

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: P643911

Luminaire Tested: ML5615LSWFL559FS1E - 596WB - 900LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643911
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-58)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSWFL559FS1E - 596WB - 900LM - 2700K
Description: ML56 RR, 55D TIR OPTIC, 5" SHALLOW WHITE BAFFLE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

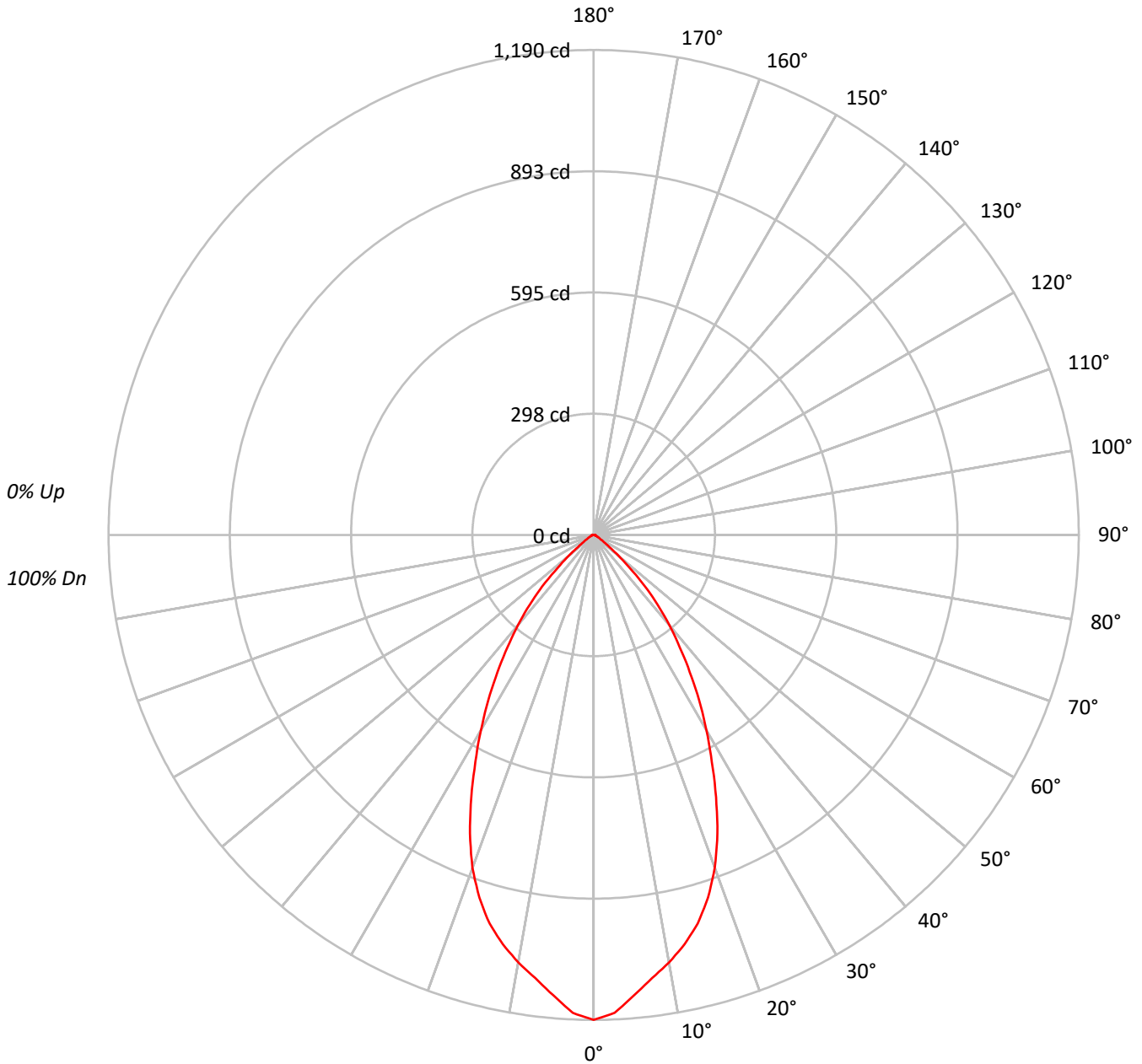
Lumens per Lamp: N/A
Luminaire Lumens: 1150.0 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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																			
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92																			
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86	85																			
3	101	94	88	84	99	92	87	83	90	85	82	87	84	81	85	82	79	78																			
4	95	87	81	76	93	86	80	76	84	79	75	81	77	74	80	76	73	72																			
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66																			
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	63	61																			
7	80	70	64	59	79	70	63	59	68	63	59	67	62	58	66	61	58	57																			
8	76	66	59	55	75	65	59	55	64	59	55	63	58	54	62	58	54	53																			
9	72	62	55	51	71	61	55	51	60	55	51	59	54	51	59	54	51	49																			
10	69	58	52	48	67	58	52	48	57	51	48	56	51	48	55	51	47	46																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	93940
5°	89861
10°	85369
15°	80663
20°	73002
25°	61842
30°	50408
35°	39608
40°	29781
45°	19872
50°	9579
55°	4267
60°	2684
65°	1868
70°	1385
75°	915
80°	1818
85°	2717

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 19872 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.1	9.2
10°-20°	274.7	23.9
20°-30°	324.5	28.2
30°-40°	257.5	22.4
40°-50°	135.7	11.8
50°-60°	33.0	2.9
60°-70°	10.5	0.9
70°-80°	4.8	0.4
80°-90°	3.3	0.3
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°	705.3	61.3
0°-40°	962.8	83.7
0°-60°	1131.5	98.4
0°-90°	1150.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1150.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1190	
5°	1134	106
15°	987	275
25°	710	325
35°	411	257
45°	178	136
55°	31	33
65°	10	10
75°	3	5
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1190
2.5°	1174
5°	1134
7.5°	1097
10°	1065
12.5°	1029
15°	987
17.5°	933
20°	869
22.5°	793
25°	710
27.5°	628
30°	553
32.5°	481
35°	411
37.5°	347
40°	289
42.5°	232
45°	178
47.5°	119
50°	78
52.5°	49
55°	31
57.5°	22
60°	17
62.5°	13
65°	10
67.5°	8
70°	6
72.5°	5
75°	3
77.5°	5
80°	4
82.5°	4
85°	3
87.5°	3
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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