

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: P643096

Luminaire Tested: ML5615LSVWFL759FS1E - 592W - 1500LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643096
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-73)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSVWFL759FS1E - 592W - 1500LM - 2700K
Description: ML56 RR, 75D TIR OPTIC, 5" WHITE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

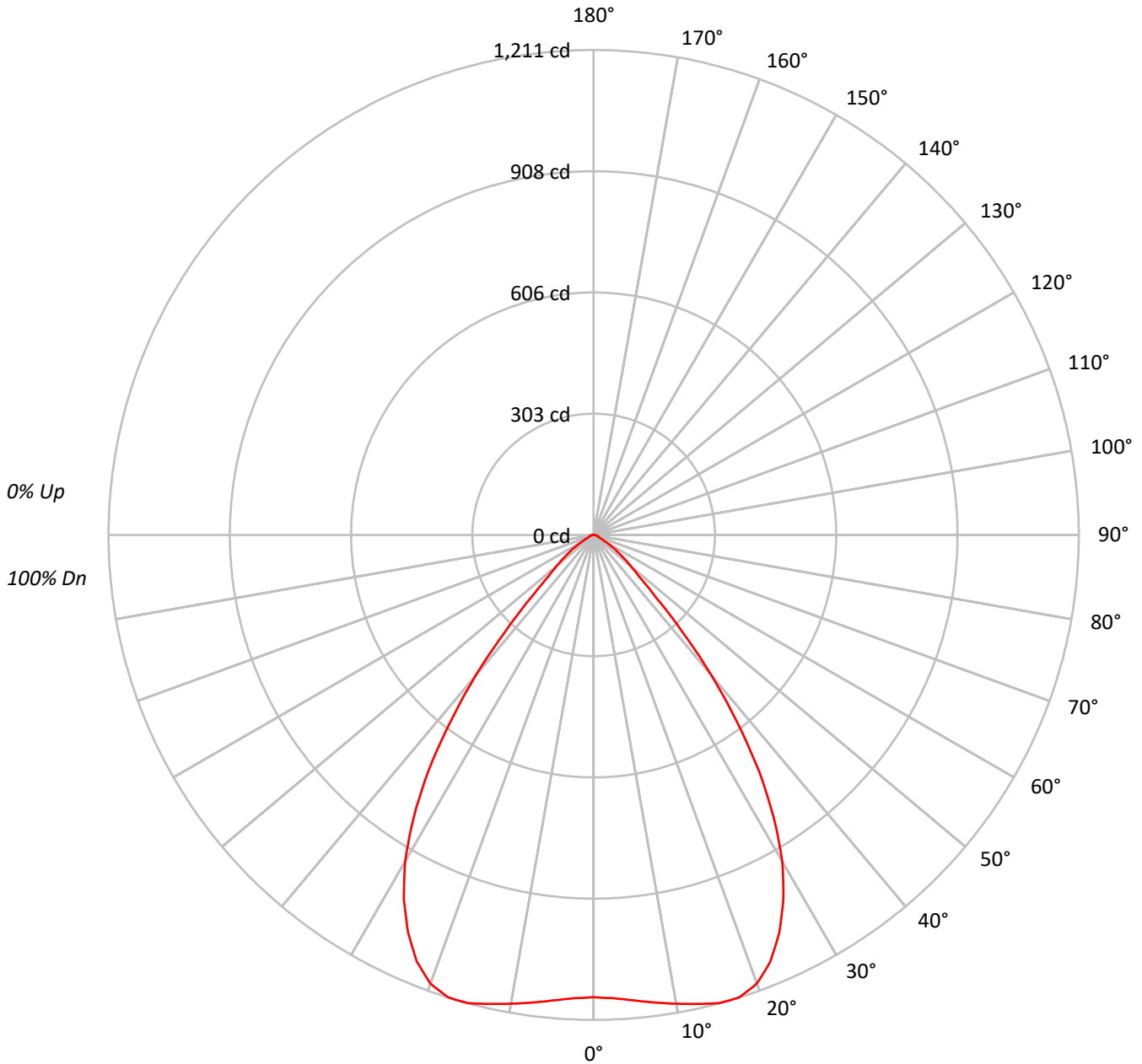
Lumens per Lamp: N/A
Luminaire Lumens: 1676.2 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.09
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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									
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	99	100	98	96	96	95	94	92				92															
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	87	85	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	57	77	67	61	56	66	60	56	65	60	56	64	59	55	54				54															
8	74	63	57	52	73	63	56	52	62	56	52	61	55	51	59	55	51	50				50															
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	48	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°	91145
5°	92484
10°	95293
15°	98937
20°	100128
25°	95429
30°	85839
35°	69338
40°	47084
45°	24460
50°	14885
55°	9840
60°	5147
65°	2895
70°	2862
75°	2837
80°	2819
85°	2808

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 24460 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.1	6.7
10°-20°	341.1	20.4
20°-30°	498.9	29.8
30°-40°	440.1	26.3
40°-50°	187.2	11.2
50°-60°	65.0	3.9
60°-70°	18.6	1.1
70°-80°	9.8	0.6
80°-90°	3.4	0.2
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°	952.1	56.8
0°-40°	1392.3	83.1
0°-60°	1644.4	98.1
0°-90°	1676.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1676.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1155	
5°	1167	112
15°	1211	341
25°	1096	499
35°	720	440
45°	219	187
55°	72	65
65°	16	19
75°	9	10
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1154.6
2.5°	1157.8
5°	1167.1
7.5°	1178.0
10°	1188.8
12.5°	1199.7
15°	1210.6
17.5°	1210.6
20°	1191.9
22.5°	1153.1
25°	1095.6
27.5°	1025.7
30°	941.7
32.5°	836.1
35°	719.5
37.5°	585.9
40°	456.9
42.5°	324.8
45°	219.1
47.5°	152.3
50°	121.2
52.5°	93.2
55°	71.5
57.5°	51.3
60°	32.6
62.5°	23.3
65°	15.5
67.5°	14.0
70°	12.4
72.5°	10.9
75°	9.3
77.5°	7.8
80°	6.2
82.5°	4.7
85°	3.1
87.5°	1.6
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)