

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: P643541

Luminaire Tested: ML5615LSVWFL9FS1E - 594WB - 1200LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643541
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 - 2700K
Description: ML56 RR, MILKY OPTIC, 5" WHITE GIMBAL TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

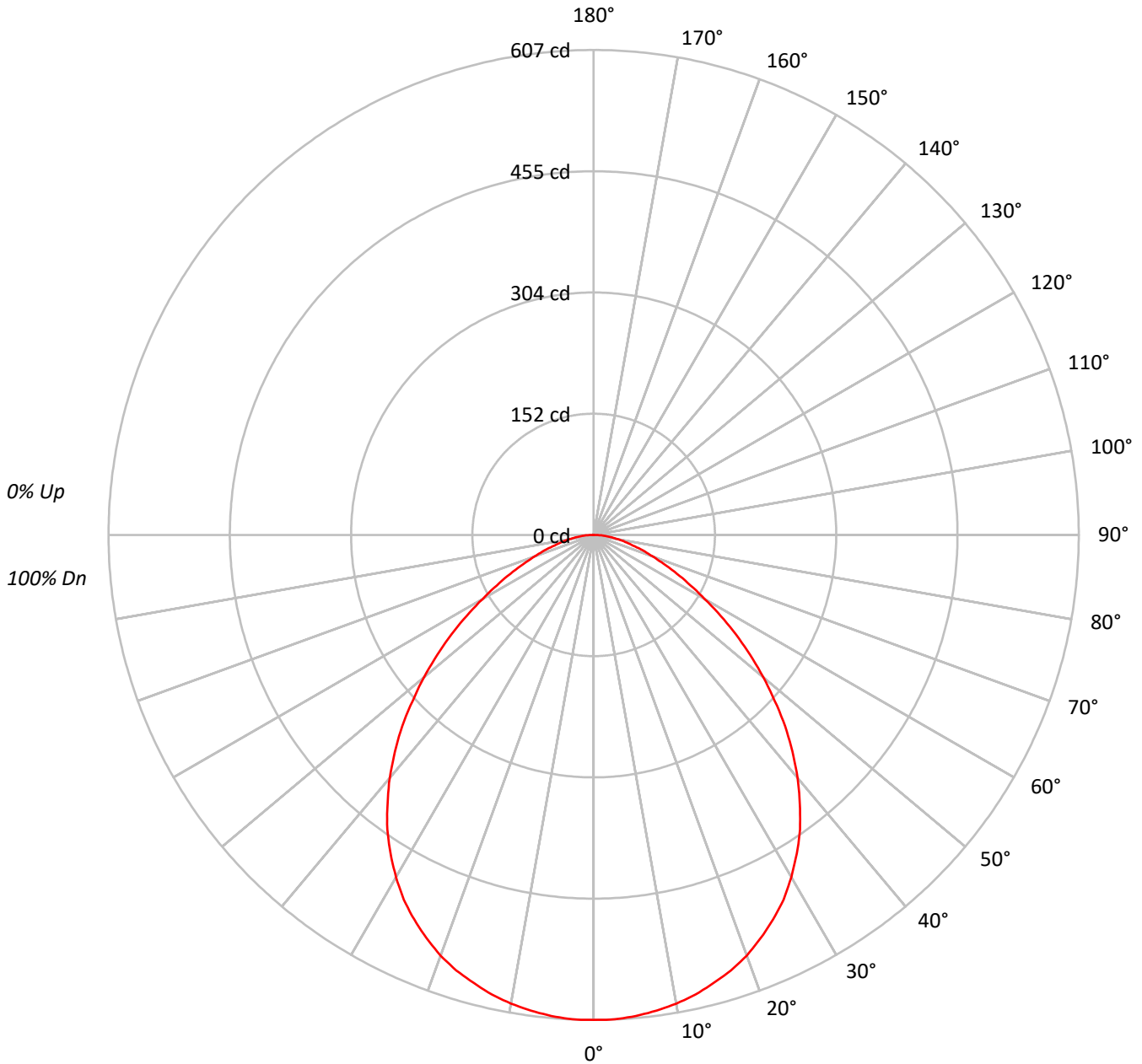
Lumens per Lamp: N/A
Luminaire Lumens: 1387.4 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.28
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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			
1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86			
2	101	94	88	82	99	92	86	82	88	84	80	85	81	78	82	79	76	74			
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	70	66	64			
4	86	75	67	60	84	73	66	60	71	64	59	69	63	58	67	62	58	56			
5	79	67	59	53	77	66	58	53	64	57	52	62	56	51	60	55	51	49			
6	74	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43			
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39			
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35			
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	37	33	31			
10	56	43	36	31	55	43	36	31	42	35	31	41	35	31	40	34	30	29			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	47917
5°	47902
10°	47751
15°	47442
20°	47061
25°	46268
30°	45075
35°	43385
40°	40921
45°	37835
50°	34018
55°	29934
60°	25356
65°	21500
70°	18095
75°	15433
80°	13820
85°	12590

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 37835 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.4	4.1
10°-20°	163.9	11.8
20°-30°	244.4	17.6
30°-40°	280.3	20.2
40°-50°	260.3	18.8
50°-60°	194.4	14.0
60°-70°	115.1	8.3
70°-80°	55.4	4.0
80°-90°	16.2	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°	465.7	33.6
0°-40°	746.0	53.8
0°-60°	1200.8	86.5
0°-90°	1387.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1387.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	607	
5°	604	57
15°	580	164
25°	531	244
35°	450	280
45°	339	260
55°	218	194
65°	115	115
75°	51	55
85°	14	16
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	607.0
2.5°	607.0
5°	604.5
7.5°	600.7
10°	595.7
12.5°	589.3
15°	580.5
17.5°	571.6
20°	560.2
22.5°	546.3
25°	531.2
27.5°	514.7
30°	494.5
32.5°	473.0
35°	450.2
37.5°	423.7
40°	397.1
42.5°	368.0
45°	338.9
47.5°	307.3
50°	277.0
52.5°	246.6
55°	217.5
57.5°	188.4
60°	160.6
62.5°	136.6
65°	115.1
67.5°	94.8
70°	78.4
72.5°	64.5
75°	50.6
77.5°	40.5
80°	30.4
82.5°	21.5
85°	13.9
87.5°	8.9
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)