

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: P643955

Luminaire Tested: ML5615LSWFL559FS1E - 692SC - 1500LM - 5000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643955
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-60)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSWFL559FS1E - 692SC - 1500LM - 5000K
Description: ML56 RR, 55D TIR OPTIC, 6" SPECULAR CLEAR TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

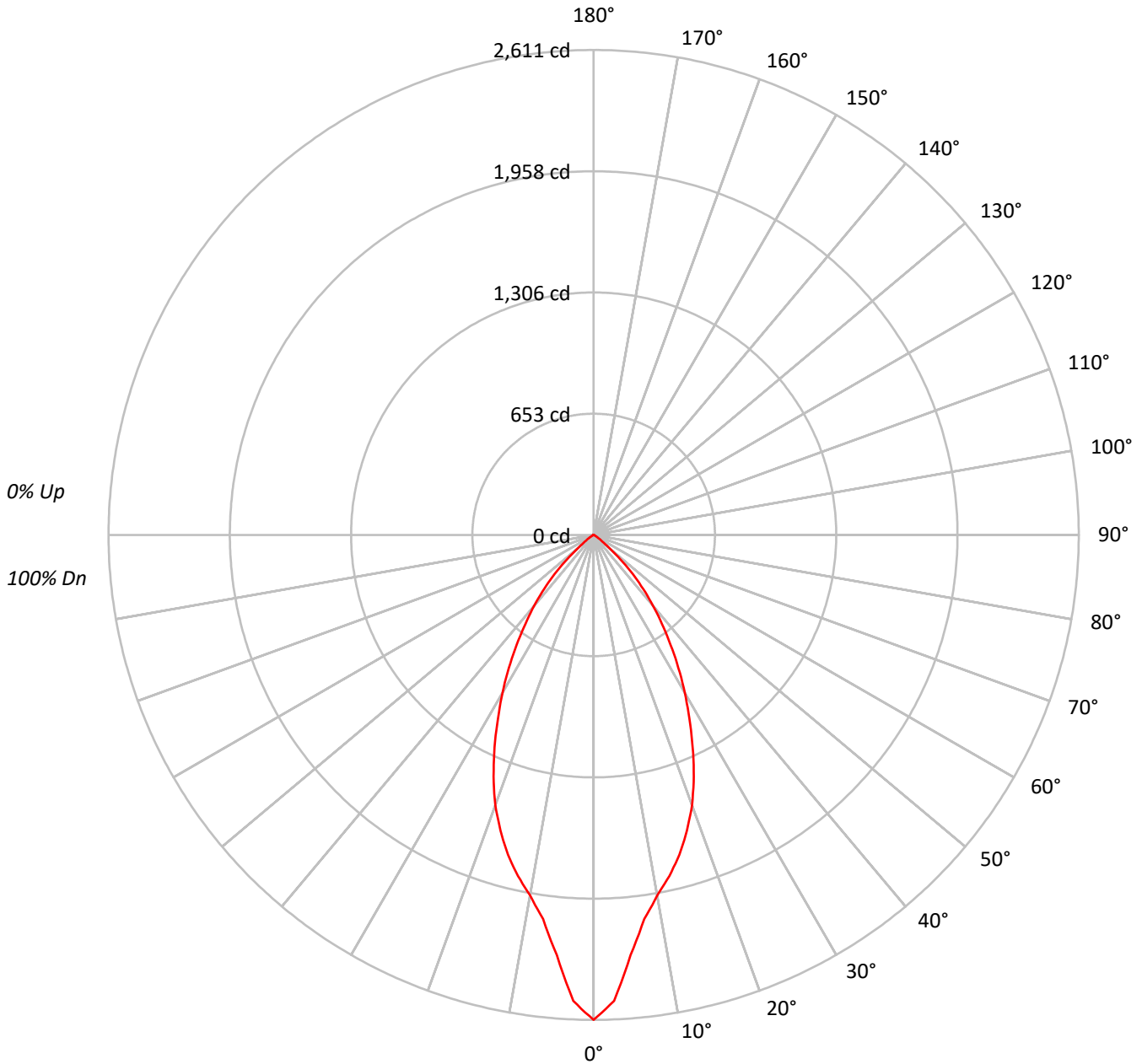
Lumens per Lamp: N/A
Luminaire Lumens: 2001.7 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Spacing Criteria (0/90/45): 0.71 / 0.71 / 0.81
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 17.1
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	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	108	106	111	108	106	104	104	102	101	101	99	98	97	96	95	93					93			
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86					86			
3	102	95	90	86	100	94	89	85	91	87	84	88	85	82	86	83	81	79					79			
4	96	88	83	78	94	87	82	78	85	80	77	83	79	76	81	78	75	73					73			
5	91	82	76	72	89	81	76	71	79	74	71	78	73	70	76	72	69	68					68			
6	86	77	71	66	85	76	70	66	74	69	65	73	68	65	72	68	64	63					63			
7	82	72	66	61	80	71	65	61	70	65	61	69	64	60	68	63	60	59					59			
8	77	67	61	57	76	67	61	57	66	60	57	65	60	56	64	59	56	55					55			
9	74	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	51					51			
10	70	60	54	50	69	59	54	50	59	53	50	58	53	49	57	53	49	48					48			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	143135
5°	124994
10°	109695
15°	101198
20°	90296
25°	76293
30°	62035
35°	48298
40°	35574
45°	23041
50°	9501
55°	3546
60°	1557
65°	454
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 23041 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.8	10.4
10°-20°	496.4	24.8
20°-30°	576.3	28.8
30°-40°	451.5	22.6
40°-50°	226.0	11.3
50°-60°	39.9	2.0
60°-70°	3.9	0.2
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°	1280.5	64.0
0°-40°	1732.0	86.5
0°-60°	1997.9	99.8
0°-90°	2001.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2001.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2611	
5°	2271	208
15°	1783	496
25°	1261	576
35°	722	451
45°	297	226
55°	37	40
65°	4	4
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2611.0
2.5°	2511.9
5°	2271.4
7.5°	2085.6
10°	1970.6
12.5°	1880.4
15°	1783.1
17.5°	1668.1
20°	1547.8
22.5°	1408.1
25°	1261.3
27.5°	1114.5
30°	980.0
32.5°	849.1
35°	721.7
37.5°	603.2
40°	497.1
42.5°	394.5
45°	297.2
47.5°	192.8
50°	111.4
52.5°	58.4
55°	37.1
57.5°	23.0
60°	14.2
62.5°	5.3
65°	3.5
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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