

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: P640427

Luminaire Tested: ML5609LSVWFL75D2W1E - 693TBZB - 900LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640427
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-89)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5609LSVWFL75D2W1E - 693TBZB - 900LM - 2700K
Description: ML56 RR, 75D TIR OPTIC, 6" TUSCON BRONZE BAFFLE TRIM
Light Source: (1) D2W SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

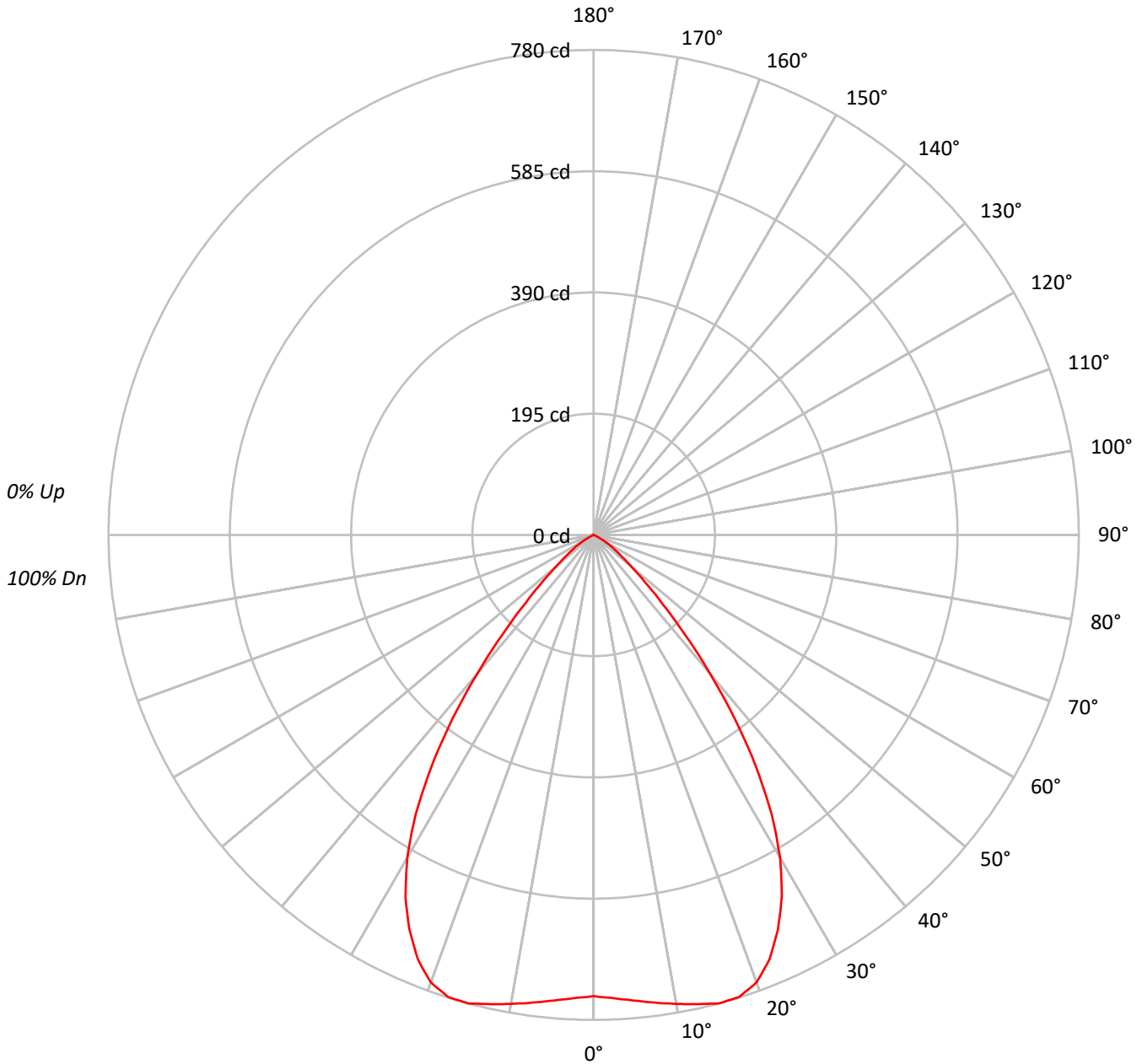
Lumens per Lamp: N/A
Luminaire Lumens: 1062.4 lumens
Efficiency: N/A
Efficacy: 90.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.09
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 11.8
Input Voltage (V): NR
Input Current (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



TEST NUMBER: P640427
CATALOG NUMBER: ML5609LSVWFL75D2W1E - 693TBZB - 900LM - 2700K

Luminous Intensity Polar Plot





TEST NUMBER: P640427

CATALOG NUMBER: ML5609LSVWFL75D2W1E - 693TBZB - 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				100															
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92				92															
2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84				84															
3	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	79	77				77															
4	94	86	80	75	93	85	79	75	83	78	74	81	76	73	79	75	72	70				70															
5	89	80	73	68	87	79	73	68	77	71	67	75	70	67	73	69	66	65				65															
6	84	74	67	62	82	73	67	62	71	66	62	70	65	61	69	64	61	59				59															
7	79	69	62	57	77	68	62	57	67	61	57	65	60	56	64	60	56	55				55															
8	74	64	57	53	73	63	57	53	62	56	52	61	56	52	60	55	52	50				50															
9	70	60	53	49	69	59	53	49	58	52	48	57	52	48	56	52	48	47				47															
10	67	56	49	45	66	55	49	45	55	49	45	54	49	45	53	48	45	43				43															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	40666
5°	41371
10°	42634
15°	44262
20°	44681
25°	42371
30°	37917
35°	30403
40°	20789
45°	12079
50°	6686
55°	4033
60°	2094
65°	519
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12079 cd/sqm



TEST NUMBER: P640427

CATALOG NUMBER: ML5609LSVWFL75D2W1E - 693TBZB - 900LM - 2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.2	6.8
10°-20°	219.6	20.7
20°-30°	319.1	30.0
30°-40°	279.6	26.3
40°-50°	126.9	11.9
50°-60°	39.3	3.7
60°-70°	5.7	0.5
70°-80°	0.0	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°	610.9	57.5
0°-40°	890.5	83.8
0°-60°	1056.7	99.5
0°-90°	1062.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1062.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	742	
5°	752	72
15°	780	220
25°	700	319
35°	454	280
45°	156	127
55°	42	39
65°	4	6
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P640427

CATALOG NUMBER: ML5609LSVWFL75D2W1E - 693TBZB - 900LM - 2700K

CANDELA DISTRIBUTION (FULL):

0°	
0°	741.8
2.5°	745.8
5°	751.8
7.5°	758.8
10°	765.9
12.5°	772.9
15°	779.9
17.5°	778.9
20°	765.9
22.5°	738.7
25°	700.5
27.5°	655.3
30°	599.0
32.5°	532.7
35°	454.3
37.5°	372.9
40°	290.5
42.5°	216.1
45°	155.8
47.5°	110.6
50°	78.4
52.5°	56.3
55°	42.2
57.5°	30.2
60°	19.1
62.5°	9.0
65°	4.0
67.5°	1.0
70°	0.0
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)