

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: P644061

Luminaire Tested: ML5615LSWFL559FS1E - 694WB - 900LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P644061
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 - 900LM - 2700K
Description: ML56 RR, 55D TIR OPTIC, 6" WHITE GIMBAL TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

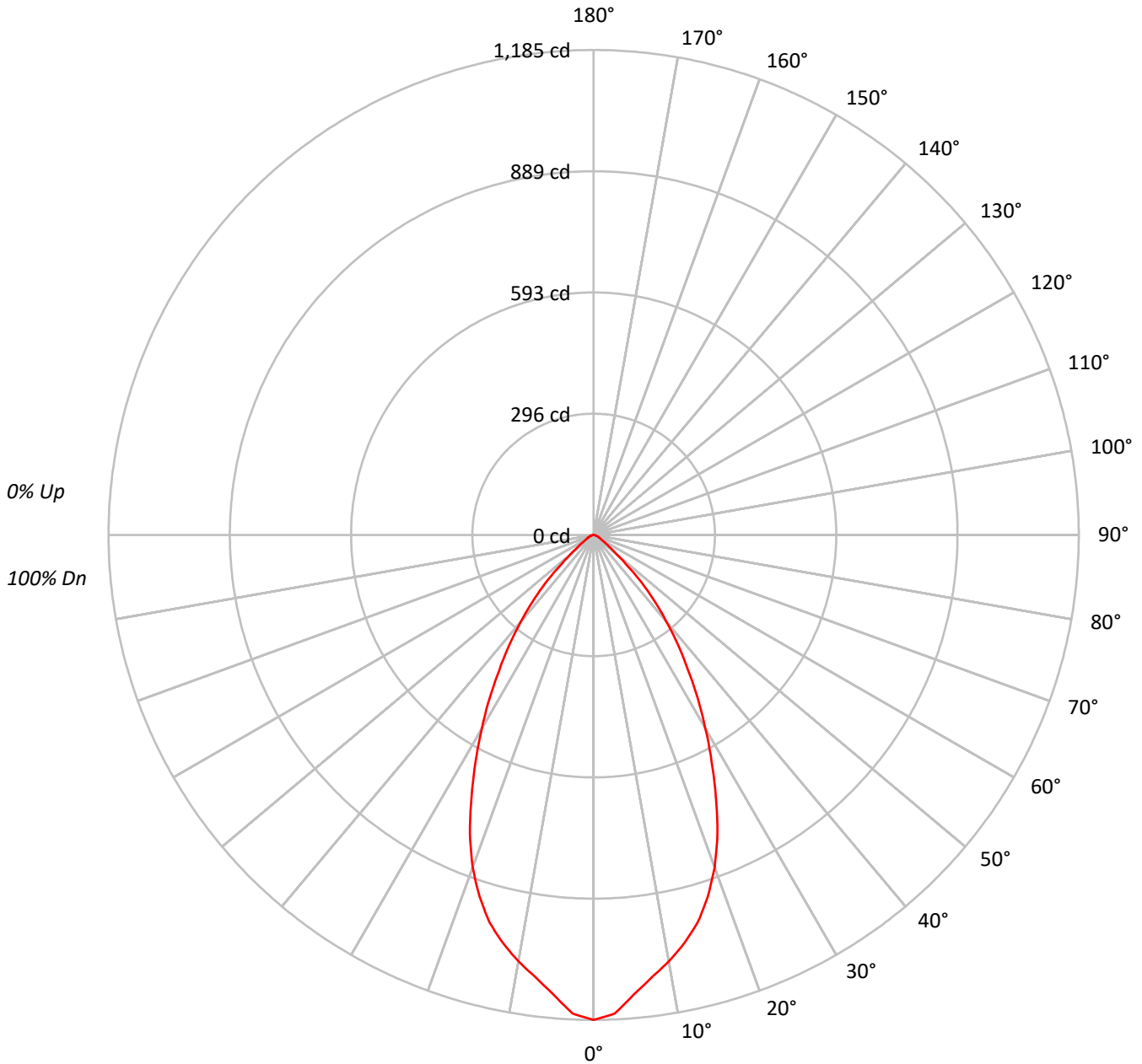
Lumens per Lamp: N/A
Luminaire Lumens: 1137.0 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 10.5
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	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°	64962
5°	62018
10°	58894
15°	55676
20°	50404
25°	42704
30°	34562
35°	26836
40°	19823
45°	13025
50°	6311
55°	3345
60°	2302
65°	1816
70°	1603
75°	1059
80°	631
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13025 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.5	9.3
10°-20°	273.0	24.0
20°-30°	322.5	28.4
30°-40°	251.5	22.1
40°-50°	128.6	11.3
50°-60°	35.1	3.1
60°-70°	14.4	1.3
70°-80°	5.8	0.5
80°-90°	0.5	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°	701.0	61.7
0°-40°	952.5	83.8
0°-60°	1116.2	98.2
0°-90°	1137.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1137.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1185	
5°	1127	106
15°	981	273
25°	706	323
35°	401	252
45°	168	129
55°	35	35
65°	14	14
75°	5	6
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1185
2.5°	1171
5°	1127
7.5°	1090
10°	1058
12.5°	1022
15°	981
17.5°	927
20°	864
22.5°	790
25°	706
27.5°	624
30°	546
32.5°	473
35°	401
37.5°	337
40°	277
42.5°	221
45°	168
47.5°	111
50°	74
52.5°	50
55°	35
57.5°	26
60°	21
62.5°	17
65°	14
67.5°	12
70°	10
72.5°	7
75°	5
77.5°	4
80°	2
82.5°	1
85°	0
87.5°	0
90°	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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