

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: P640430

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

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640430
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-86)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5609LSVWFL75D2W1E - 693WB - 900LM - 3000K
Description: ML56 RR, 75D TIR OPTIC, 6" WHITE BAFFLE TRIM
Light Source: (1) D2W SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

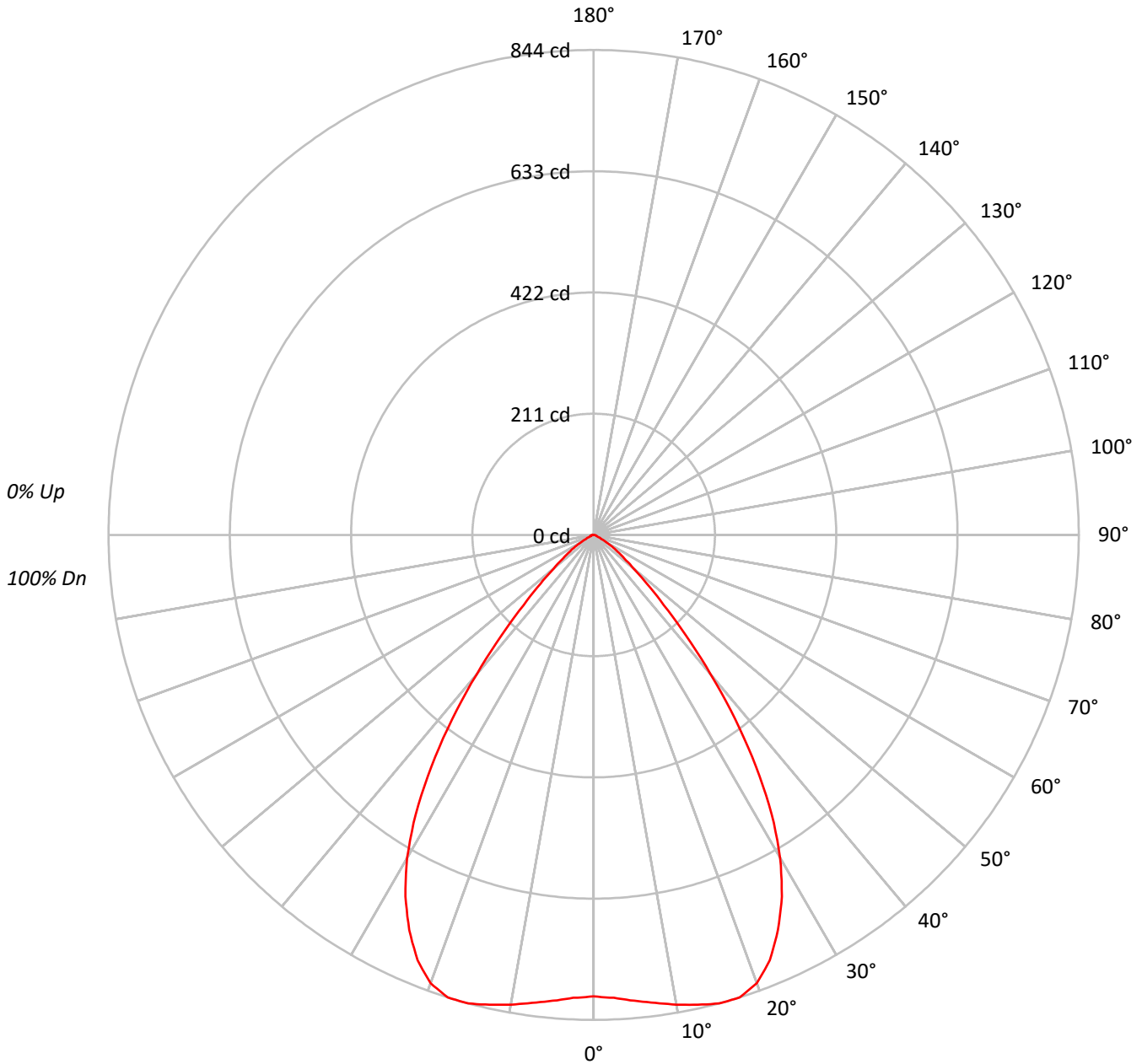
Lumens per Lamp: N/A
Luminaire Lumens: 1171.6 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.09
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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: P640430
CATALOG NUMBER: ML5609LSVWFL75D2W1E - 693WB - 900LM - 3000K

Luminous Intensity Polar Plot





TEST NUMBER: P640430

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

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	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	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92																											
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	84																											
3	100	93	87	83	98	91	86	82	89	84	81	86	82	79	84	81	78	76																											
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70																											
5	88	79	72	67	87	78	72	67	76	71	67	74	70	66	73	69	65	64																											
6	83	73	66	62	82	72	66	61	71	65	61	69	64	60	68	63	60	58																											
7	78	68	61	56	77	67	61	56	66	60	56	65	59	56	63	59	55	54																											
8	74	63	57	52	73	63	56	52	61	56	52	60	55	51	59	55	51	50																											
9	70	59	52	48	69	59	52	48	58	52	48	57	51	48	56	51	47	46																											
10	66	55	49	45	65	55	49	44	54	48	44	53	48	44	52	48	44	43																											

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	44026
5°	44789
10°	46208
15°	47906
20°	48427
25°	45904
30°	41082
35°	32973
40°	22678
45°	13373
50°	7727
55°	4846
60°	2960
65°	1401
70°	866
75°	911
80°	1010
85°	692

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13373 cd/sqm



TEST NUMBER: P640430

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.2	6.7
10°-20°	237.9	20.3
20°-30°	345.7	29.5
30°-40°	303.2	25.9
40°-50°	140.6	12.0
50°-60°	47.7	4.1
60°-70°	11.9	1.0
70°-80°	4.8	0.4
80°-90°	1.6	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°	661.8	56.5
0°-40°	964.9	82.4
0°-60°	1153.2	98.4
0°-90°	1171.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1171.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	803	
5°	814	78
15°	844	238
25°	759	346
35°	493	303
45°	172	141
55°	51	48
65°	11	12
75°	4	5
85°	1	2
90°	0	



TEST NUMBER: P640430

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

CANDELA DISTRIBUTION (FULL):

	0°
0°	803.1
2.5°	806.4
5°	813.9
7.5°	821.4
10°	830.1
12.5°	837.6
15°	844.1
17.5°	844.1
20°	830.1
22.5°	801.0
25°	758.9
27.5°	709.3
30°	649.0
32.5°	576.7
35°	492.7
37.5°	404.3
40°	316.9
42.5°	237.2
45°	172.5
47.5°	125.0
50°	90.6
52.5°	66.8
55°	50.7
57.5°	38.8
60°	27.0
62.5°	15.1
65°	10.8
67.5°	6.5
70°	5.4
72.5°	5.4
75°	4.3
77.5°	4.3
80°	3.2
82.5°	2.2
85°	1.1
87.5°	1.1
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)