

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: P640426

Luminaire Tested: ML5609LSVWFL75D2W1E - 693SNB - 900LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640426
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-88)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5609LSVWFL75D2W1E - 693SNB - 900LM - 3000K
Description: ML56 RR, 75D TIR OPTIC, 6" SATIN NICKLE BAFFLE TRIM
Light Source: (1) D2W SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1157.6 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.09
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

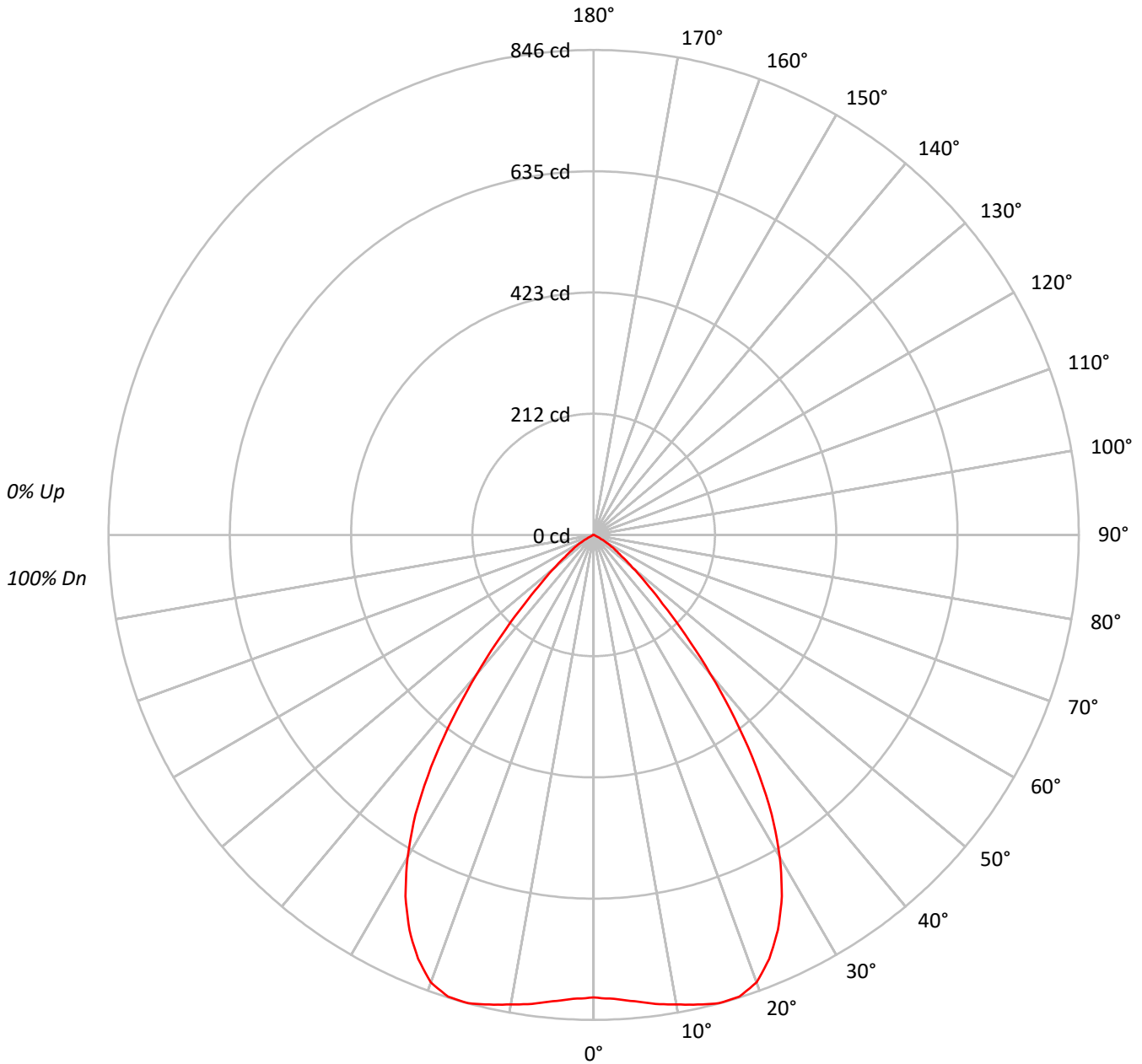
Input Watts (W): 11.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P640426

