

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: P643007

Luminaire Tested: ML5615LSNFL259FS1E - 694TBZB - 1500LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643007
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 - 3000K
Description: ML56 RR, 25D TIR OPTIC, 6" TUSCON BRONZE GIMBAL TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1748.1 lumens
Efficiency: N/A
Efficacy: 102.2 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

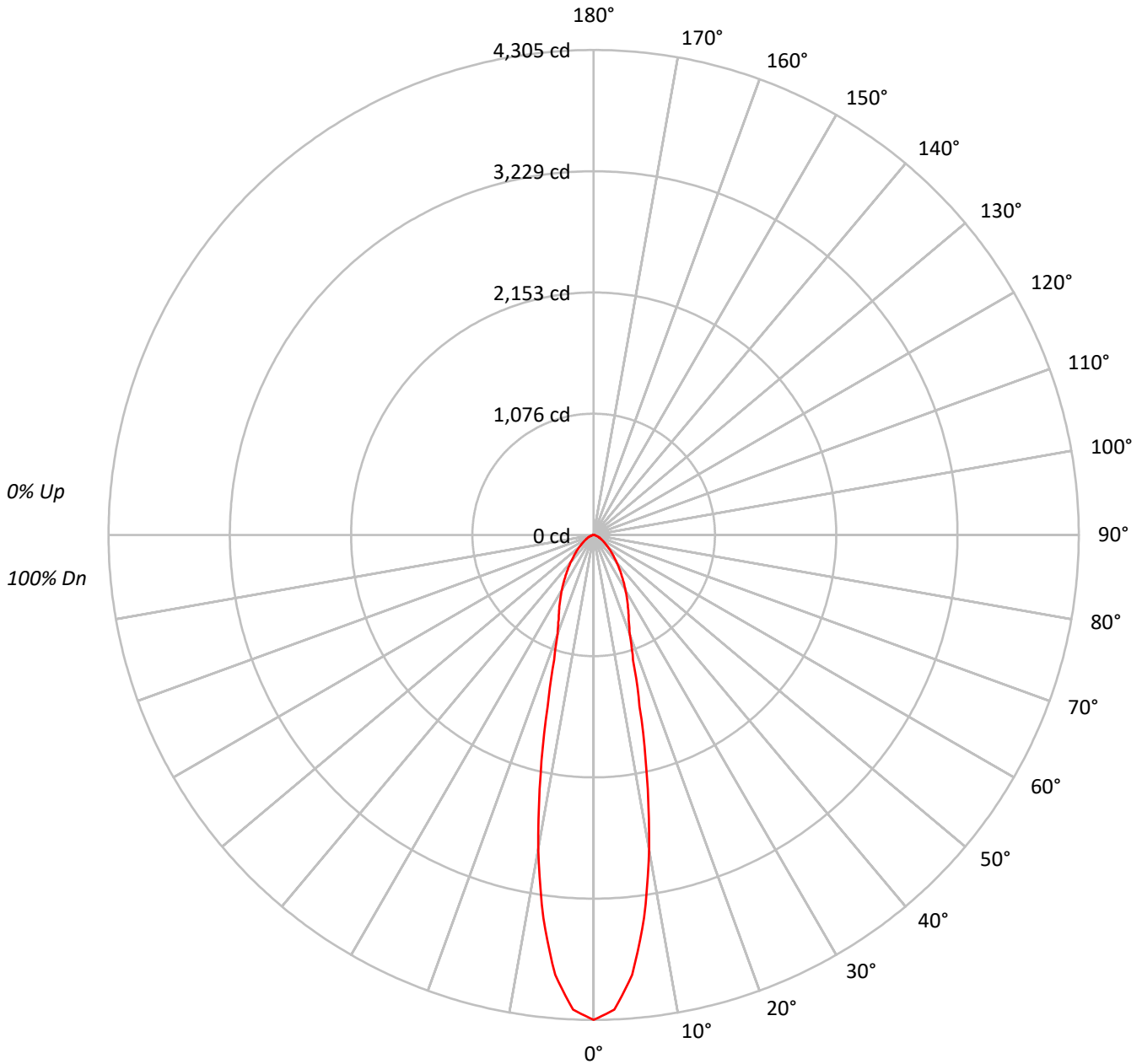
Input Watts (W): 17.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	235995
5°	215683
10°	157529
15°	89336
20°	54500
25°	43738
30°	35645
35°	28583
40°	22664
45°	17738
50°	13782
55°	10857
60°	8596
65°	7057
70°	5129
75°	3050
80°	1515
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 17738 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.6	19.4
10°-20°	453.4	25.9
20°-30°	333.7	19.1
30°-40°	268.6	15.4
40°-50°	178.5	10.2
50°-60°	103.4	5.9
60°-70°	54.3	3.1
70°-80°	16.2	0.9
80°-90°	1.5	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°	1125.7	64.4
0°-40°	1394.2	79.8
0°-60°	1676.1	95.9
0°-90°	1748.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1748.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4305	
5°	3919	339
15°	1574	453
25°	723	334
35°	427	269
45°	229	179
55°	114	103
65°	54	54
75°	14	16
85°	0	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4304.9
2.5°	4218.5
5°	3919.4
7.5°	3428.2
10°	2829.9
12.5°	2175.6
15°	1574.1
17.5°	1163.0
20°	934.2
22.5°	812.7
25°	723.1
27.5°	641.5
30°	563.1
32.5°	492.7
35°	427.1
37.5°	369.5
40°	316.7
42.5°	268.8
45°	228.8
47.5°	193.6
50°	161.6
52.5°	136.0
55°	113.6
57.5°	94.4
60°	78.4
62.5°	65.6
65°	54.4
67.5°	44.8
70°	32.0
72.5°	20.8
75°	14.4
77.5°	8.0
80°	4.8
82.5°	3.2
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)