

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: P643545

Luminaire Tested: ML5615LSVWFL9FS1E - 594WB - 1200LM - 5000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643545
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-101)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSVWFL9FS1E - 594WB - 1200LM - 5000K
Description: ML56 RR, MILKY OPTIC, 5" WHITE GIMBAL TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

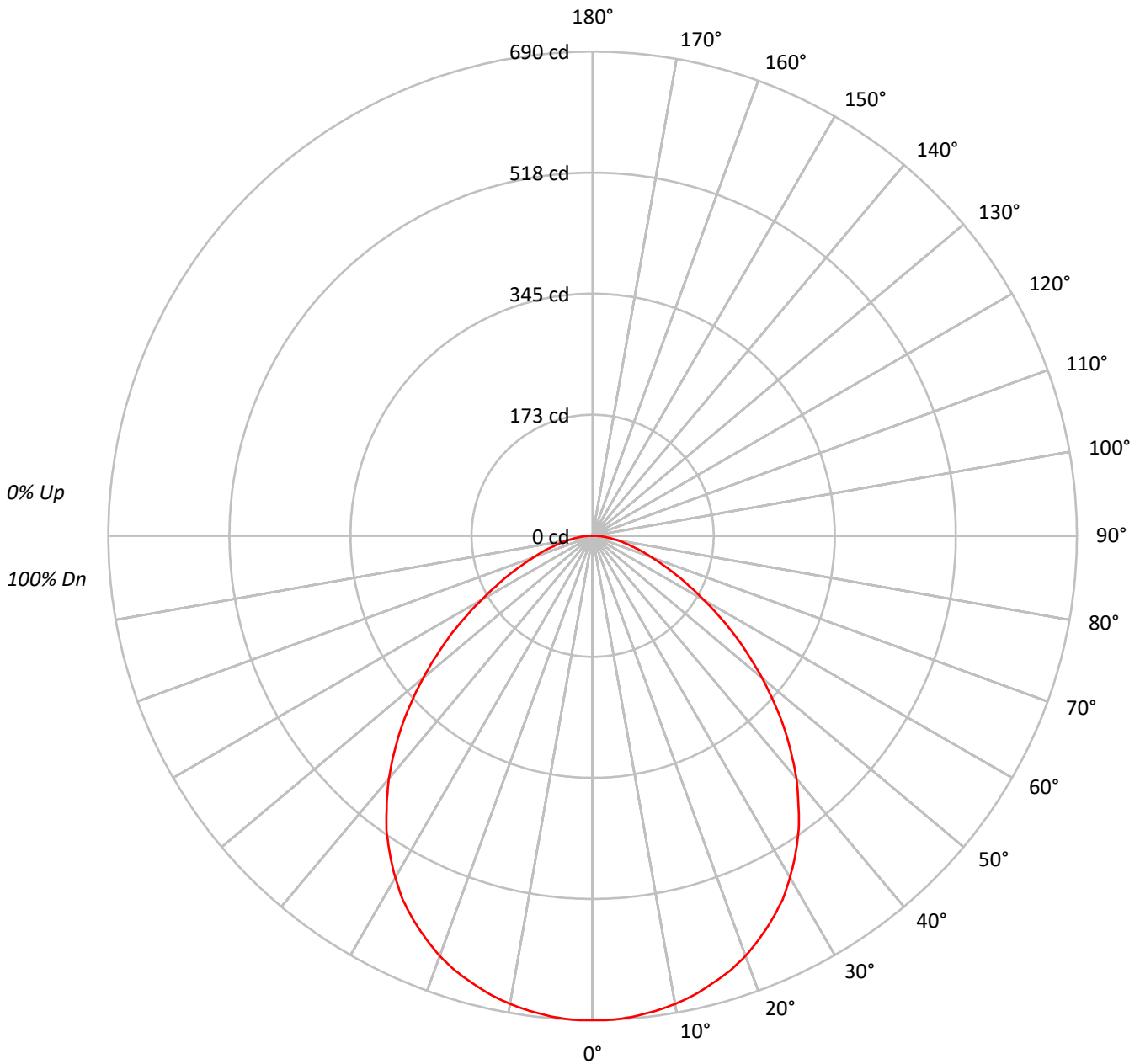
Lumens per Lamp: N/A
Luminaire Lumens: 1577.9 lumens
Efficiency: N/A
Efficacy: 117.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.28
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 13.4
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					20	
RC	80					70					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	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86			86	
2	101	94	88	82	99	92	86	82	88	84	80	85	81	78	82	79	76	74			74	
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	70	66	64			64	
4	86	75	67	60	84	73	66	60	71	64	59	69	63	58	67	62	58	56			56	
5	79	67	59	53	77	66	58	53	64	57	52	62	56	51	60	55	51	49			49	
6	74	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43			43	
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39			39	
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35			35	
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	37	33	31			31	
10	56	43	36	31	55	43	36	31	42	35	31	41	35	31	40	34	30	29			29	

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	54501
5°	54479
10°	54300
15°	53955
20°	53521
25°	52618
30°	51265
35°	49341
40°	46537
45°	43026
50°	38685
55°	34049
60°	28845
65°	24451
70°	20588
75°	17538
80°	15684
85°	14311

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 43026 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.3	4.1
10°-20°	186.3	11.8
20°-30°	277.9	17.6
30°-40°	318.8	20.2
40°-50°	296.1	18.8
50°-60°	221.1	14.0
60°-70°	130.9	8.3
70°-80°	62.9	4.0
80°-90°	18.4	1.2
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°	529.6	33.6
0°-40°	848.4	53.8
0°-60°	1365.6	86.5
0°-90°	1577.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1577.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	690	
5°	688	65
15°	660	186
25°	604	278
35°	512	319
45°	385	296
55°	247	221
65°	131	131
75°	58	63
85°	16	18
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	690.4
2.5°	690.4
5°	687.5
7.5°	683.2
10°	677.4
12.5°	670.2
15°	660.2
17.5°	650.1
20°	637.1
22.5°	621.3
25°	604.1
27.5°	585.4
30°	562.4
32.5°	537.9
35°	512.0
37.5°	481.8
40°	451.6
42.5°	418.5
45°	385.4
47.5°	349.5
50°	315.0
52.5°	280.5
55°	247.4
57.5°	214.3
60°	182.7
62.5°	155.3
65°	130.9
67.5°	107.9
70°	89.2
72.5°	73.4
75°	57.5
77.5°	46.0
80°	34.5
82.5°	24.5
85°	15.8
87.5°	10.1
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)