

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: P642682

Luminaire Tested: ML5615LSFL409FS1E - 694WB - 900LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642682
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-44)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSFL409FS1E - 694WB - 900LM - 3000K
Description: ML56 RR, 40D TIR OPTIC, 6" WHITE GIMBAL TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

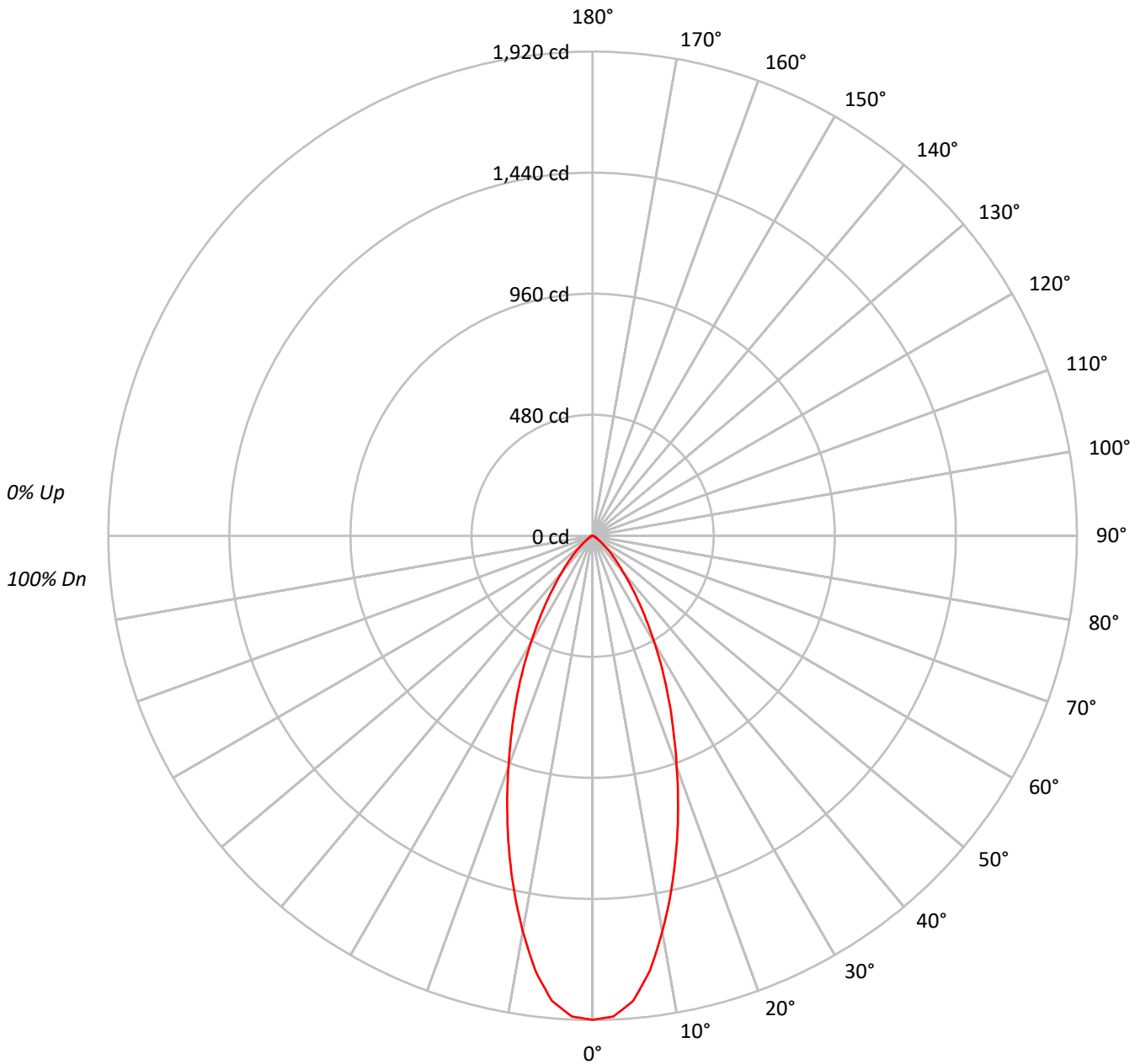
Lumens per Lamp: N/A
Luminaire Lumens: 1183.9 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Spacing Criteria (0/90/45): 0.64 / 0.64 / 0.69
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 10.5
Input Voltage (V): NR
Input Current (Ain): 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	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	93				
2	108	103	99	96	106	101	98	95	98	95	92	95	93	91	92	90	89	87				
3	103	96	91	87	101	95	90	87	92	88	85	90	87	84	87	85	83	81				
4	97	90	85	80	96	89	84	80	87	82	79	85	81	78	83	80	77	76				
5	93	84	79	74	91	84	78	74	82	77	73	80	76	73	79	75	72	71				
6	88	79	74	69	87	79	73	69	77	72	69	76	71	68	74	71	68	66				
7	84	75	69	65	83	74	69	65	73	68	64	72	67	64	71	67	64	62				
8	80	71	65	61	79	70	65	61	69	64	61	68	64	60	67	63	60	59				
9	77	67	61	58	76	67	61	57	66	61	57	65	60	57	64	60	57	56				
10	73	64	58	55	72	63	58	54	63	58	54	62	57	54	61	57	54	53				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	105238
5°	101849
10°	88653
15°	72810
20°	56839
25°	43121
30°	30998
35°	21067
40°	13547
45°	8776
50°	5092
55°	2848
60°	1919
65°	1336
70°	994
75°	868
80°	316
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8776 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.2	14.2
10°-20°	354.8	30.0
20°-30°	326.6	27.6
30°-40°	199.9	16.9
40°-50°	89.5	7.6
50°-60°	29.5	2.5
60°-70°	11.0	0.9
70°-80°	3.9	0.3
80°-90°	0.4	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°	849.6	71.8
0°-40°	1049.5	88.7
0°-60°	1168.5	98.7
0°-90°	1183.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1183.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1920	
5°	1851	168
15°	1283	355
25°	713	327
35°	315	200
45°	113	89
55°	30	30
65°	10	11
75°	4	4
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1919.7
2.5°	1907.4
5°	1850.8
7.5°	1739.7
10°	1592.6
12.5°	1440.3
15°	1282.9
17.5°	1126.5
20°	974.3
22.5°	836.4
25°	712.9
27.5°	597.7
30°	489.7
32.5°	395.1
35°	314.8
37.5°	246.9
40°	189.3
42.5°	148.1
45°	113.2
47.5°	83.3
50°	59.7
52.5°	42.2
55°	29.8
57.5°	22.6
60°	17.5
62.5°	14.4
65°	10.3
67.5°	8.2
70°	6.2
72.5°	5.1
75°	4.1
77.5°	2.1
80°	1.0
82.5°	1.0
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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