CATALOG NUMBER: ML5609LSVWFL75D2W1E - 693SNB - 900LM - 3000K

Luminous Intensity Polar Plot





TEST NUMBER: P640426

CATALOG NUMBER: ML5609LSVWFL75D2W1E - 693SNB - 900LM - 3000K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	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	98	97	96	95	94	92	92	92	92	100																
	1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92	92	92	92	92	92	92	92	92	92	92	92																
	2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84	84	81	79	77	77	77	77	77	77	77	77																
	3	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	79	77	77	77	77	77	77	77	77	77	77	77	77																
	4	94	86	80	75	92	85	79	75	83	78	74	81	76	73	79	75	72	70	70	70	70	70	70	70	70	70	70	70	70																
	5	89	80	73	68	87	79	72	68	77	71	67	75	70	67	73	69	66	64	64	64	64	64	64	64	64	64	64	64	64																
	6	84	74	67	62	82	73	67	62	71	66	62	70	65	61	68	64	61	59	59	59	59	59	59	59	59	59	59	59	59																
	7	79	68	62	57	77	68	61	57	66	61	57	65	60	56	64	59	56	54	54	54	54	54	54	54	54	54	54	54	54																
	8	74	64	57	53	73	63	57	52	62	56	52	61	56	52	60	55	52	50	50	50	50	50	50	50	50	50	50	50	50																
	9	70	60	53	49	69	59	53	49	58	52	48	57	52	48	56	51	48	46	46	46	46	46	46	46	46	46	46	46	46																
	10	66	56	49	45	65	55	49	45	54	49	45	54	48	45	53	48	45	43	43	43	43	43	43	43	43	43	43	43	43																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	44234
5°	44937
10°	46297
15°	47997
20°	48456
25°	46001
30°	41108
35°	33060
40°	22693
45°	13211
50°	7548
55°	4540
60°	2489
65°	700
70°	176
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13211 cd/sqm



TEST NUMBER: P640426

CATALOG NUMBER: ML5609LSVWFL75D2W1E - 693SNB - 900LM - 3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.5	6.8
10°-20°	238.2	20.6
20°-30°	346.1	29.9
30°-40°	303.7	26.2
40°-50°	139.6	12.1
50°-60°	44.4	3.8
60°-70°	7.1	0.6
70°-80°	0.1	0.0
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°	662.7	57.2
0°-40°	966.4	83.5
0°-60°	1150.4	99.4
0°-90°	1157.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1157.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	807	
5°	817	78
15°	846	238
25°	760	346
35°	494	304
45°	170	140
55°	48	44
65°	5	7
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P640426

CATALOG NUMBER: ML5609LSVWFL75D2W1E - 693SNB - 900LM - 3000K

CANDELA DISTRIBUTION (FULL):

0°	
0°	806.9
2.5°	810.1
5°	816.6
7.5°	825.2
10°	831.7
12.5°	839.2
15°	845.7
17.5°	844.6
20°	830.6
22.5°	800.4
25°	760.5
27.5°	710.8
30°	649.4
32.5°	578.2
35°	494.0
37.5°	404.5
40°	317.1
42.5°	237.3
45°	170.4
47.5°	123.0
50°	88.5
52.5°	62.6
55°	47.5
57.5°	34.5
60°	22.7
62.5°	10.8
65°	5.4
67.5°	1.1
70°	1.1
72.5°	0.0
75°	0.0
77.5°	0.0
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

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

Scaled Data Report



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

Scaled Data Report



— 0°-180°

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

Scaled Data Report



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

Scaled Data Report



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

Scaled Data Report



(END OF REPORT)