

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: P640408

Luminaire Tested: ML5609LSVWFL75D2W1E - 594SNB - 900LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640408
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 - 3000K
Description: ML56 RR, 75D TIR OPTIC, 5" SATIN NICKLE GIMBAL TRIM
Light Source: (1) D2W SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

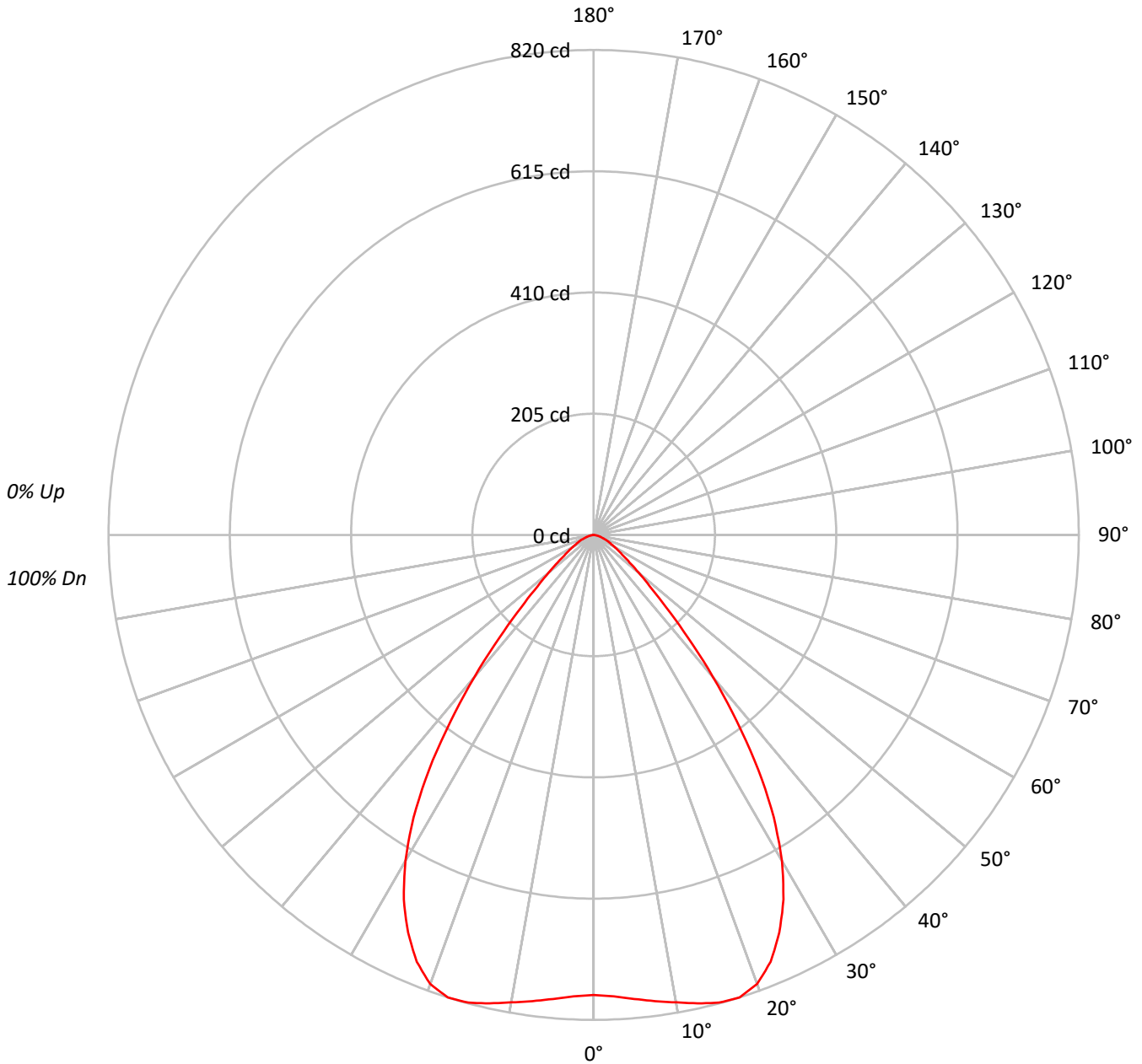
Lumens per Lamp: N/A
Luminaire Lumens: 1182.3 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.09
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 11.8
Input Voltage (V): NR
Input Current (A_{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	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°	61408
5°	62411
10°	64335
15°	66917
20°	67878
25°	64656
30°	58037
35°	46826
40°	32306
45°	19247
50°	12170
55°	8299
60°	6457
65°	5230
70°	4224
75°	3294
80°	1955
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 19247 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.7	6.4
10°-20°	230.8	19.5
20°-30°	338.0	28.6
30°-40°	298.3	25.2
40°-50°	141.5	12.0
50°-60°	57.0	4.8
60°-70°	28.3	2.4
70°-80°	11.5	1.0
80°-90°	1.2	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°	644.5	54.5
0°-40°	942.8	79.7
0°-60°	1141.4	96.5
0°-90°	1182.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1182.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	778	
5°	788	76
15°	819	231
25°	742	338
35°	486	298
45°	172	142
55°	60	57
65°	28	28
75°	11	11
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	777.9
2.5°	781.1
5°	787.6
7.5°	795.1
10°	802.6
12.5°	811.3
15°	818.8
17.5°	819.9
20°	808.0
22.5°	781.1
25°	742.3
27.5°	694.9
30°	636.7
32.5°	566.7
35°	485.9
37.5°	397.6
40°	313.5
42.5°	235.9
45°	172.4
47.5°	128.2
50°	99.1
52.5°	76.5
55°	60.3
57.5°	49.6
60°	40.9
62.5°	33.4
65°	28.0
67.5°	23.7
70°	18.3
72.5°	14.0
75°	10.8
77.5°	7.5
80°	4.3
82.5°	2.2
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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(END OF REPORT)