

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: P643547

Luminaire Tested: ML5615LSVWFL9FS1E - 594WB - 1500LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643547
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 - 1500LM - 3000K
Description: ML56 RR, MILKY OPTIC, 5" WHITE GIMBAL TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

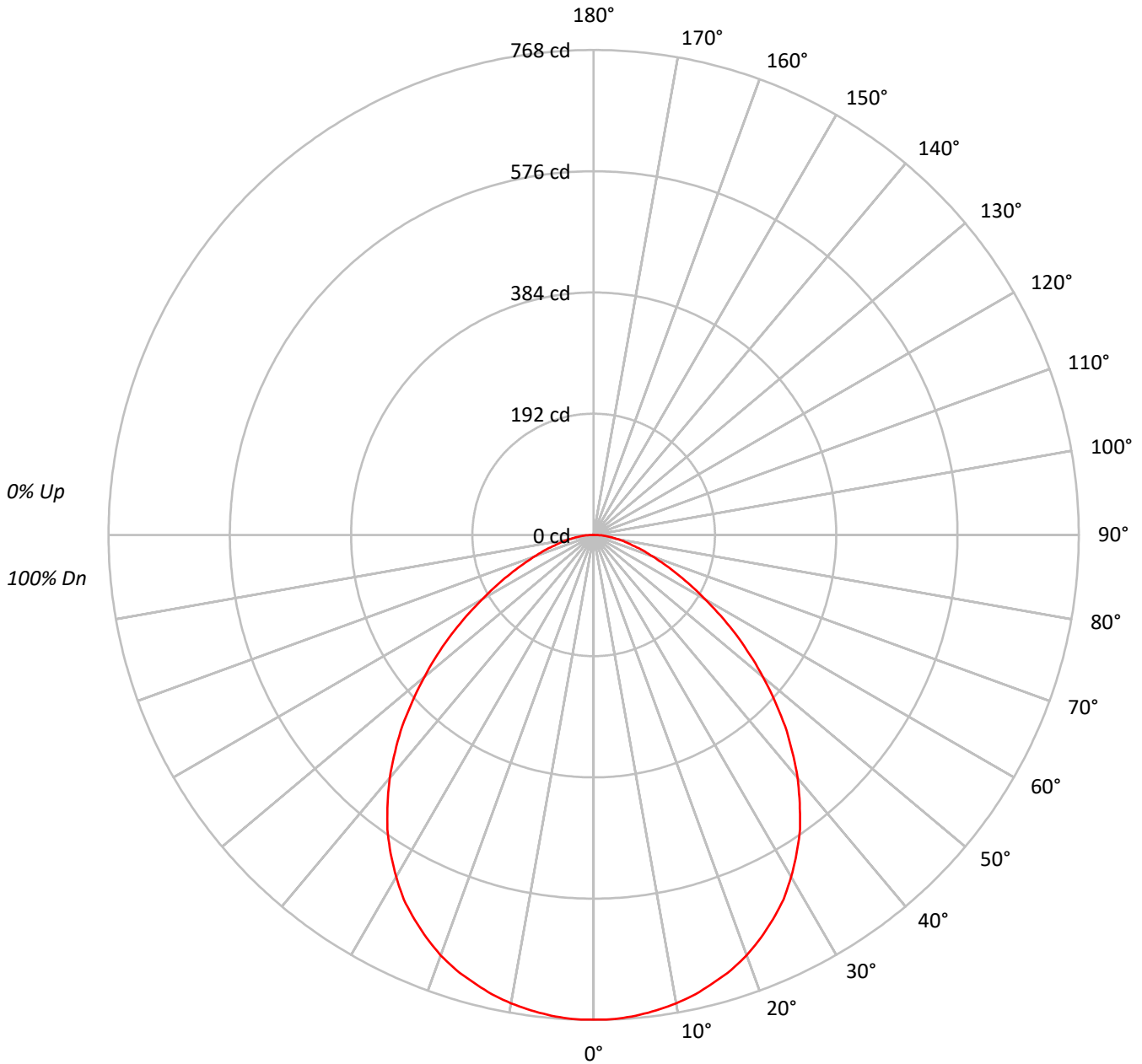
Lumens per Lamp: N/A
Luminaire Lumens: 1754.5 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.28
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 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																			
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°	60595
5°	60573
10°	60376
15°	59987
20°	59519
25°	58506
30°	56998
35°	54863
40°	51752
45°	47849
50°	43008
55°	37862
60°	32066
65°	27178
70°	22896
75°	19520
80°	17457
85°	15941

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 47849 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.6	4.1
10°-20°	207.2	11.8
20°-30°	309.1	17.6
30°-40°	354.5	20.2
40°-50°	329.2	18.8
50°-60°	245.9	14.0
60°-70°	145.6	8.3
70°-80°	70.0	4.0
80°-90°	20.5	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°	588.9	33.6
0°-40°	943.4	53.8
0°-60°	1518.5	86.5
0°-90°	1754.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1754.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	768	
5°	764	73
15°	734	207
25°	672	309
35°	569	354
45°	429	329
55°	275	246
65°	146	146
75°	64	70
85°	18	20
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	767.6
2.5°	767.6
5°	764.4
7.5°	759.6
10°	753.2
12.5°	745.2
15°	734.0
17.5°	722.9
20°	708.5
22.5°	690.9
25°	671.7
27.5°	650.9
30°	625.3
32.5°	598.1
35°	569.3
37.5°	535.7
40°	502.2
42.5°	465.4
45°	428.6
47.5°	388.6
50°	350.2
52.5°	311.8
55°	275.1
57.5°	238.3
60°	203.1
62.5°	172.7
65°	145.5
67.5°	119.9
70°	99.2
72.5°	81.6
75°	64.0
77.5°	51.2
80°	38.4
82.5°	27.2
85°	17.6
87.5°	11.2
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)