

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: P644054

Luminaire Tested: ML5615LSWFL559FS1E - 694WB - 1200LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P644054
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-67)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSWFL559FS1E - 694WB - 1200LM - 4000K
Description: ML56 RR, 55D TIR OPTIC, 6" WHITE GIMBAL TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

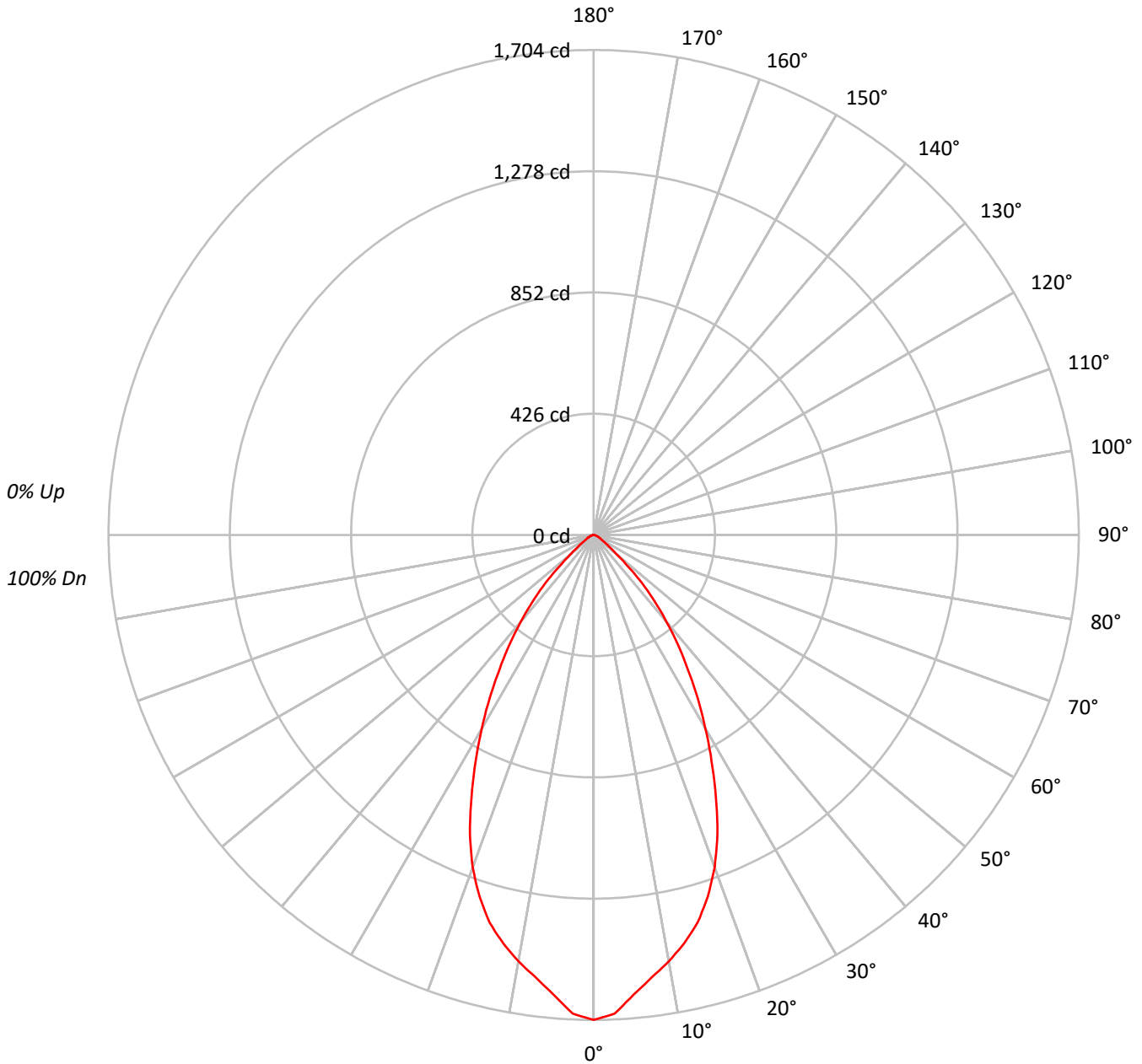
Lumens per Lamp: N/A
Luminaire Lumens: 1634.8 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92			92
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86	85			85
3	101	94	88	84	99	92	87	83	90	85	82	87	84	81	85	82	79	78			78
4	95	87	81	76	93	86	80	76	84	79	75	81	77	74	80	76	73	72			72
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66			66
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	63	61			61
7	80	70	64	59	79	70	63	59	68	63	59	67	62	58	66	61	58	57			57
8	76	66	59	55	75	65	59	55	64	59	55	63	58	54	62	58	54	53			53
9	72	62	56	51	71	61	55	51	60	55	51	59	54	51	59	54	51	49			49
10	69	58	52	48	68	58	52	48	57	51	48	56	51	48	55	51	47	46			46

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	93408
5°	89175
10°	84679
15°	80052
20°	72474
25°	61401
30°	49698
35°	38588
40°	28503
45°	18731
50°	9074
55°	4807
60°	3311
65°	2607
70°	2308
75°	1525
80°	916
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 18731 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.7	9.3
10°-20°	392.5	24.0
20°-30°	463.7	28.4
30°-40°	361.6	22.1
40°-50°	184.9	11.3
50°-60°	50.5	3.1
60°-70°	20.8	1.3
70°-80°	8.4	0.5
80°-90°	0.8	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°	1007.9	61.7
0°-40°	1369.6	83.8
0°-60°	1604.9	98.2
0°-90°	1634.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1634.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1704	
5°	1620	152
15°	1410	392
25°	1015	464
35°	577	362
45°	242	185
55°	50	50
65°	20	21
75°	7	8
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1703.9
2.5°	1683.7
5°	1620.5
7.5°	1567.3
10°	1521.2
12.5°	1469.5
15°	1410.5
17.5°	1332.9
20°	1242.3
22.5°	1135.9
25°	1015.1
27.5°	897.2
30°	785.1
32.5°	680.1
35°	576.6
37.5°	484.6
40°	398.3
42.5°	317.8
45°	241.6
47.5°	159.6
50°	106.4
52.5°	71.9
55°	50.3
57.5°	37.4
60°	30.2
62.5°	24.4
65°	20.1
67.5°	17.3
70°	14.4
72.5°	10.1
75°	7.2
77.5°	5.8
80°	2.9
82.5°	1.4
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)