

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: P640406

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

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640406
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-74)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5609LSVWFL75D2W1E - 593WB - 900LM - 3000K
Description: ML56 RR, 75D TIR OPTIC, 5" WHITE BAFFLE TRIM
Light Source: (1) D2W SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1159.8 lumens
Efficiency: N/A
Efficacy: 98.3 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

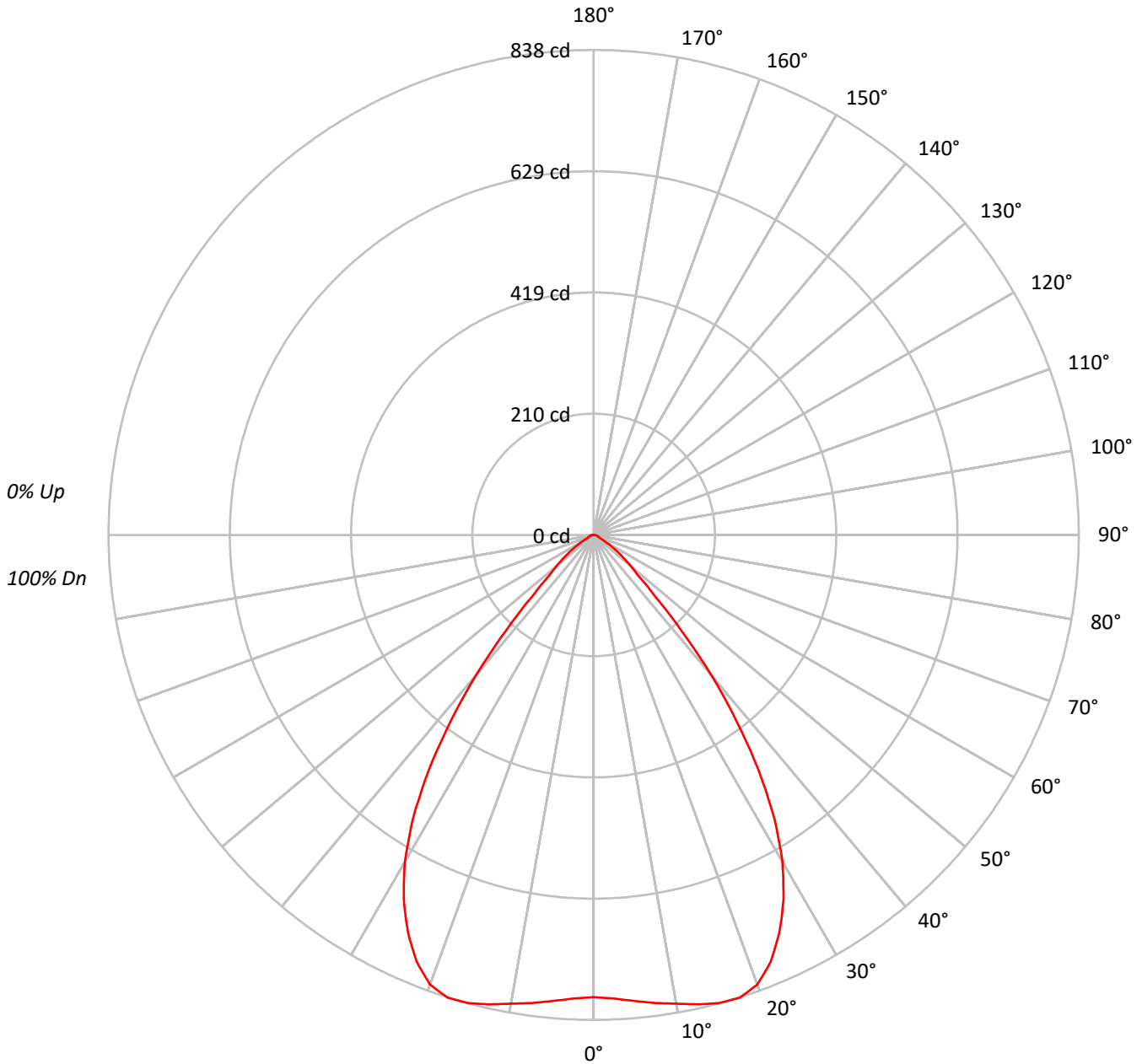
Input Watts (W): 11.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	63042
5°	64052
10°	65915
15°	68437
20°	69440
25°	66084
30°	59432
35°	47876
40°	32543
45°	16846
50°	10328
55°	6826
60°	3410
65°	2017
70°	1985
75°	1983
80°	1955
85°	1993

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16846 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.6	6.7
10°-20°	236.2	20.4
20°-30°	345.6	29.8
30°-40°	304.7	26.3
40°-50°	129.1	11.1
50°-60°	45.0	3.9
60°-70°	12.5	1.1
70°-80°	6.8	0.6
80°-90°	2.4	0.2
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°	659.4	56.9
0°-40°	964.1	83.1
0°-60°	1138.1	98.1
0°-90°	1159.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1159.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	799	
5°	808	78
15°	837	236
25°	759	346
35°	497	305
45°	151	129
55°	50	45
65°	11	13
75°	6	7
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	798.6
2.5°	801.8
5°	808.3
7.5°	815.8
10°	822.3
12.5°	830.9
15°	837.4
17.5°	838.5
20°	826.6
22.5°	798.6
25°	758.7
27.5°	710.2
30°	652.0
32.5°	580.9
35°	496.8
37.5°	405.2
40°	315.8
42.5°	224.2
45°	150.9
47.5°	104.5
50°	84.1
52.5°	64.7
55°	49.6
57.5°	35.6
60°	21.6
62.5°	15.1
65°	10.8
67.5°	9.7
70°	8.6
72.5°	7.5
75°	6.5
77.5°	5.4
80°	4.3
82.5°	3.2
85°	2.2
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

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— 0°-180°

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