

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: P643430

Luminaire Tested: ML5615LSVWFL9FS1E - 592SC - 1500LM - 5000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643430
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-94)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSVWFL9FS1E - 592SC - 1500LM - 5000K
Description: ML56 RR, MILKY OPTIC, 5" SPECULAR CLEAR TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

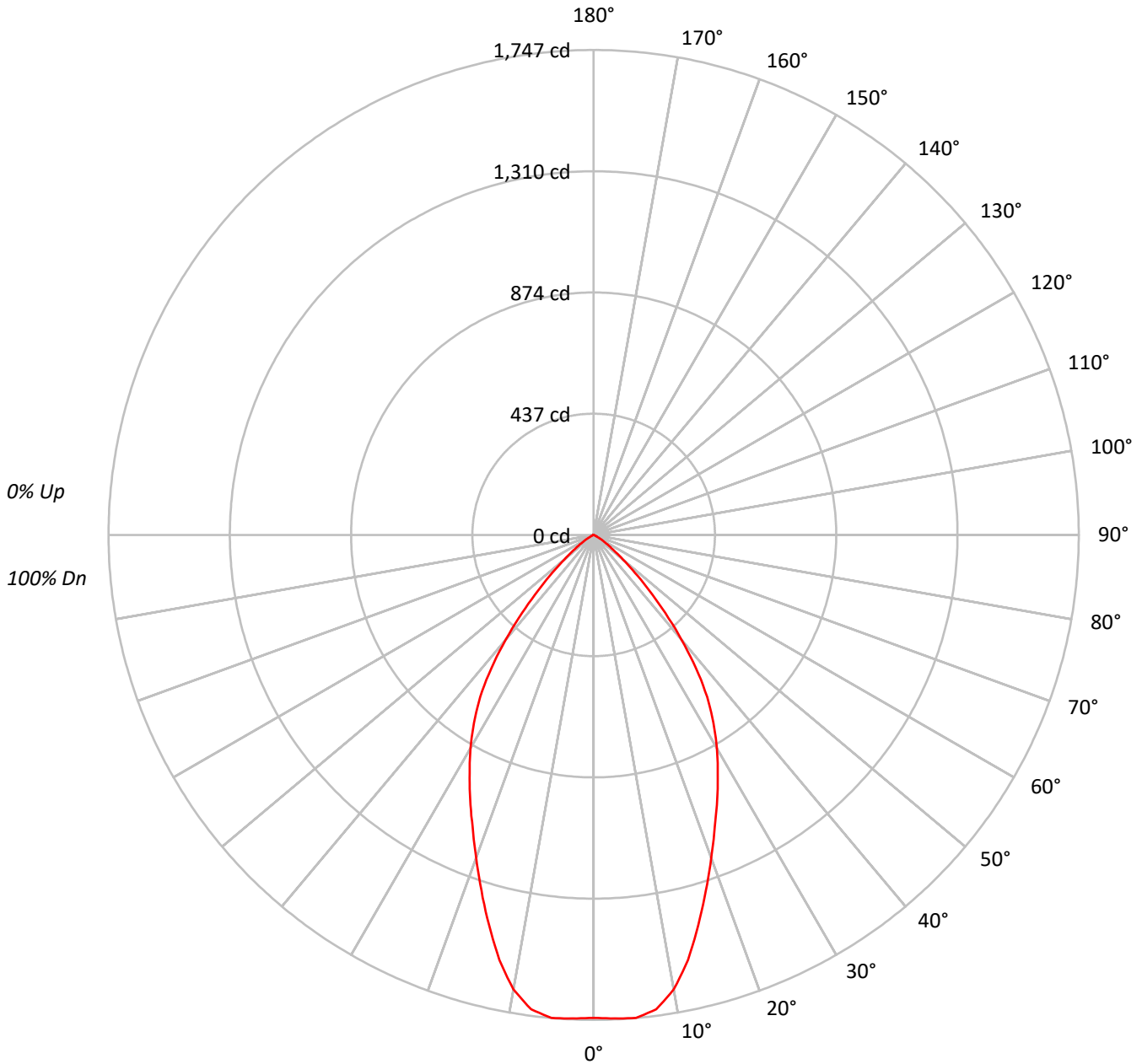
Lumens per Lamp: N/A
Luminaire Lumens: 1787.8 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.95
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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	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	107	105	111	108	106	103	104	102	100	100	99	97	97	95	94	93																											
2	107	102	97	94	105	100	96	92	97	93	90	94	91	88	91	89	87	85																											
3	101	94	88	84	99	92	87	83	90	86	82	87	84	81	85	82	79	78																											
4	95	87	81	76	93	86	80	76	83	79	75	81	77	74	79	76	73	71																											
5	90	81	74	69	88	80	74	69	78	73	69	76	71	68	74	70	67	66																											
6	85	75	68	64	83	74	68	64	73	67	63	71	66	63	70	65	62	61																											
7	80	70	63	59	79	69	63	59	68	62	58	67	62	58	65	61	58	56																											
8	76	65	59	54	74	65	59	54	64	58	54	63	57	54	62	57	54	52																											
9	72	61	55	51	70	61	55	50	60	54	50	59	54	50	58	53	50	48																											
10	68	58	51	47	67	57	51	47	56	51	47	55	50	47	55	50	47	45																											

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	137349
5°	138437
10°	133232
15°	118927
20°	103976
25°	91640
30°	80908
35°	68673
40°	50659
45°	31382
50°	16936
55°	8519
60°	3915
65°	1644
70°	808
75°	549
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 31382 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.1	9.2
10°-20°	406.0	22.7
20°-30°	483.7	27.1
30°-40°	436.7	24.4
40°-50°	224.6	12.6
50°-60°	60.9	3.4
60°-70°	9.9	0.6
70°-80°	1.9	0.1
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°	1053.8	58.9
0°-40°	1490.5	83.4
0°-60°	1776.0	99.3
0°-90°	1787.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1787.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1740	
5°	1747	164
15°	1455	406
25°	1052	484
35°	713	437
45°	281	225
55°	62	61
65°	9	10
75°	2	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1739.9
2.5°	1743.4
5°	1747.0
7.5°	1724.0
10°	1662.1
12.5°	1568.4
15°	1455.2
17.5°	1343.8
20°	1237.7
22.5°	1138.7
25°	1052.1
27.5°	967.2
30°	887.6
32.5°	802.7
35°	712.6
37.5°	606.5
40°	491.6
42.5°	381.9
45°	281.1
47.5°	201.6
50°	137.9
52.5°	91.9
55°	61.9
57.5°	40.7
60°	24.8
62.5°	14.1
65°	8.8
67.5°	3.5
70°	3.5
72.5°	1.8
75°	1.8
77.5°	1.8
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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