

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: P641463

Luminaire Tested: ML5612LSVWFL7597FS1E - 692W - 600LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641463
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-85)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSVWFL7597FS1E - 692W - 600LM - 3500K
Description: ML56 RR, 75D TIR OPTIC, 6" WHITE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 983.0 lumens
Efficiency: N/A
Efficacy: 95.4 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

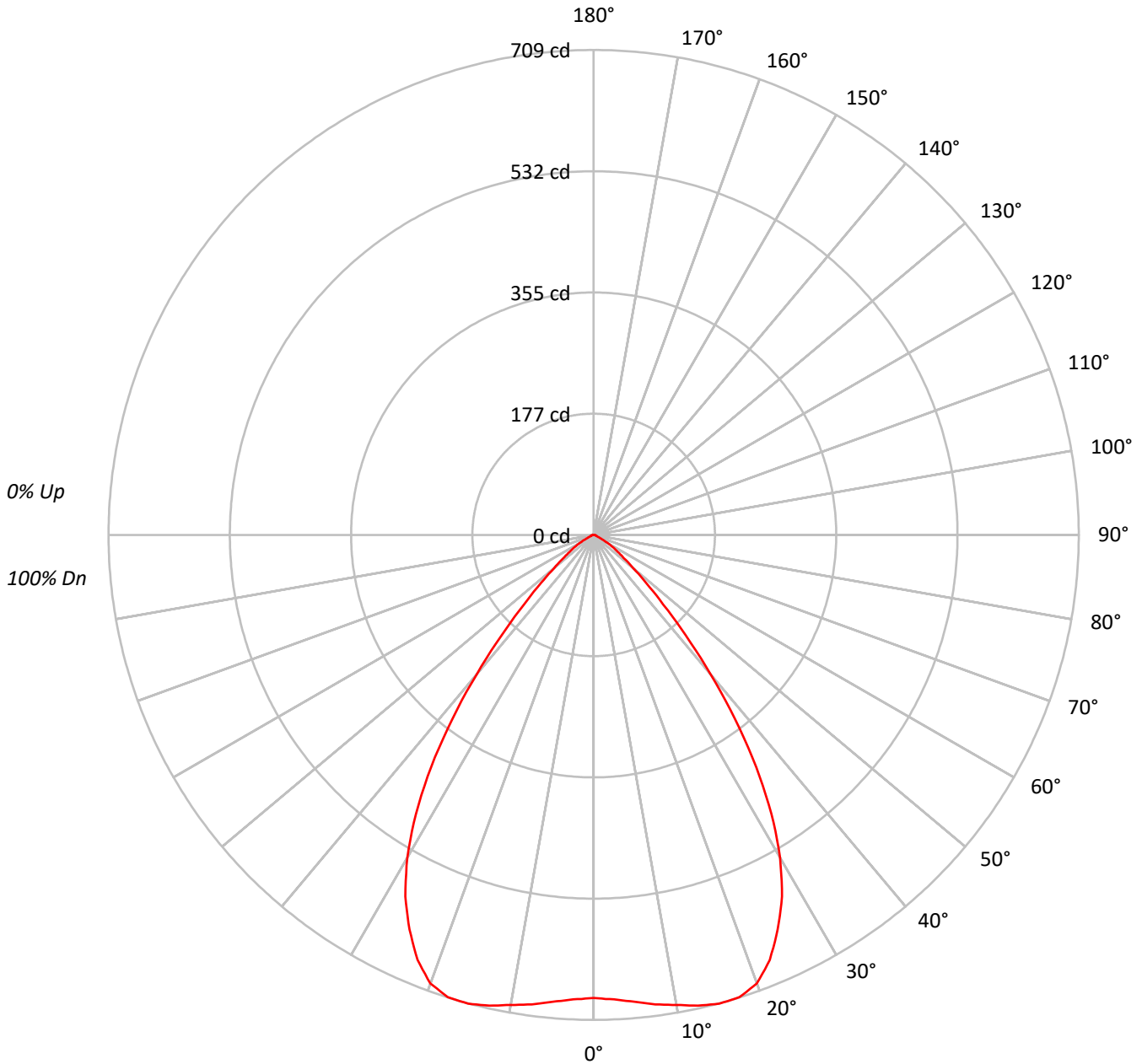
Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	100	100	98	97	96	95	94	92	92	92	92
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	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	56	77	67	61	56	66	60	56	65	60	56	63	59	55	54	54	54	54
8	74	63	57	52	73	63	56	52	62	56	52	60	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	47	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°	37113
5°	37701
10°	38838
15°	40261
20°	40703
25°	38506
30°	34493
35°	27740
40°	19043
45°	11156
50°	6439
55°	4129
60°	2467
65°	1167
70°	721
75°	763
80°	568
85°	566

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11156 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.8	6.7
10°-20°	199.9	20.3
20°-30°	290.3	29.5
30°-40°	254.5	25.9
40°-50°	117.6	12.0
50°-60°	40.0	4.1
60°-70°	10.2	1.0
70°-80°	3.7	0.4
80°-90°	1.0	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°	556.0	56.6
0°-40°	810.6	82.5
0°-60°	968.2	98.5
0°-90°	983.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	983.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	677	
5°	685	66
15°	709	200
25°	637	290
35°	414	255
45°	144	118
55°	43	40
65°	9	10
75°	4	4
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	677.0
2.5°	679.7
5°	685.1
7.5°	692.3
10°	697.7
12.5°	704.9
15°	709.4
17.5°	708.5
20°	697.7
22.5°	672.5
25°	636.6
27.5°	596.1
30°	544.9
32.5°	483.7
35°	414.5
37.5°	339.0
40°	266.1
42.5°	198.7
45°	143.9
47.5°	104.3
50°	75.5
52.5°	55.7
55°	43.2
57.5°	32.4
60°	22.5
62.5°	13.5
65°	9.0
67.5°	5.4
70°	4.5
72.5°	4.5
75°	3.6
77.5°	2.7
80°	1.8
82.5°	1.8
85°	0.9
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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