

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: P640402

Luminaire Tested: ML5609LSVWFL75D2W1E - 593SNB - 900LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640402
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-76)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5609LSVWFL75D2W1E - 593SNB - 900LM - 3000K
Description: ML56 RR, 75D TIR OPTIC, 5" SATIN NICKLE BAFFLE TRIM
Light Source: (1) D2W SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1137.1 lumens
Efficiency: N/A
Efficacy: 96.4 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

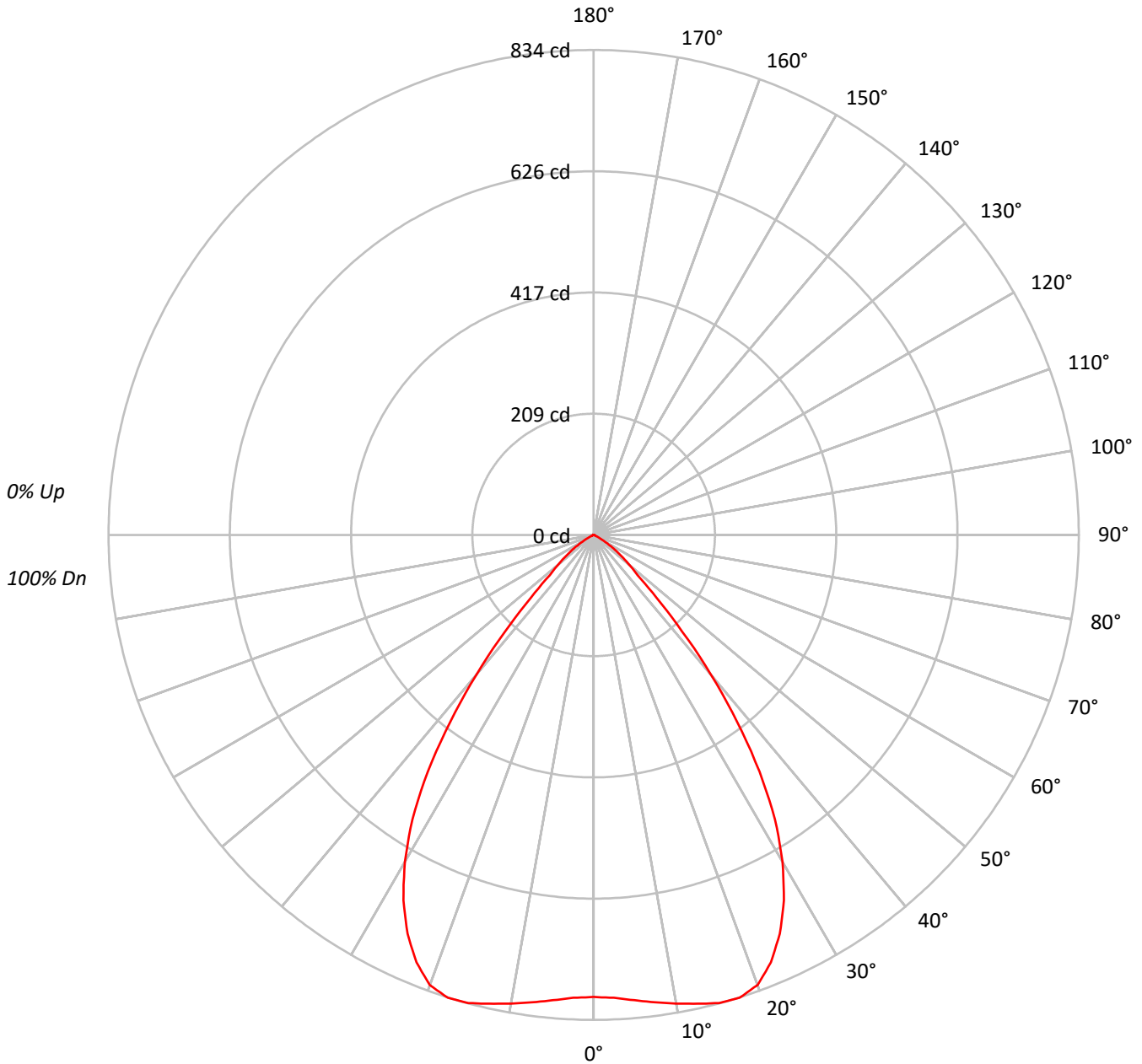
Input Watts (W): 11.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	100	100	100
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92	92	92	92
2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84	84	84	84
3	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	79	77	77	77	77
4	95	86	80	75	93	85	79	75	83	78	74	81	76	73	79	75	72	71	71	71	71
5	89	80	73	68	87	79	73	68	77	72	67	75	70	67	74	69	66	65	65	65	65
6	84	74	67	63	82	73	67	62	72	66	62	70	65	61	69	64	61	59	59	59	59
7	79	69	62	57	78	68	62	57	67	61	57	65	60	57	64	60	56	55	55	55	55
8	75	64	57	53	73	63	57	53	62	57	52	61	56	52	60	55	52	50	50	50	50
9	70	60	53	49	69	59	53	49	58	53	49	57	52	48	56	52	48	47	47	47	47
10	67	56	50	45	66	56	49	45	55	49	45	54	49	45	53	48	45	43	43	43	43

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	62726
5°	63648
10°	65594
15°	68110
20°	69197
25°	65919
30°	59158
35°	47895
40°	32327
45°	16969
50°	9800
55°	6083
60°	2716
65°	803
70°	508
75°	336
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16969 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.1	6.8
10°-20°	235.0	20.7
20°-30°	344.4	30.3
30°-40°	304.2	26.8
40°-50°	128.4	11.3
50°-60°	40.6	3.6
60°-70°	6.1	0.5
70°-80°	1.2	0.1
80°-90°	0.0	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°	656.6	57.7
0°-40°	960.9	84.5
0°-60°	1129.9	99.4
0°-90°	1137.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1137.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	795	
5°	803	77
15°	833	235
25°	757	344
35°	497	304
45°	152	128
55°	44	41
65°	4	6
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	794.6
2.5°	796.7
5°	803.2
7.5°	810.7
10°	818.3
12.5°	825.8
15°	833.4
17.5°	834.4
20°	823.7
22.5°	795.6
25°	756.8
27.5°	708.3
30°	649.0
32.5°	580.0
35°	497.0
37.5°	405.4
40°	313.7
42.5°	225.3
45°	152.0
47.5°	102.4
50°	79.8
52.5°	60.4
55°	44.2
57.5°	30.2
60°	17.2
62.5°	8.6
65°	4.3
67.5°	2.2
70°	2.2
72.5°	1.1
75°	1.1
77.5°	1.1
80°	0.0
82.5°	0.0
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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