

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: P642570

Luminaire Tested: ML5615LSFL409FS1E - 692SC - 1200LM - 5000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642570
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-37)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSFL409FS1E - 692SC - 1200LM - 5000K
Description: ML56 RR, 40D TIR OPTIC, 6" SPECULAR CLEAR TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

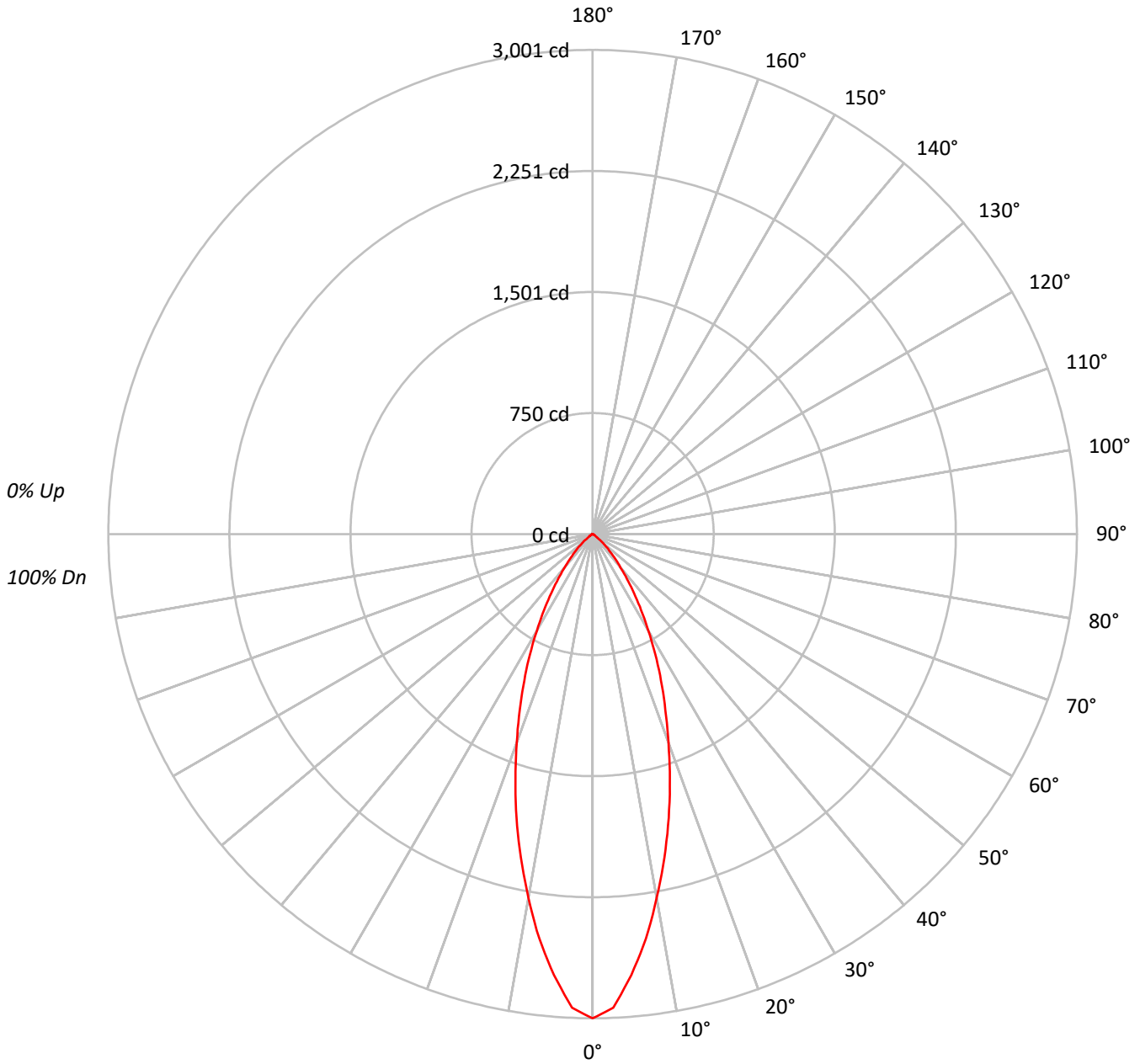
Lumens per Lamp: N/A
Luminaire Lumens: 1646.9 lumens
Efficiency: N/A
Efficacy: 122.9 lumens/watt
Spacing Criteria (0/90/45): 0.59 / 0.59 / 0.66
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94		
2	108	104	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88		
3	103	97	92	88	101	96	91	88	93	89	86	91	88	85	88	86	84	82		
4	98	91	86	82	96	90	85	81	88	83	80	86	82	79	84	81	78	77		
5	94	86	80	76	92	85	79	75	83	78	75	81	77	74	80	76	73	72		
6	89	81	75	71	88	80	74	71	78	74	70	77	73	70	76	72	69	68		
7	85	76	70	66	84	76	70	66	74	69	66	73	69	66	72	68	65	64		
8	81	72	66	62	80	72	66	62	71	66	62	69	65	62	69	65	62	60		
9	78	68	63	59	77	68	63	59	67	62	59	66	62	59	65	61	58	57		
10	74	65	60	56	73	65	59	56	64	59	56	63	59	56	62	58	55	54		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	164521
5°	150979
10°	127414
15°	103372
20°	80069
25°	60657
30°	43716
35°	29848
40°	19150
45°	11714
50°	6132
55°	2342
60°	1414
65°	558
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11714 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.9	15.1
10°-20°	503.7	30.6
20°-30°	459.8	27.9
30°-40°	282.7	17.2
40°-50°	121.4	7.4
50°-60°	26.8	1.6
60°-70°	4.7	0.3
70°-80°	0.0	0.0
80°-90°	0.0	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°	1211.3	73.6
0°-40°	1494.0	90.7
0°-60°	1642.2	99.7
0°-90°	1646.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1646.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3001	
5°	2744	248
15°	1821	504
25°	1003	460
35°	446	283
45°	151	121
55°	24	27
65°	4	5
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3001.1
2.5°	2937.8
5°	2743.6
7.5°	2530.6
10°	2288.9
12.5°	2053.0
15°	1821.4
17.5°	1589.7
20°	1372.5
22.5°	1178.3
25°	1002.8
27.5°	840.2
30°	690.6
32.5°	559.6
35°	446.0
37.5°	348.2
40°	267.6
42.5°	205.7
45°	151.1
47.5°	110.8
50°	71.9
52.5°	36.0
55°	24.5
57.5°	18.7
60°	12.9
62.5°	8.6
65°	4.3
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
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)