

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: P643972

Luminaire Tested: ML5615LSWFL559FS1E - 692W - 900LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643972
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-62)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSWFL559FS1E - 692W - 900LM - 3000K
Description: ML56 RR, 55D TIR OPTIC, 6" WHITE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

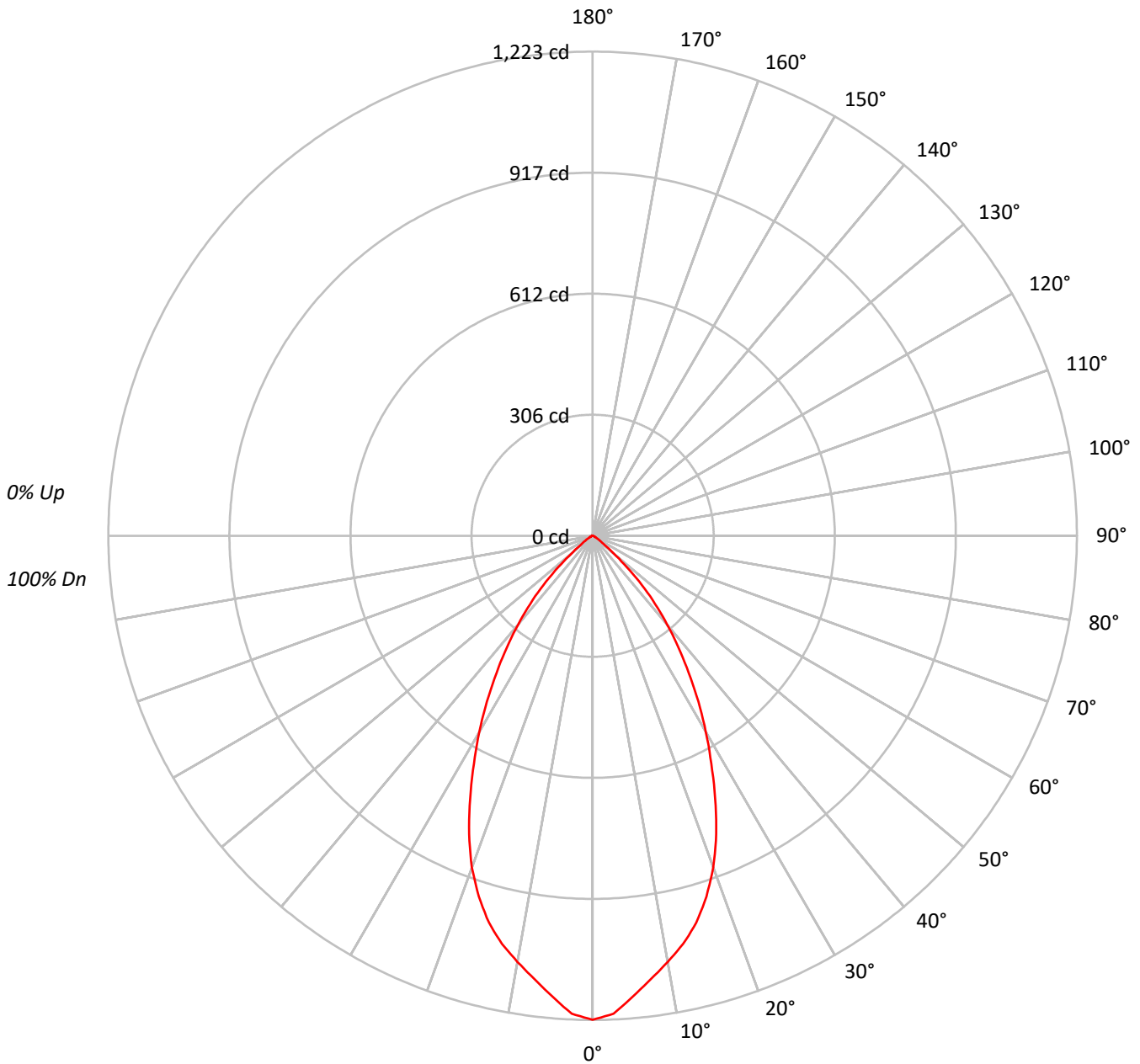
Lumens per Lamp: N/A
Luminaire Lumens: 1162.3 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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																			
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93																			
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85																			
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	79																			
4	96	88	82	77	94	86	81	77	84	79	76	82	78	75	80	77	74	72																			
5	90	81	75	71	89	80	75	70	79	73	70	77	72	69	75	71	68	67																			
6	85	76	70	65	84	75	69	65	74	68	64	72	67	64	71	67	63	62																			
7	81	71	65	60	79	70	64	60	69	63	60	68	63	59	67	62	59	57																			
8	77	66	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53																			
9	73	62	56	52	71	62	56	52	61	55	52	60	55	51	59	55	51	50																			
10	69	59	53	49	68	58	52	48	57	52	48	57	52	48	56	51	48	47																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	67023
5°	64280
10°	60843
15°	57424
20°	52009
25°	44283
30°	36189
35°	28282
40°	20975
45°	13715
50°	5876
55°	2456
60°	1349
65°	804
70°	657
75°	657
80°	663
85°	629

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13715 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.2	9.4
10°-20°	281.6	24.2
20°-30°	334.4	28.8
30°-40°	264.7	22.8
40°-50°	134.6	11.6
50°-60°	27.4	2.4
60°-70°	6.6	0.6
70°-80°	3.0	0.3
80°-90°	0.8	0.1
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°	725.2	62.4
0°-40°	990.0	85.2
0°-60°	1151.9	99.1
0°-90°	1162.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1162.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1223	
5°	1168	109
15°	1012	282
25°	732	334
35°	423	265
45°	177	135
55°	26	27
65°	6	7
75°	3	3
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1222.6
2.5°	1208.2
5°	1168.1
7.5°	1129.0
10°	1093.0
12.5°	1056.0
15°	1011.8
17.5°	955.3
20°	891.5
22.5°	815.4
25°	732.1
27.5°	648.8
30°	571.7
32.5°	496.7
35°	422.6
37.5°	355.8
40°	293.1
42.5°	233.4
45°	176.9
47.5°	116.2
50°	68.9
52.5°	39.1
55°	25.7
57.5°	18.5
60°	12.3
62.5°	8.2
65°	6.2
67.5°	4.1
70°	4.1
72.5°	3.1
75°	3.1
77.5°	2.1
80°	2.1
82.5°	1.0
85°	1.0
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)