

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: P640396

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

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640396
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-71)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5609LSVWFL75D2W1E - 592SC - 900LM - 3000K
Description: ML56 RR, 75D TIR OPTIC, 5" SPECULAR CLEAR TRIM
Light Source: (1) D2W SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1170.5 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.07
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

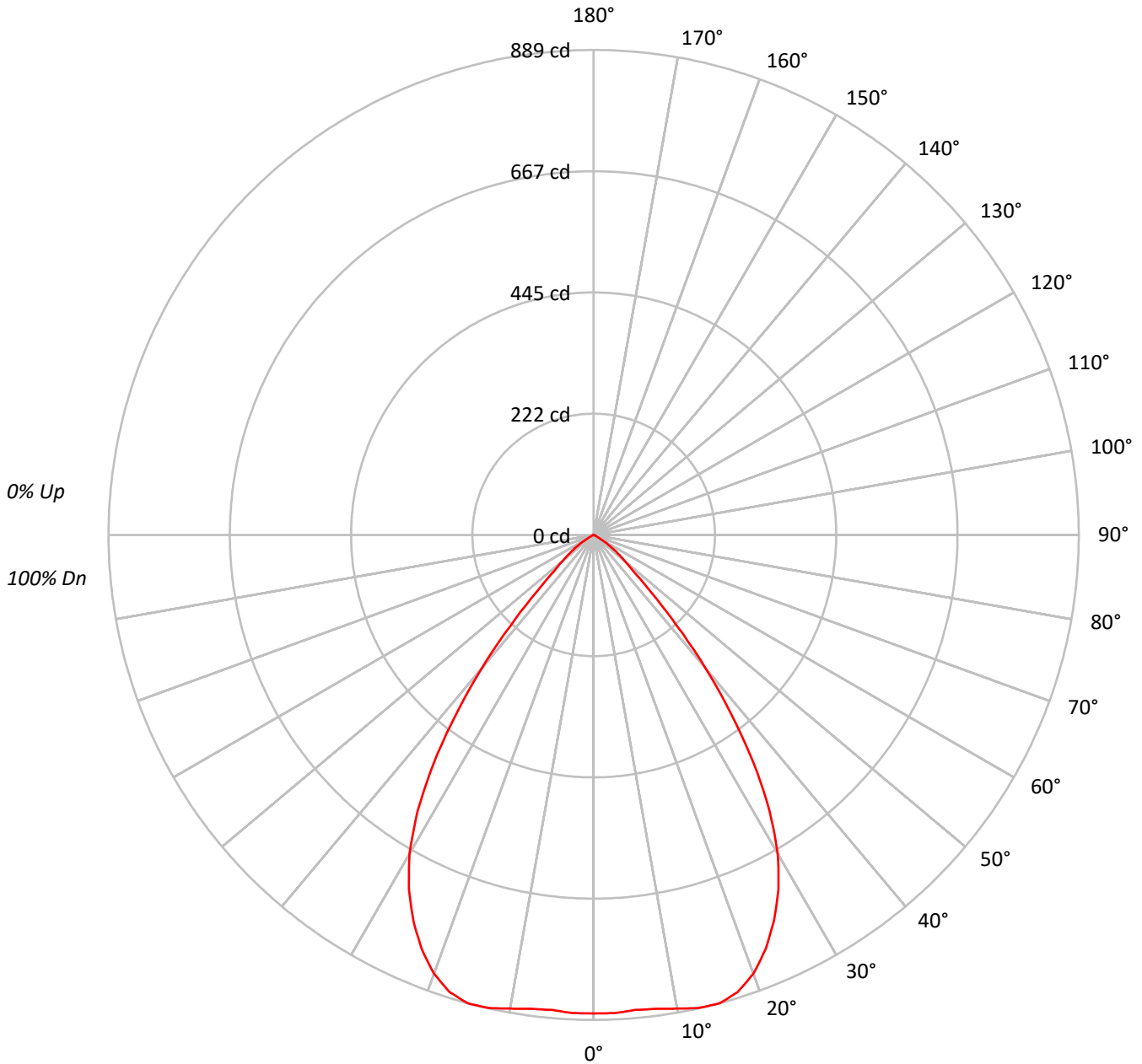
Input Watts (W): 11.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	105	111	108	106	103	104	102	100	100	99	97	97	95	94	93			93
2	107	102	97	93	105	100	96	92	96	93	90	93	91	88	91	89	87	85			85
3	101	94	88	84	99	92	87	83	90	85	82	87	84	81	85	82	79	78			78
4	95	87	81	76	93	85	80	75	83	78	75	81	77	74	79	76	73	71			71
5	89	80	74	69	88	79	73	69	77	72	68	76	71	68	74	70	67	65			65
6	84	75	68	63	83	74	68	63	72	67	63	71	66	62	69	65	62	60			60
7	80	69	63	58	78	69	62	58	67	62	58	66	61	57	65	60	57	55			55
8	75	65	58	54	74	64	58	54	63	57	53	62	57	53	61	56	53	51			51
9	71	60	54	50	70	60	54	50	59	53	49	58	53	49	57	52	49	48			48
10	67	57	50	46	66	56	50	46	55	50	46	55	49	46	54	49	46	44			44

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	69255
5°	69266
10°	70668
15°	72670
20°	71893
25°	68061
30°	61501
35°	49331
40°	32873
45°	16601
50°	9260
55°	5491
60°	2037
65°	411
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16601 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.7	7.2
10°-20°	249.4	21.3
20°-30°	356.5	30.5
30°-40°	313.3	26.8
40°-50°	127.0	10.8
50°-60°	36.7	3.1
60°-70°	4.0	0.3
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°	689.7	58.9
0°-40°	1002.9	85.7
0°-60°	1166.6	99.7
0°-90°	1170.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1170.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	877	
5°	874	84
15°	889	249
25°	781	357
35°	512	313
45°	149	127
55°	40	37
65°	2	4
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	877.3
2.5°	877.3
5°	874.1
7.5°	876.2
10°	881.6
12.5°	888.1
15°	889.2
17.5°	878.4
20°	855.8
22.5°	822.4
25°	781.4
27.5°	732.9
30°	674.7
32.5°	600.3
35°	511.9
37.5°	413.9
40°	319.0
42.5°	225.3
45°	148.7
47.5°	98.1
50°	75.4
52.5°	56.0
55°	39.9
57.5°	25.9
60°	12.9
62.5°	6.5
65°	2.2
67.5°	1.1
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

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— 0°-180°

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