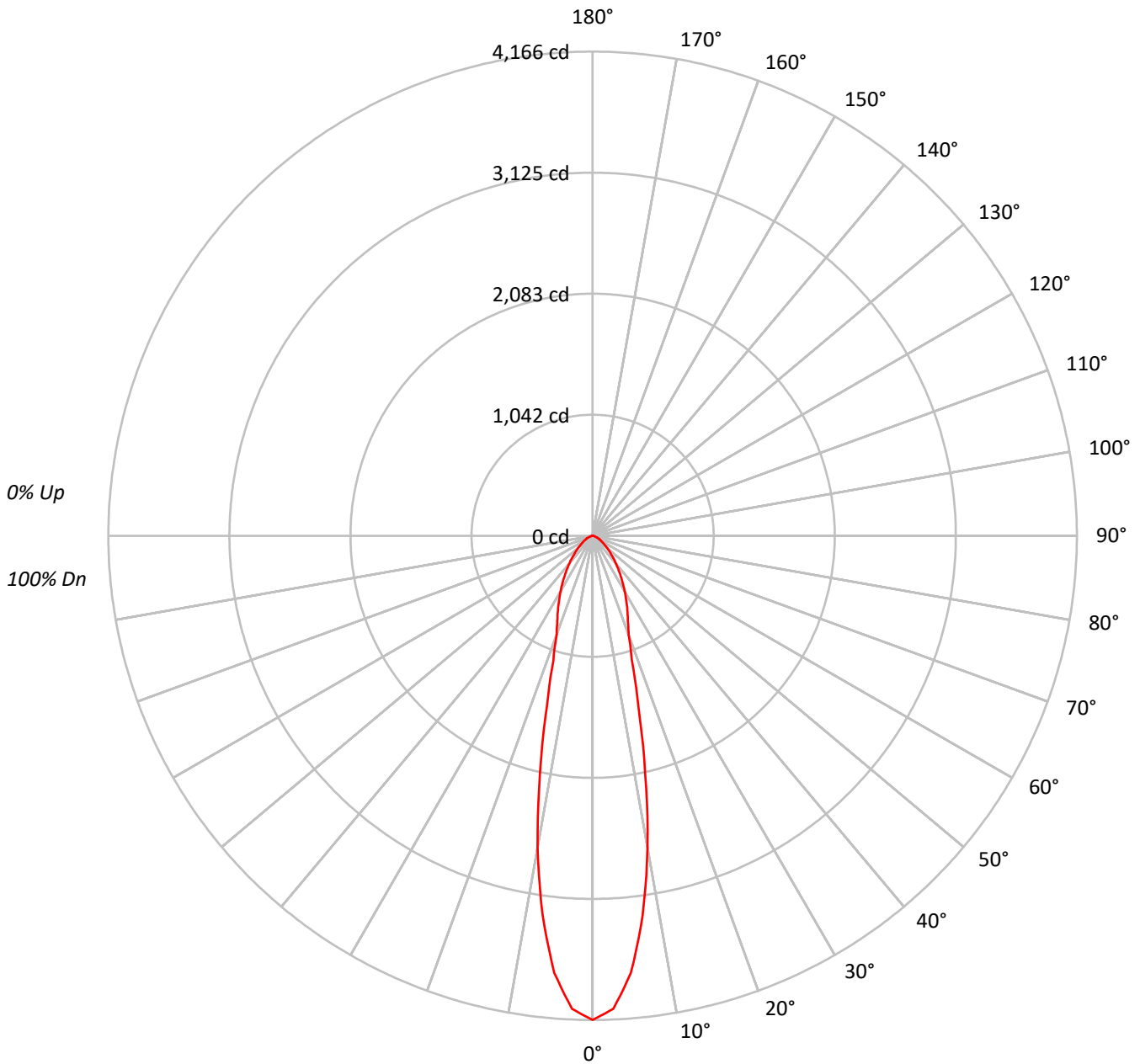
Input Watts (W): 17.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	105	103	104	102	100	100	99	97	97	95	94	92																			
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	81	85	83	80	78																			
4	96	88	82	77	94	87	81	77	84	80	76	82	78	75	81	77	74	73																			
5	91	82	76	72	89	81	76	71	79	74	71	78	73	70	76	72	69	68																			
6	86	77	71	67	85	76	71	66	75	70	66	73	69	65	72	68	65	64																			
7	82	73	67	62	81	72	66	62	71	66	62	70	65	62	69	64	61	60																			
8	79	69	63	59	77	68	63	59	67	62	58	66	62	58	65	61	58	57																			
9	75	66	60	56	74	65	59	56	64	59	55	63	59	55	62	58	55	54																			
10	72	62	57	53	71	62	57	53	61	56	53	60	56	52	60	55	52	51																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	328868
5°	299204
10°	218304
15°	123863
20°	76136
25°	61468
30°	50162
35°	40446
40°	32038
45°	25164
50°	19662
55°	15401
60°	12267
65°	10161
70°	7178
75°	3782
80°	2819
85°	1449

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 25164 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.0	19.2
10°-20°	436.7	25.7
20°-30°	325.5	19.1
30°-40°	263.4	15.5
40°-50°	176.1	10.4
50°-60°	102.0	6.0
60°-70°	53.7	3.2
70°-80°	15.5	0.9
80°-90°	2.1	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°	1088.2	64.0
0°-40°	1351.6	79.5
0°-60°	1629.7	95.8
0°-90°	1701.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1701.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4166	
5°	3776	326
15°	1516	437
25°	706	325
35°	420	263
45°	225	176
55°	112	102
65°	54	54
75°	12	16
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4166.0
2.5°	4074.3
5°	3775.8
7.5°	3295.5
10°	2723.4
12.5°	2087.7
15°	1515.6
17.5°	1123.9
20°	906.3
22.5°	792.8
25°	705.7
27.5°	626.5
30°	550.3
32.5°	483.4
35°	419.7
37.5°	362.2
40°	310.9
42.5°	265.8
45°	225.4
47.5°	191.2
50°	160.1
52.5°	133.7
55°	111.9
57.5°	93.3
60°	77.7
62.5°	65.3
65°	54.4
67.5°	43.5
70°	31.1
72.5°	20.2
75°	12.4
77.5°	7.8
80°	6.2
82.5°	3.1
85°	1.6
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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