

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: P640420

Luminaire Tested: ML5609LSVWFL75D2W1E - 692SC - 900LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640420
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-83)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5609LSVWFL75D2W1E - 692SC - 900LM - 3000K
Description: ML56 RR, 75D TIR OPTIC, 6" SPECULAR CLEAR TRIM
Light Source: (1) D2W SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1179.1 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.02 / 1.01
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

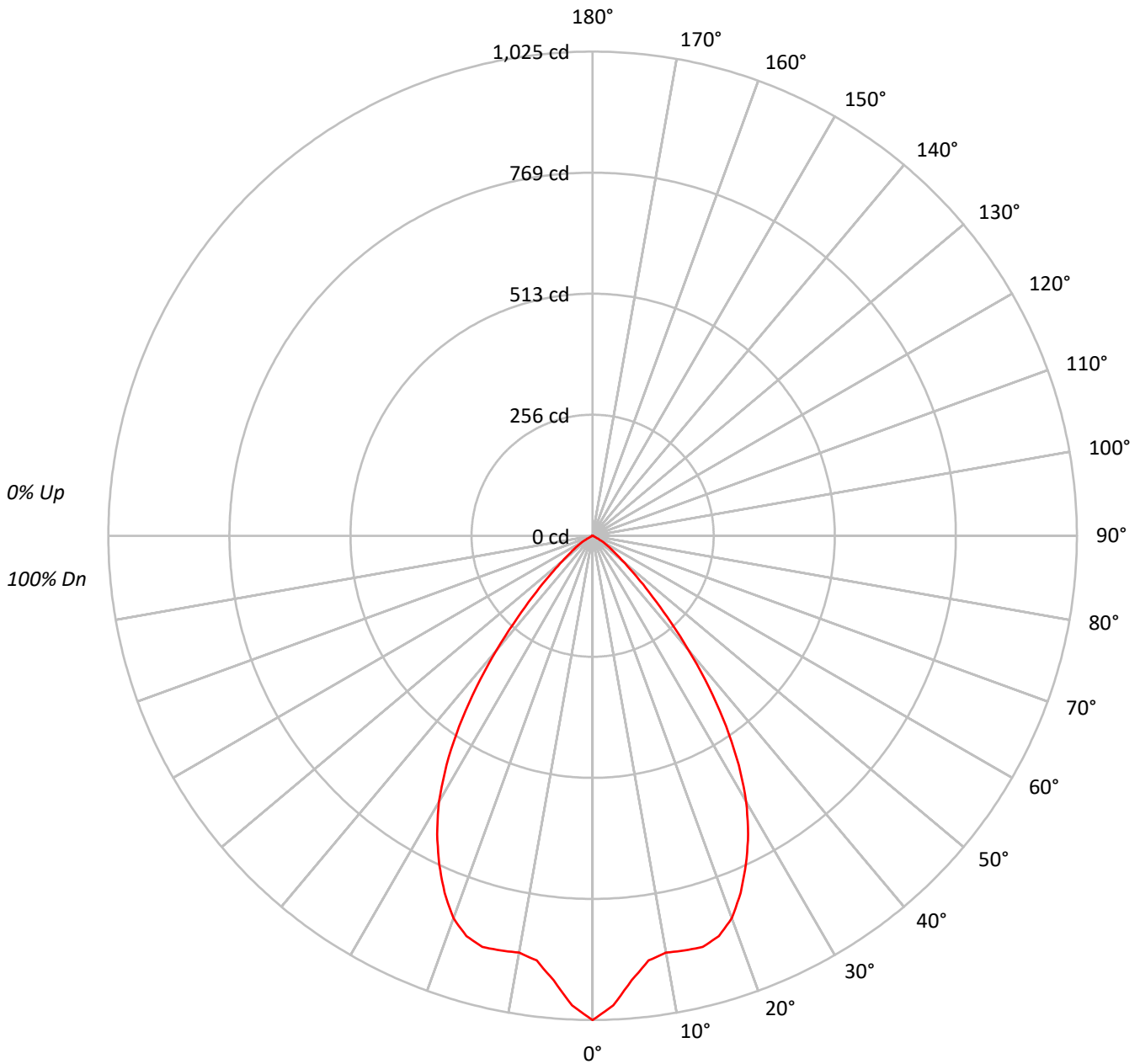
Input Watts (W): 11.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	105	103	104	102	100	100	99	97	97	95	94				92
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86				85
3	101	94	88	84	99	92	87	83	89	85	82	87	83	80	85	82	79				78
4	95	86	80	76	93	85	80	75	83	78	74	81	77	73	79	76	73				71
5	89	80	74	69	88	79	73	69	77	72	68	76	71	67	74	70	67				65
6	84	74	68	63	83	74	67	63	72	66	62	70	66	62	69	65	61				60
7	79	69	63	58	78	68	62	58	67	62	57	66	61	57	65	60	57				55
8	75	65	58	53	74	64	58	53	63	57	53	62	57	53	61	56	53				51
9	71	60	54	50	70	60	54	49	59	53	49	58	53	49	57	52	49				47
10	67	57	50	46	66	56	50	46	55	50	46	54	49	46	54	49	46				44

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	56207
5°	51975
10°	49877
15°	51152
20°	50259
25°	46436
30°	41152
35°	32973
40°	22607
45°	13040
50°	7079
55°	4224
60°	2248
65°	558
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13040 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.6	7.5
10°-20°	252.4	21.4
20°-30°	350.6	29.7
30°-40°	303.0	25.7
40°-50°	137.0	11.6
50°-60°	41.3	3.5
60°-70°	6.2	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°	691.6	58.7
0°-40°	994.7	84.4
0°-60°	1173.0	99.5
0°-90°	1179.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1179.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1025	
5°	944	89
15°	901	252
25°	768	351
35°	493	303
45°	168	137
55°	44	41
65°	4	6
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1025.3
2.5°	995.1
5°	944.5
7.5°	906.7
10°	896.0
12.5°	899.2
15°	901.3
17.5°	888.4
20°	861.5
22.5°	818.3
25°	767.7
27.5°	712.7
30°	650.1
32.5°	575.7
35°	492.7
37.5°	404.3
40°	315.9
42.5°	234.0
45°	168.2
47.5°	118.6
50°	83.0
52.5°	59.3
55°	44.2
57.5°	31.3
60°	20.5
62.5°	9.7
65°	4.3
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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(END OF REPORT)