

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: P643024

Luminaire Tested: ML5615LSNFL259FS1E - 694WB - 1500LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643024
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSNFL259FS1E - 694WB - 1500LM - 4000K
Description: ML56 RR, 25D TIR OPTIC, 6" WHITE GIMBAL TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1935.6 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.43
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

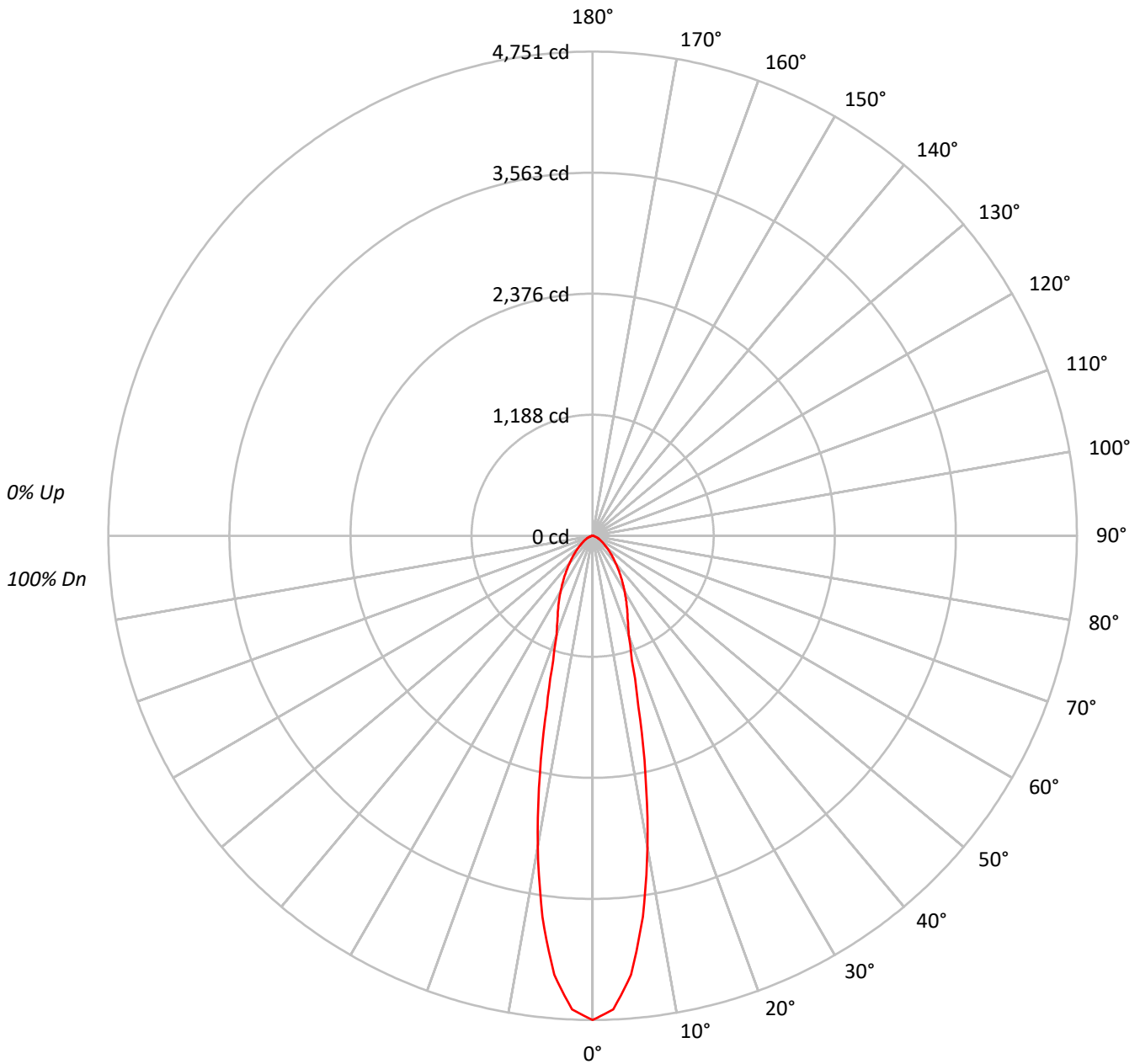
Input Watts (W): 17.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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	78	94	87	81	77	85	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	87	77	71	67	85	77	71	66	75	70	66	74	69	66	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	69	63	59	67	62	58	66	62	58	65	61	58	57				
9	75	66	60	56	74	65	60	56	64	59	55	63	59	55	62	58	55	54				
10	72	63	57	53	71	62	57	53	61	56	53	61	56	53	60	56	52	51				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	260473
5°	237838
10°	172620
15°	98275
20°	60199
25°	48523
30°	39595
35°	31809
40°	25161
45°	19863
50°	15522
55°	12157
60°	9681
65°	7796
70°	5658
75°	2987
80°	2241
85°	1132

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 19863 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	372.6	19.3
10°-20°	498.6	25.8
20°-30°	369.6	19.1
30°-40°	298.4	15.4
40°-50°	199.7	10.3
50°-60°	115.9	6.0
60°-70°	60.6	3.1
70°-80°	17.6	0.9
80°-90°	2.4	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°	1240.9	64.1
0°-40°	1539.3	79.5
0°-60°	1854.9	95.8
0°-90°	1935.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1935.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4751	
5°	4322	373
15°	1732	499
25°	802	370
35°	475	298
45°	256	200
55°	127	116
65°	60	61
75°	14	18
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4751.4
2.5°	4652.4
5°	4322.0
7.5°	3770.7
10°	3101.0
12.5°	2388.9
15°	1731.6
17.5°	1282.8
20°	1031.9
22.5°	899.4
25°	802.2
27.5°	710.3
30°	625.5
32.5°	547.8
35°	475.3
37.5°	409.9
40°	351.6
42.5°	302.2
45°	256.2
47.5°	215.6
50°	182.0
52.5°	152.0
55°	127.2
57.5°	106.0
60°	88.3
62.5°	74.2
65°	60.1
67.5°	49.5
70°	35.3
72.5°	23.0
75°	14.1
77.5°	8.8
80°	7.1
82.5°	3.5
85°	1.8
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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