

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: P640398

Luminaire Tested: ML5609LSVWFL75D2W1E - 592W - 900LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640398
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-73)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5609LSVWFL75D2W1E - 592W - 900LM - 3000K
Description: ML56 RR, 75D TIR OPTIC, 5" WHITE TRIM
Light Source: (1) D2W SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

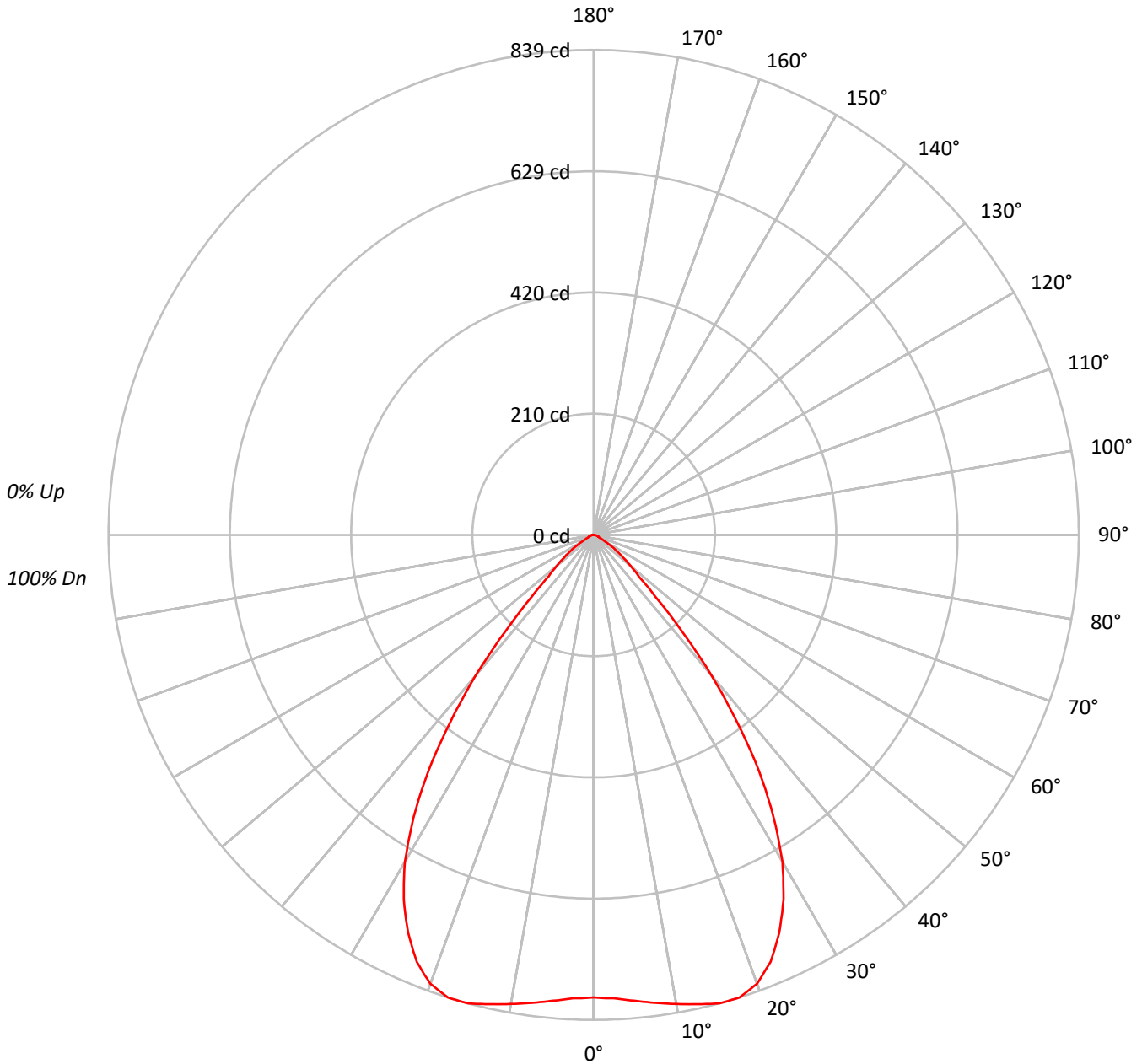
Lumens per Lamp: N/A
Luminaire Lumens: 1161.9 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.09
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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	100	100
1	113	110	107	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92	92	92	92
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	87	85	84	84	84	84
3	100	93	87	83	98	91	86	82	89	84	81	86	82	79	84	81	78	76	76	76	76
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70	70	70	70
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64	64	64	64
6	83	73	66	62	82	72	66	61	71	65	61	69	64	61	68	64	60	58	58	58	58
7	78	68	61	57	77	67	61	56	66	60	56	65	60	56	64	59	55	54	54	54	54
8	74	63	57	52	73	63	56	52	62	56	52	61	55	51	59	55	51	50	50	50	50
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	48	46	46	46	46
10	66	55	49	45	65	55	49	45	54	48	44	53	48	44	52	48	44	43	43	43	43

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	63184
5°	64107
10°	66059
15°	68576
20°	69407
25°	66145
30°	59505
35°	48059
40°	32636
45°	16958
50°	10316
55°	6826
60°	3568
65°	2017
70°	1985
75°	1983
80°	1955
85°	1993

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16958 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.7	6.7
10°-20°	236.4	20.3
20°-30°	345.8	29.8
30°-40°	305.1	26.3
40°-50°	129.7	11.2
50°-60°	45.0	3.9
60°-70°	12.9	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°	660.0	56.8
0°-40°	965.1	83.1
0°-60°	1139.8	98.1
0°-90°	1161.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1161.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	800	
5°	809	78
15°	839	236
25°	759	346
35°	499	305
45°	152	130
55°	50	45
65°	11	13
75°	6	7
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	800.4
2.5°	802.5
5°	809.0
7.5°	816.5
10°	824.1
12.5°	831.6
15°	839.1
17.5°	839.1
20°	826.2
22.5°	799.3
25°	759.4
27.5°	711.0
30°	652.8
32.5°	579.5
35°	498.7
37.5°	406.1
40°	316.7
42.5°	225.1
45°	151.9
47.5°	105.6
50°	84.0
52.5°	64.6
55°	49.6
57.5°	35.5
60°	22.6
62.5°	16.2
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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