

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: P643870

Luminaire Tested: ML5615LSWFL559FS1E - 594SNB - 900LM - 5000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643870
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-56)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSWFL559FS1E - 594SNB - 900LM - 5000K
Description: ML56 RR, 55D TIR OPTIC, 5" SATIN NICKLE GIMBAL TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

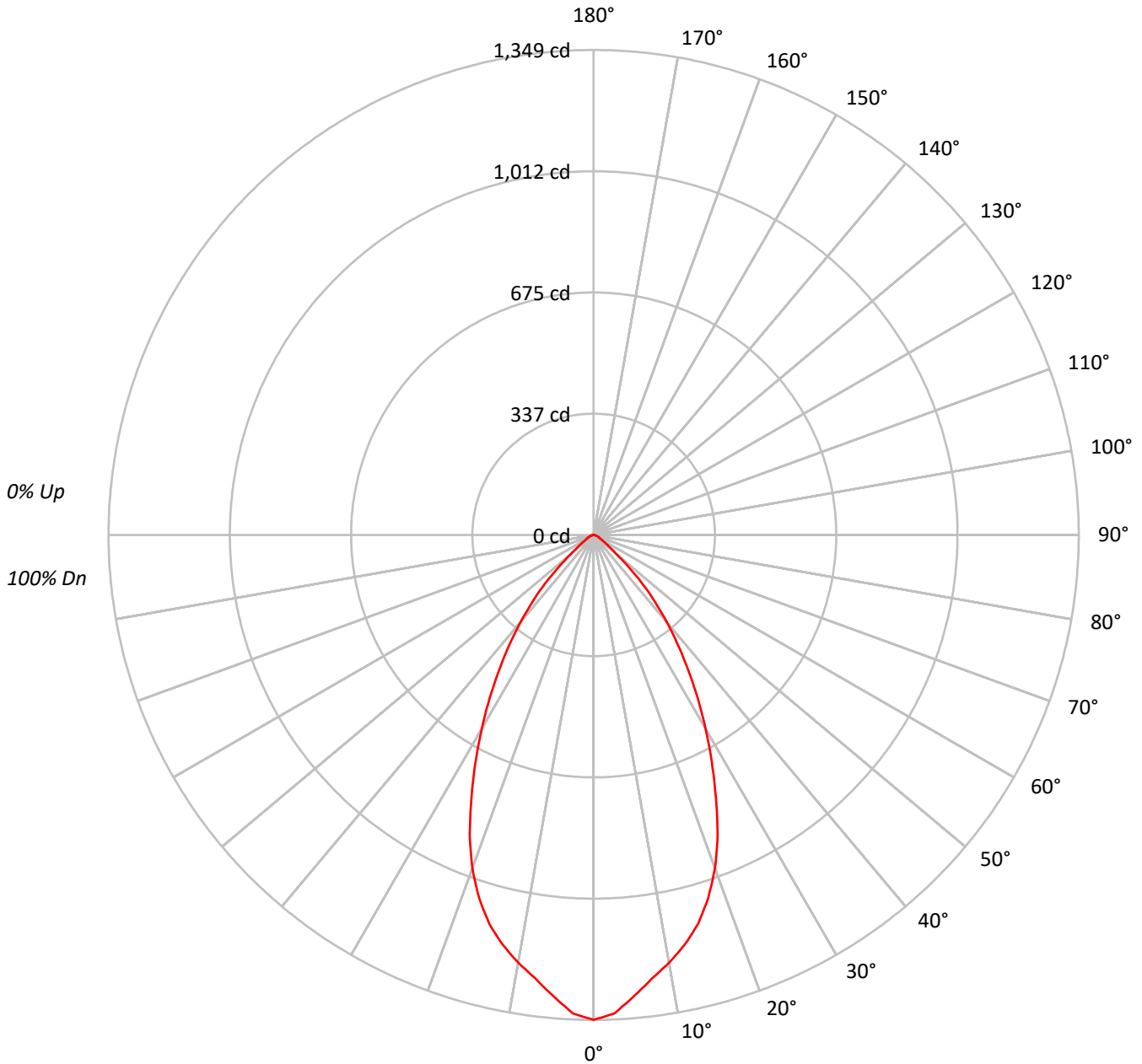
Lumens per Lamp: N/A
Luminaire Lumens: 1295.3 lumens
Efficiency: N/A
Efficacy: 123.4 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.88
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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									
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	0													
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						100													
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92						92													
2	107	101	97	93	105	100	96	92	96	93	90	93	91	88	91	88	87	85						85													
3	101	94	88	84	99	92	87	83	90	86	82	87	84	81	85	82	80	78						78													
4	95	87	81	76	93	86	80	76	84	79	75	82	77	74	80	76	73	72						72													
5	90	81	74	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66						66													
6	85	75	69	64	83	74	68	64	73	68	64	71	67	63	70	66	63	61						61													
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57						57													
8	76	66	59	55	75	65	59	55	64	59	55	63	58	54	62	58	54	53						53													
9	72	62	56	51	71	61	55	51	60	55	51	59	54	51	59	54	51	49						49													
10	69	58	52	48	68	58	52	48	57	52	48	56	51	48	55	51	47	46						46													

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	106483
5°	102025
10°	96824
15°	91557
20°	82839
25°	69943
30°	56706
35°	44060
40°	32584
45°	21334
50°	10193
55°	5478
60°	3584
65°	2970
70°	2631
75°	1739
80°	1046
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 21334 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.4	9.3
10°-20°	311.8	24.1
20°-30°	367.4	28.4
30°-40°	286.4	22.1
40°-50°	146.5	11.3
50°-60°	39.7	3.1
60°-70°	16.3	1.3
70°-80°	6.3	0.5
80°-90°	0.6	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°	799.6	61.7
0°-40°	1086.0	83.8
0°-60°	1272.2	98.2
0°-90°	1295.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1295.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1349	
5°	1288	120
15°	1120	312
25°	803	367
35°	457	286
45°	191	146
55°	40	40
65°	16	16
75°	6	6
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1348.9
2.5°	1331.8
5°	1287.5
7.5°	1244.3
10°	1207.9
12.5°	1168.1
15°	1120.3
17.5°	1058.9
20°	986.1
22.5°	900.8
25°	803.0
27.5°	710.8
30°	622.1
32.5°	538.0
35°	457.2
37.5°	383.3
40°	316.2
42.5°	251.4
45°	191.1
47.5°	127.4
50°	83.0
52.5°	56.9
55°	39.8
57.5°	29.6
60°	22.7
62.5°	19.3
65°	15.9
67.5°	13.6
70°	11.4
72.5°	8.0
75°	5.7
77.5°	3.4
80°	2.3
82.5°	1.1
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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