

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: P643283

Luminaire Tested: ML5615LSVWFL759FS1E - 692W - 900LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643283
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-85)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSVWFL759FS1E - 692W - 900LM - 3500K
Description: ML56 RR, 75D TIR OPTIC, 6" WHITE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

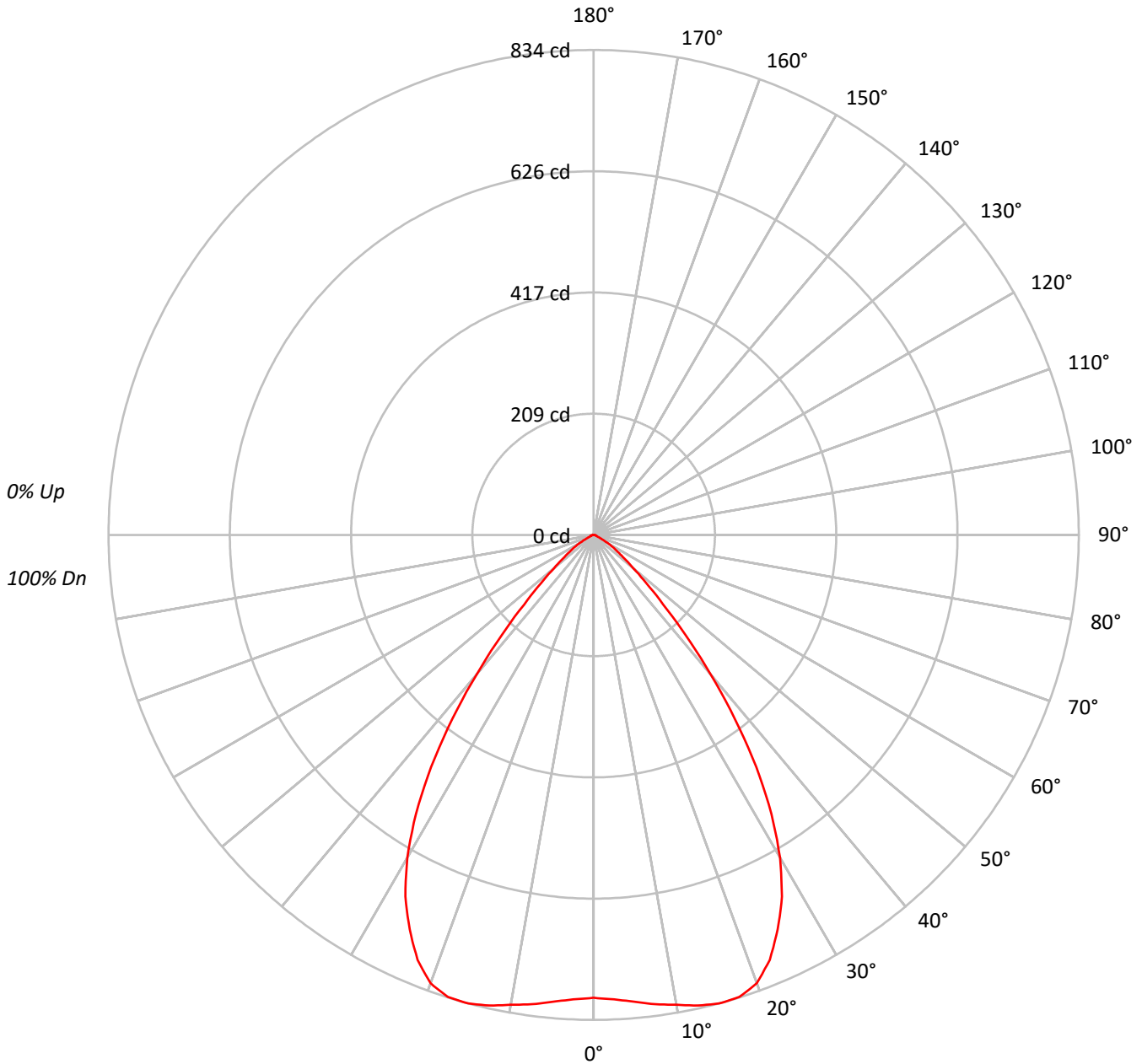
Lumens per Lamp: N/A
Luminaire Lumens: 1155.9 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.09
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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



TEST NUMBER: P643283
CATALOG NUMBER: ML5615LSVWFL759FS1E - 692W - 900LM - 3500K

Luminous Intensity Polar Plot





TEST NUMBER: P643283

CATALOG NUMBER: ML5615LSVWFL759FS1E - 692W - 900LM - 3500K

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	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92			92																
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	84			84																
3	100	93	87	83	98	91	86	82	89	84	81	86	82	79	84	81	78	76			76																
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70			70																
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64			64																
6	83	73	66	62	82	72	66	61	71	65	61	69	64	61	68	64	60	58			58																
7	78	68	61	56	77	67	61	56	66	60	56	65	60	56	63	59	55	54			54																
8	74	63	57	52	73	63	56	52	62	56	52	60	55	51	59	55	51	50			50																
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	47	46			46																
10	66	55	49	45	65	55	49	45	54	48	44	53	48	44	52	48	44	43			43																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	43642
5°	44337
10°	45674
15°	47344
20°	47867
25°	45281
30°	40557
35°	32618
40°	22399
45°	13118
50°	7573
55°	4855
60°	2895
65°	1375
70°	850
75°	890
80°	663
85°	692

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13118 cd/sqm



TEST NUMBER: P643283

CATALOG NUMBER: ML5615LSVWFL759FS1E - 692W - 900LM - 3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.4	6.7
10°-20°	235.1	20.3
20°-30°	341.4	29.5
30°-40°	299.3	25.9
40°-50°	138.3	12.0
50°-60°	47.1	4.1
60°-70°	11.9	1.0
70°-80°	4.3	0.4
80°-90°	1.2	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°	653.9	56.6
0°-40°	953.2	82.5
0°-60°	1138.5	98.5
0°-90°	1155.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1155.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	796	
5°	806	77
15°	834	235
25°	749	341
35°	487	299
45°	169	138
55°	51	47
65°	11	12
75°	4	4
85°	1	1
90°	0	



TEST NUMBER: P643283

CATALOG NUMBER: ML5615LSVWFL759FS1E - 692W - 900LM - 3500K

CANDELA DISTRIBUTION (FULL):

	0°
0°	796.1
2.5°	799.3
5°	805.7
7.5°	814.1
10°	820.5
12.5°	828.9
15°	834.2
17.5°	833.2
20°	820.5
22.5°	790.9
25°	748.6
27.5°	701.0
30°	640.7
32.5°	568.8
35°	487.4
37.5°	398.6
40°	313.0
42.5°	233.7
45°	169.2
47.5°	122.6
50°	88.8
52.5°	65.6
55°	50.8
57.5°	38.1
60°	26.4
62.5°	15.9
65°	10.6
67.5°	6.3
70°	5.3
72.5°	5.3
75°	4.2
77.5°	3.2
80°	2.1
82.5°	2.1
85°	1.1
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

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



— 0°-180°

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)