

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: P640401

Luminaire Tested: ML5609LSVWFL75D2W1E - 593SNB - 900LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640401
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 - 2700K
Description: ML56 RR, 75D TIR OPTIC, 5" SATIN NICKLE BAFFLE TRIM
Light Source: (1) D2W SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1059.4 lumens
Efficiency: N/A
Efficacy: 89.8 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

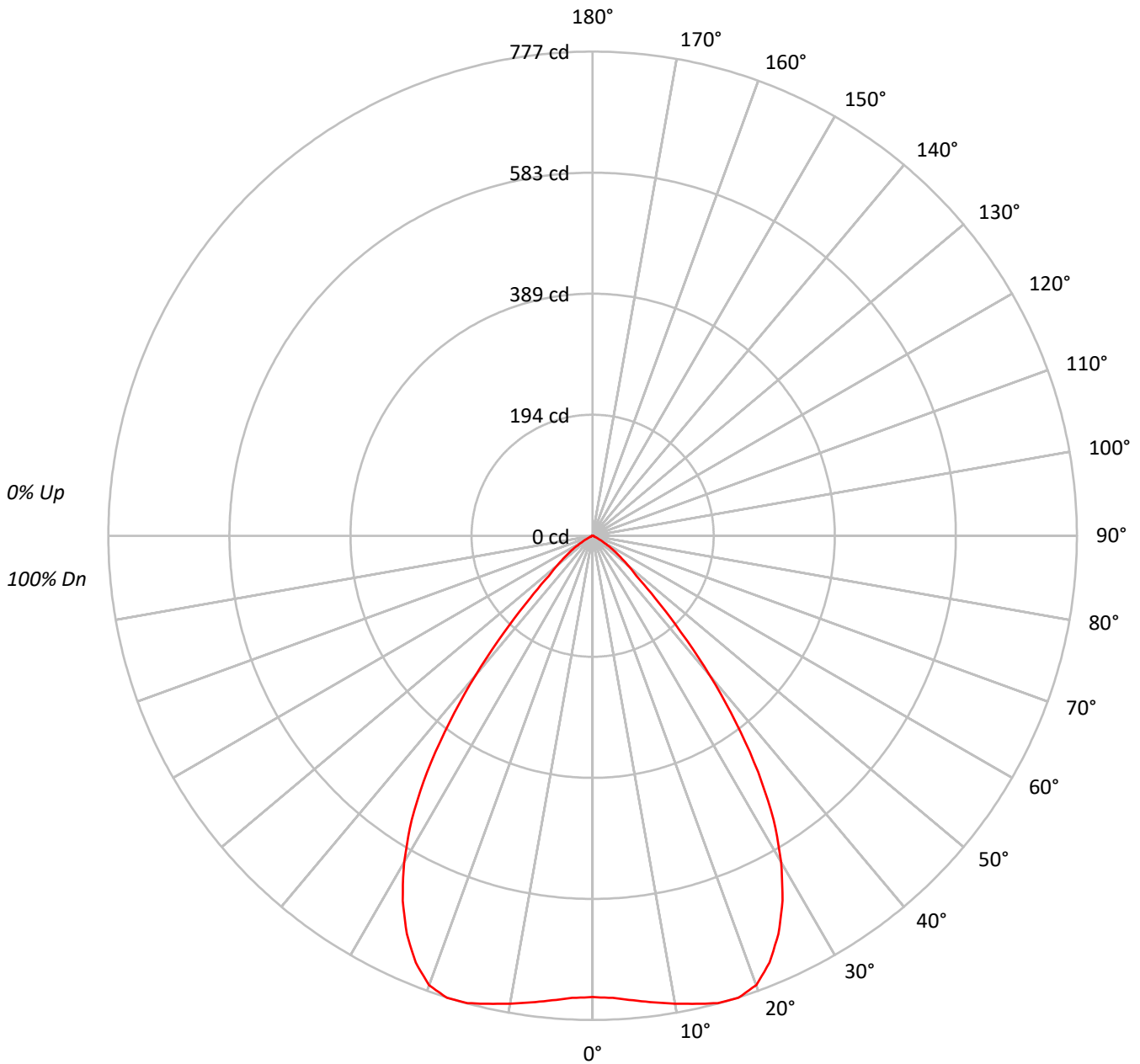
Input Watts (W): 11.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	58440
5°	59297
10°	61113
15°	63452
20°	64467
25°	61415
30°	55120
35°	44619
40°	30122
45°	15808
50°	9125
55°	5670
60°	2542
65°	747
70°	462
75°	305
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15808 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.9	6.8
10°-20°	219.0	20.7
20°-30°	320.9	30.3
30°-40°	283.5	26.8
40°-50°	119.7	11.3
50°-60°	37.8	3.6
60°-70°	5.6	0.5
70°-80°	1.1	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°	611.8	57.7
0°-40°	895.2	84.5
0°-60°	1052.7	99.4
0°-90°	1059.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1059.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	740	
5°	748	72
15°	776	219
25°	705	321
35°	463	283
45°	142	120
55°	41	38
65°	4	6
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	740.3
2.5°	742.3
5°	748.3
7.5°	755.3
10°	762.4
12.5°	769.4
15°	776.4
17.5°	777.4
20°	767.4
22.5°	741.3
25°	705.1
27.5°	659.9
30°	604.7
32.5°	540.4
35°	463.0
37.5°	377.7
40°	292.3
42.5°	209.9
45°	141.6
47.5°	95.4
50°	74.3
52.5°	56.2
55°	41.2
57.5°	28.1
60°	16.1
62.5°	8.0
65°	4.0
67.5°	2.0
70°	2.0
72.5°	1.0
75°	1.0
77.5°	1.0
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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(END OF REPORT)