

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: P640407

Luminaire Tested: ML5609LSVWFL75D2W1E - 594SNB - 900LM - 2700K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640407  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-79)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5609LSVWFL75D2W1E - 594SNB - 900LM - 2700K  
Description: ML56 RR, 75D TIR OPTIC, 5" SATIN NICKLE GIMBAL TRIM  
Light Source: (1) D2W SELECTABLE LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

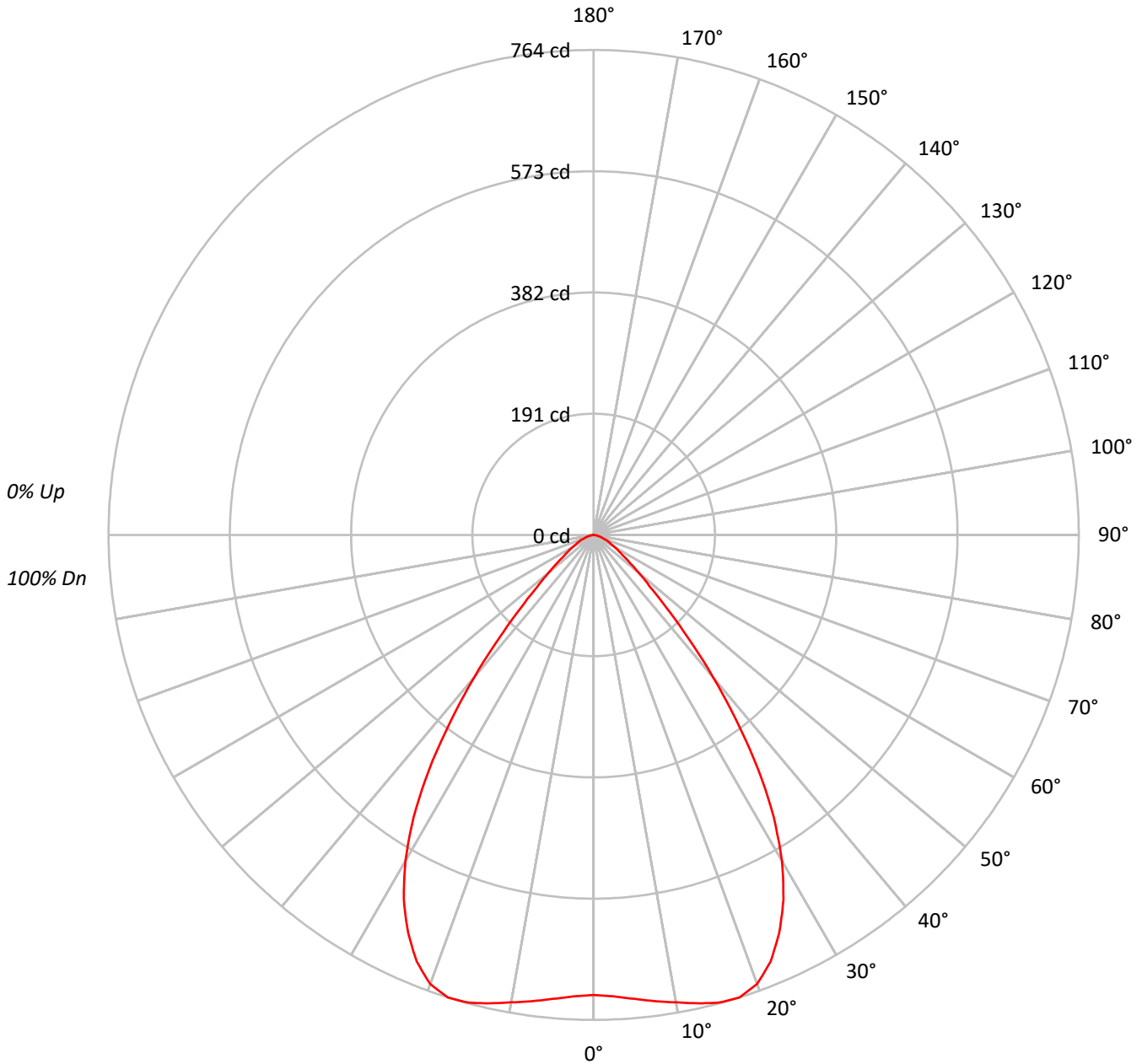
Lumens per Lamp: N/A  
Luminaire Lumens: 1101.5 lumens  
Efficiency: N/A  
Efficacy: 93.3 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.09  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

Input Watts (W): 11.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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





TEST NUMBER: P640407

CATALOG NUMBER: ML5609LSVWFL75D2W1E - 5945NB - 900LM - 2700K

**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	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91																			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	84	83																			
3	99	92	86	81	97	90	85	80	87	83	79	85	81	78	83	79	77	75																			
4	93	84	78	73	91	83	77	72	81	76	72	79	74	71	77	73	70	68																			
5	87	78	71	66	86	77	70	66	75	69	65	73	68	64	71	67	64	62																			
6	82	72	65	60	81	71	64	60	69	64	59	68	63	59	67	62	58	57																			
7	77	67	60	55	76	66	59	55	65	59	54	63	58	54	62	57	54	52																			
8	73	62	55	50	72	61	55	50	60	54	50	59	54	50	58	53	50	48																			
9	69	58	51	47	68	57	51	47	56	50	46	55	50	46	54	50	46	44																			
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43	41																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	57208
5°	58140
10°	59943
15°	62348
20°	63241
25°	60240
30°	54072
35°	43626
40°	30101
45°	17929
50°	11335
55°	7735
60°	6015
65°	4875
70°	3947
75°	3050
80°	1818
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 17929 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.5	6.4
10°-20°	215.1	19.5
20°-30°	314.9	28.6
30°-40°	278.0	25.2
40°-50°	131.9	12.0
50°-60°	53.1	4.8
60°-70°	26.4	2.4
70°-80°	10.7	1.0
80°-90°	1.1	0.1
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°	600.4	54.5
0°-40°	878.4	79.7
0°-60°	1063.4	96.5
0°-90°	1101.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1101.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	725	
5°	734	70
15°	763	215
25°	692	315
35°	453	278
45°	161	132
55°	56	53
65°	26	26
75°	10	11
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	724.7
2.5°	727.7
5°	733.7
7.5°	740.8
10°	747.8
12.5°	755.8
15°	762.9
17.5°	763.9
20°	752.8
22.5°	727.7
25°	691.6
27.5°	647.4
30°	593.2
32.5°	528.0
35°	452.7
37.5°	370.4
40°	292.1
42.5°	219.8
45°	160.6
47.5°	119.4
50°	92.3
52.5°	71.3
55°	56.2
57.5°	46.2
60°	38.1
62.5°	31.1
65°	26.1
67.5°	22.1
70°	17.1
72.5°	13.0
75°	10.0
77.5°	7.0
80°	4.0
82.5°	2.0
85°	0.0
87.5°	0.0
90°	0.0

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Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)