

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P642689

Luminaire Tested: ML5615LSFL409FS1E - 696WB - 1200LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642689
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-46)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSFL409FS1E - 696WB - 1200LM - 4000K
Description: ML56 RR, 40D 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: 1659.2 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Spacing Criteria (0/90/45): 0.64 / 0.64 / 0.69
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

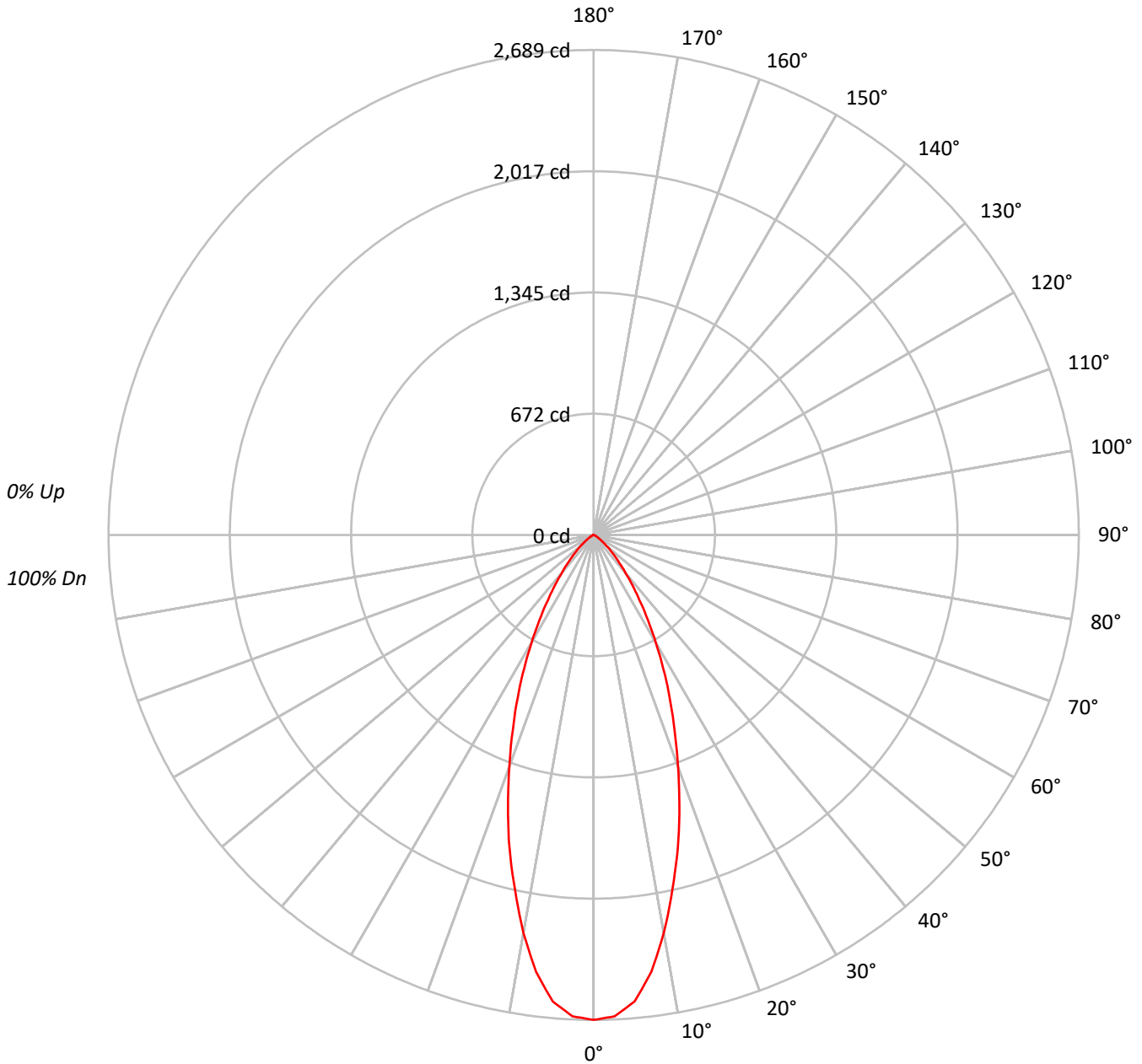
Input Watts (W): 13.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					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			100	
1	114	111	108	106	111	109	106	104	105	103	101	101	100	98	97	96	95	94			94	
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	93	91	89	87			87	
3	103	96	91	87	101	95	90	87	92	89	85	90	87	84	88	85	83	81			81	
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76			76	
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71			71	
6	88	80	74	70	87	79	73	69	77	72	69	76	72	68	75	71	68	66			66	
7	84	75	69	65	83	74	69	65	73	68	65	72	68	64	71	67	64	63			63	
8	80	71	65	61	79	70	65	61	69	64	61	68	64	61	67	63	60	59			59	
9	77	67	62	58	76	67	61	58	66	61	57	65	60	57	64	60	57	56			56	
10	73	64	58	55	72	64	58	55	63	58	54	62	57	54	61	57	54	53			53	

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	147400
5°	142901
10°	124714
15°	102276
20°	79731
25°	60330
30°	43481
35°	29814
40°	19537
45°	12699
50°	7479
55°	4119
60°	2368
65°	1310
70°	689
75°	297
80°	442
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12699 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.1	14.2
10°-20°	497.4	30.0
20°-30°	457.2	27.6
30°-40°	283.2	17.1
40°-50°	129.5	7.8
50°-60°	42.0	2.5
60°-70°	10.9	0.7
70°-80°	2.2	0.1
80°-90°	0.6	0.0
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°	1190.8	71.8
0°-40°	1473.9	88.8
0°-60°	1645.4	99.2
0°-90°	1659.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1659.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2689	
5°	2597	236
15°	1802	497
25°	997	457
35°	446	283
45°	164	130
55°	43	42
65°	10	11
75°	1	2
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2688.8
2.5°	2671.6
5°	2596.8
7.5°	2443.1
10°	2240.4
12.5°	2013.4
15°	1802.1
17.5°	1577.9
20°	1366.7
22.5°	1171.2
25°	997.4
27.5°	835.0
30°	686.9
32.5°	557.6
35°	445.5
37.5°	352.1
40°	273.0
42.5°	212.7
45°	163.8
47.5°	122.2
50°	87.7
52.5°	61.8
55°	43.1
57.5°	30.2
60°	21.6
62.5°	15.8
65°	10.1
67.5°	5.7
70°	4.3
72.5°	2.9
75°	1.4
77.5°	1.4
80°	1.4
82.5°	1.4
85°	0.0
87.5°	0.0
90°	0.0

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Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)