

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: P643523

Luminaire Tested: ML5615LSVWFL9FS1E - 594SNB - 900LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643523
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-102)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSVWFL9FS1E - 594SNB - 900LM - 3500K
Description: ML56 RR, MILKY OPTIC, 5" SATIN NICKLE GIMBAL TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1140.0 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.26
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

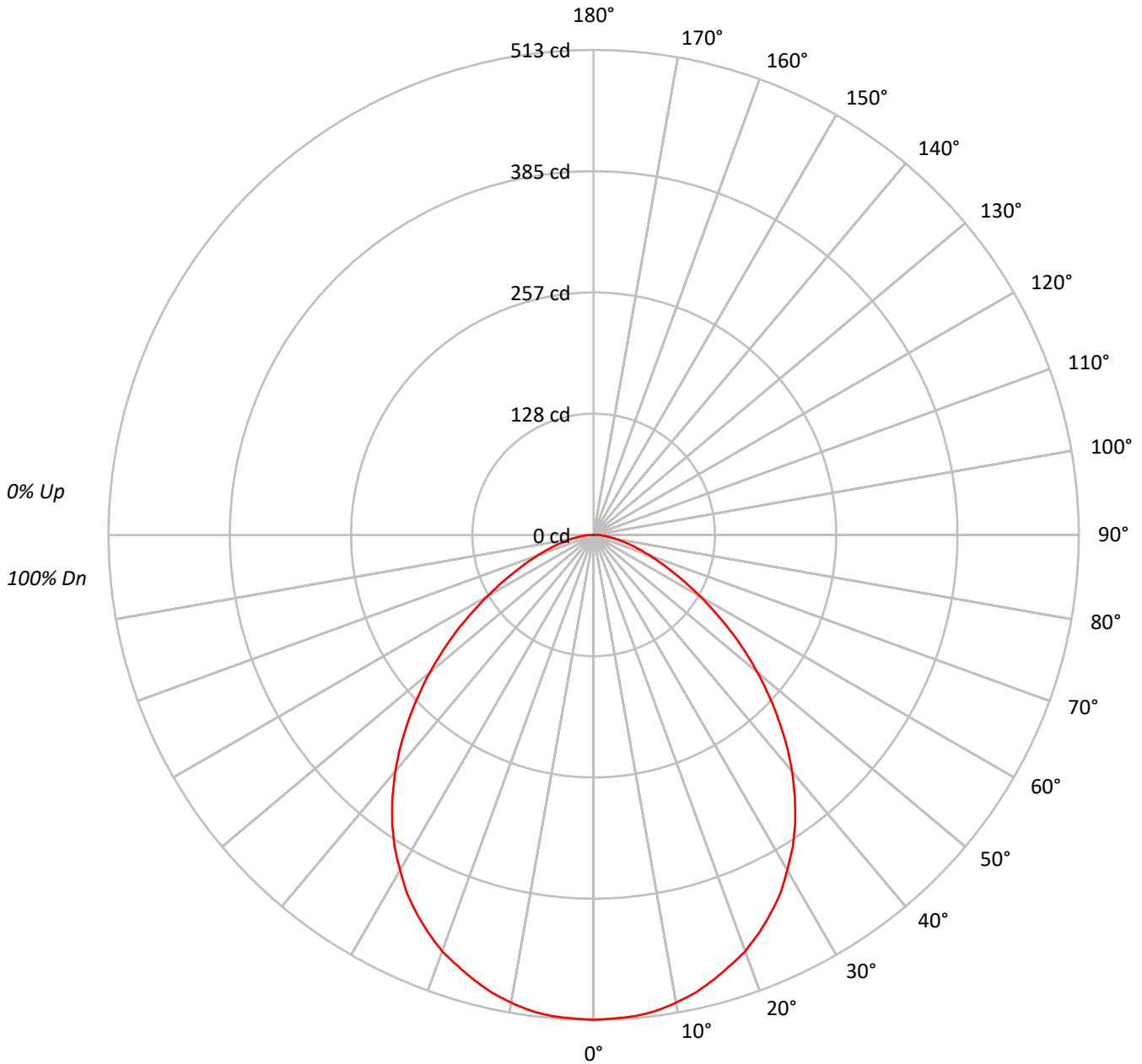
Input Watts (W): 10.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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	100	100	100	100		
	1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87	87	87	87	87	87		
	2	101	94	88	83	99	92	87	82	89	84	80	85	82	78	83	79	76	74	74	74	74	74	74		
	3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64	64	64	64	64	64		
	4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56	56	56	56	56	56		
	5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49	49	49	49	49	49		
	6	74	61	53	47	72	60	53	47	59	52	46	57	51	46	56	50	46	44	44	44	44	44	44		
	7	69	56	48	42	67	55	47	42	54	47	42	52	46	41	51	45	41	39	39	39	39	39	39		
	8	64	51	43	38	63	51	43	38	49	42	37	48	42	37	47	41	37	35	35	35	35	35	35		
	9	60	47	39	34	59	47	39	34	46	39	34	45	38	34	44	38	34	32	32	32	32	32	32		
	10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	41	35	31	29	29	29	29	29	29		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	40497
5°	40485
10°	40272
15°	39849
20°	39366
25°	38525
30°	37327
35°	35801
40°	33615
45°	30868
50°	27743
55°	24264
60°	20493
65°	17147
70°	14379
75°	12231
80°	10547
85°	10507

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 30868 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.5	4.3
10°-20°	137.5	12.1
20°-30°	203.4	17.8
30°-40°	231.5	20.3
40°-50°	213.0	18.7
50°-60°	157.7	13.8
60°-70°	92.3	8.1
70°-80°	43.3	3.8
80°-90°	12.9	1.1
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°	389.4	34.2
0°-40°	620.9	54.5
0°-60°	991.6	87.0
0°-90°	1140.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1140.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	513	
5°	511	48
15°	488	137
25°	442	203
35°	372	231
45°	276	213
55°	176	158
65°	92	92
75°	40	43
85°	12	13
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	513.0
2.5°	511.9
5°	510.9
7.5°	507.7
10°	502.4
12.5°	496.1
15°	487.6
17.5°	478.1
20°	468.6
22.5°	456.0
25°	442.3
27.5°	427.5
30°	409.5
32.5°	391.6
35°	371.5
37.5°	349.4
40°	326.2
42.5°	301.9
45°	276.5
47.5°	251.2
50°	225.9
52.5°	200.5
55°	176.3
57.5°	152.0
60°	129.8
62.5°	109.8
65°	91.8
67.5°	76.0
70°	62.3
72.5°	50.7
75°	40.1
77.5°	30.6
80°	23.2
82.5°	16.9
85°	11.6
87.5°	7.4
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)