

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: P643961

Luminaire Tested: ML5615LSWFL559FS1E - 692W - 1200LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643961
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 - 1200LM - 2700K
Description: ML56 RR, 55D TIR OPTIC, 6" WHITE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

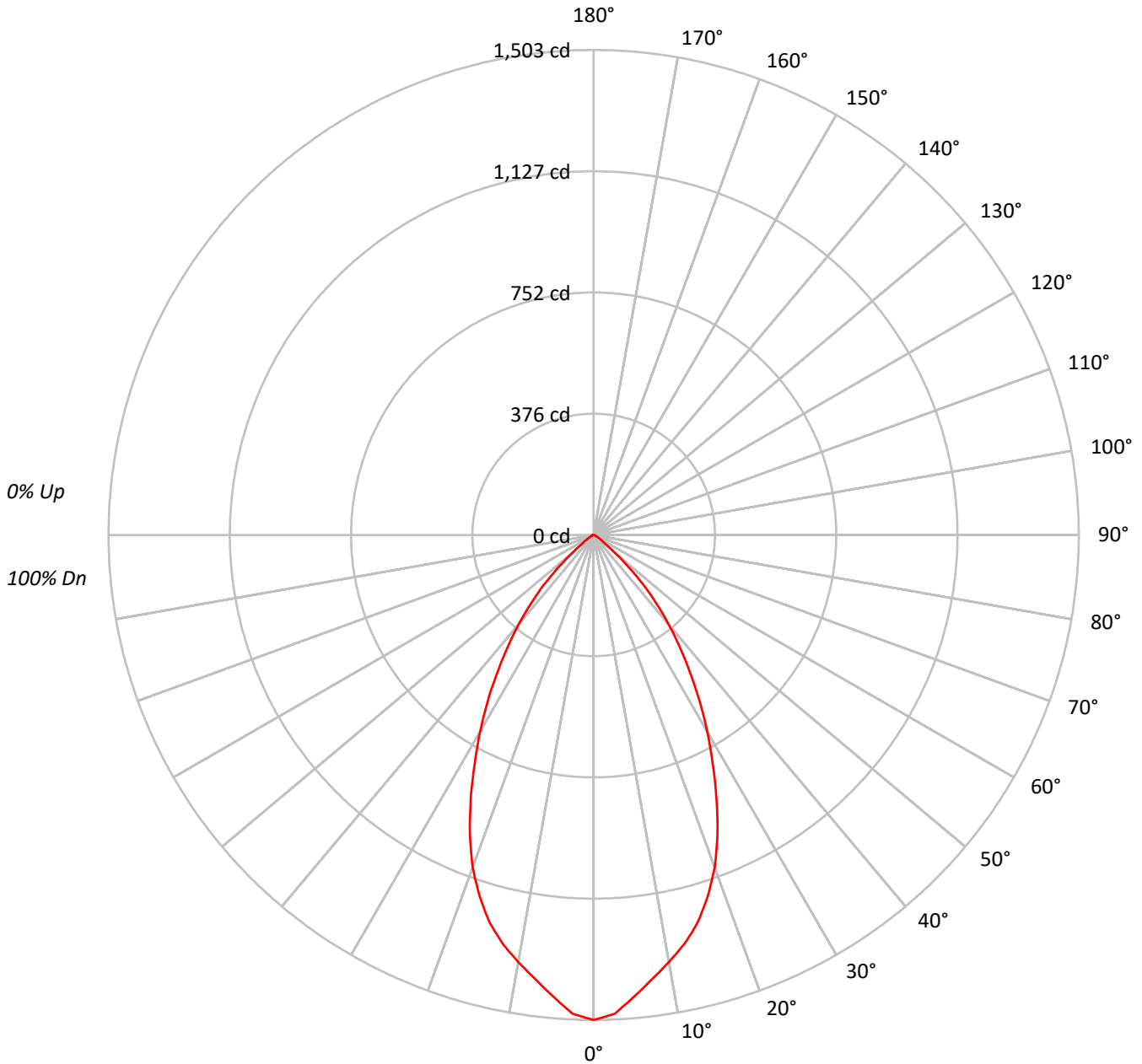
Lumens per Lamp: N/A
Luminaire Lumens: 1429.2 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 13.4
Input Voltage (V): NR
Input Current (Ain): 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	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93			93																
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85			85																
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	79			79																
4	96	88	82	77	94	86	81	77	84	79	76	82	78	75	80	77	74	72			72																
5	90	81	75	71	89	80	75	70	79	73	70	77	72	69	75	71	68	67			67																
6	85	76	70	65	84	75	69	65	74	68	64	72	67	64	71	67	63	62			62																
7	81	71	65	60	79	70	64	60	69	63	60	68	63	59	67	62	59	57			57																
8	77	66	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53			53																
9	73	62	56	52	71	62	56	52	61	55	52	60	55	51	59	55	51	50			50																
10	69	59	53	49	68	58	52	48	57	52	48	57	52	48	56	51	48	47			47																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	82411
5°	79039
10°	74815
15°	70608
20°	63951
25°	54451
30°	44501
35°	34780
40°	25784
45°	16862
50°	7224
55°	3020
60°	1667
65°	986
70°	817
75°	805
80°	789
85°	818

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16862 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.3	9.4
10°-20°	346.3	24.2
20°-30°	411.2	28.8
30°-40°	325.5	22.8
40°-50°	165.5	11.6
50°-60°	33.6	2.4
60°-70°	8.1	0.6
70°-80°	3.7	0.3
80°-90°	1.0	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°	891.8	62.4
0°-40°	1217.3	85.2
0°-60°	1416.4	99.1
0°-90°	1429.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1429.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1503	
5°	1436	134
15°	1244	346
25°	900	411
35°	520	326
45°	218	165
55°	32	34
65°	8	8
75°	4	4
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1503.3
2.5°	1485.6
5°	1436.3
7.5°	1388.3
10°	1344.0
12.5°	1298.5
15°	1244.1
17.5°	1174.6
20°	1096.2
22.5°	1002.7
25°	900.2
27.5°	797.8
30°	703.0
32.5°	610.7
35°	519.7
37.5°	437.5
40°	360.3
42.5°	287.0
45°	217.5
47.5°	142.9
50°	84.7
52.5°	48.0
55°	31.6
57.5°	22.8
60°	15.2
62.5°	10.1
65°	7.6
67.5°	5.1
70°	5.1
72.5°	3.8
75°	3.8
77.5°	2.5
80°	2.5
82.5°	1.3
85°	1.3
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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