

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: P643034

Luminaire Tested: ML5615LSNFL259FS1E - 696WB - 1200LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643034
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-23)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSNFL259FS1E - 696WB - 1200LM - 4000K
Description: ML56 RR, 25D TIR OPTIC, 6" SHALLOW WHITE BAFFLE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1562.9 lumens
Efficiency: N/A
Efficacy: 116.6 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

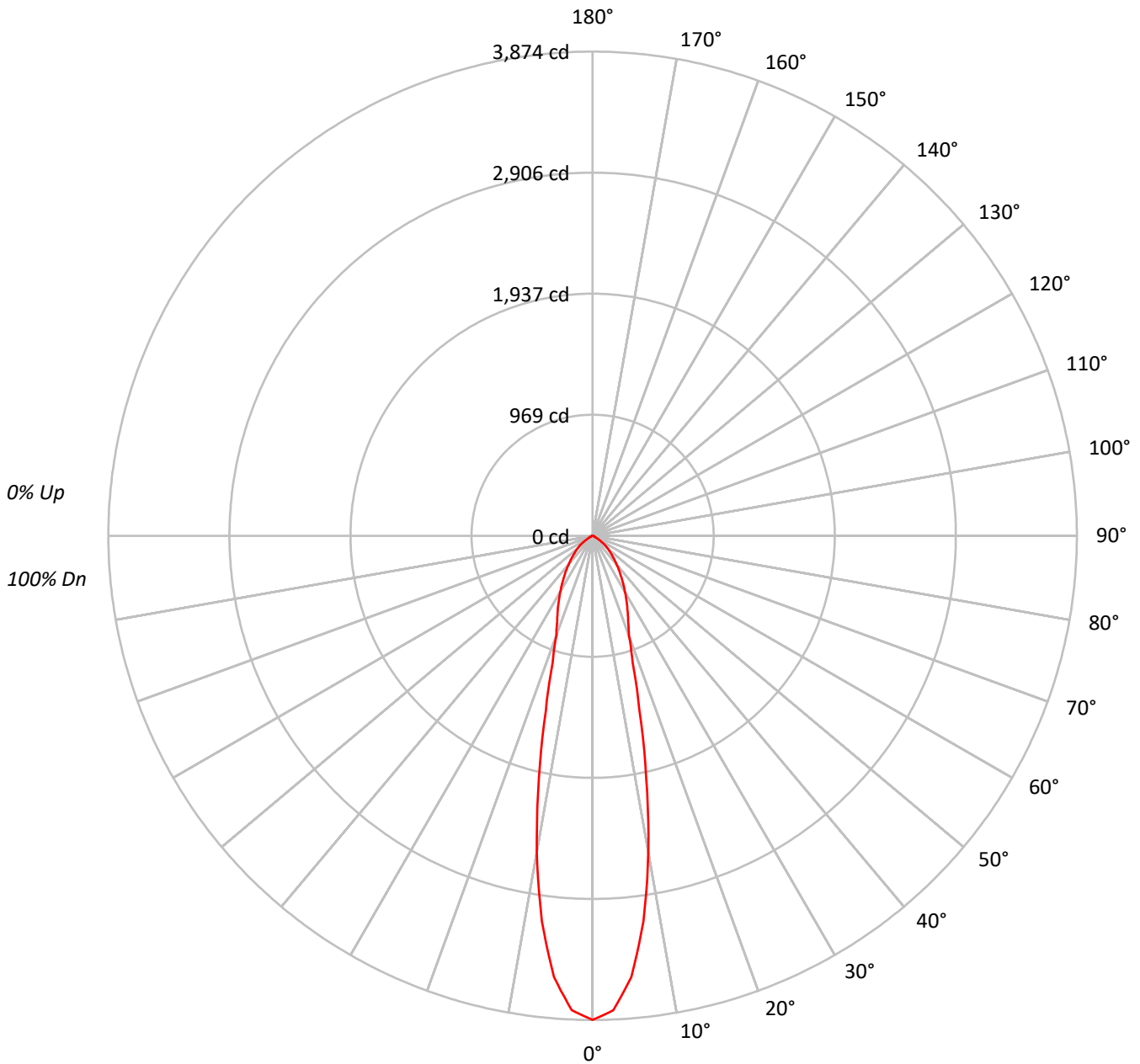
Input Watts (W): 13.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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			100																
1	113	110	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93			93																
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86			86																
3	102	95	90	86	100	94	89	85	91	87	84	89	85	83	87	84	81	80			80																
4	97	89	83	79	95	88	83	79	86	81	78	84	80	77	82	78	76	74			74																
5	92	83	77	73	90	82	77	73	81	76	72	79	75	71	77	74	71	69			69																
6	87	78	72	68	86	78	72	68	76	71	67	75	70	67	73	70	67	65			65																
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61			61																
8	80	70	64	60	78	70	64	60	69	63	60	68	63	60	67	62	59	58			58																
9	76	67	61	57	75	66	61	57	65	60	57	64	60	57	64	59	56	55			55																
10	73	64	58	54	72	63	58	54	62	57	54	62	57	54	61	57	54	52			52																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	212351
5°	195052
10°	142978
15°	82146
20°	49558
25°	39994
30°	32752
35°	26548
40°	21290
45°	16940
50°	13364
55°	9338
60°	4101
65°	2426
70°	1843
75°	1525
80°	1357
85°	1824

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16940 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.5	19.6
10°-20°	414.1	26.5
20°-30°	304.9	19.5
30°-40°	249.1	15.9
40°-50°	170.2	10.9
50°-60°	86.8	5.6
60°-70°	20.5	1.3
70°-80°	7.7	0.5
80°-90°	2.9	0.2
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°	1025.5	65.6
0°-40°	1274.7	81.6
0°-60°	1531.7	98.0
0°-90°	1562.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1562.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3874	
5°	3544	307
15°	1447	414
25°	661	305
35°	397	249
45°	218	170
55°	98	87
65°	19	21
75°	7	8
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3873.6
2.5°	3800.3
5°	3544.5
7.5°	3110.4
10°	2568.5
12.5°	1982.1
15°	1447.4
17.5°	1065.1
20°	849.5
22.5°	741.7
25°	661.2
27.5°	586.4
30°	517.4
32.5°	454.2
35°	396.7
37.5°	345.0
40°	297.5
42.5°	255.8
45°	218.5
47.5°	185.4
50°	156.7
52.5°	130.8
55°	97.7
57.5°	66.1
60°	37.4
62.5°	24.4
65°	18.7
67.5°	15.8
70°	11.5
72.5°	8.6
75°	7.2
77.5°	5.7
80°	4.3
82.5°	4.3
85°	2.9
87.5°	1.4
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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