

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: P641536

Luminaire Tested: ML5612LSVWFL7597FS1E - 694TBZB - 600LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641536
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-91)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSVWFL7597FS1E - 694TBZB - 600LM - 2700K
Description: ML56 RR, 75D TIR OPTIC, 6" TUSCON BRONZE GIMBAL TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 933.7 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.08
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

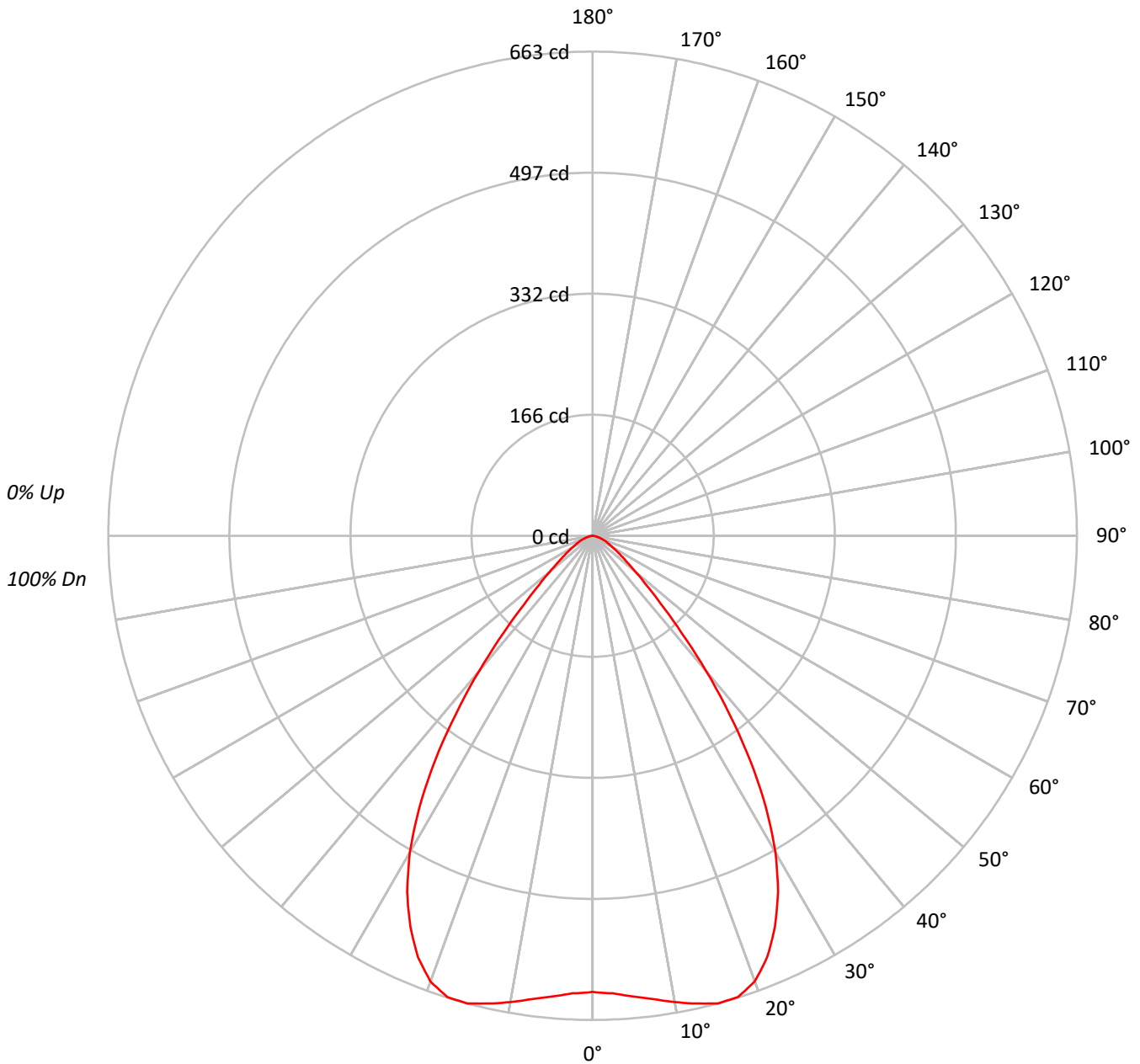
Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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			
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83			
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75			
4	93	84	78	73	91	83	77	73	81	76	72	79	74	71	77	73	70	68			
5	88	78	71	66	86	77	71	66	75	69	65	73	68	65	72	67	64	62			
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	57			
7	78	67	60	55	76	66	60	55	65	59	55	64	58	54	62	58	54	53			
8	73	62	55	51	72	62	55	51	61	55	50	59	54	50	58	54	50	48			
9	69	58	51	47	68	58	51	47	57	51	47	56	50	46	55	50	46	45			
10	65	54	48	44	64	54	48	43	53	47	43	52	47	43	51	47	43	42			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	34246
5°	34845
10°	36099
15°	37622
20°	37879
25°	35730
30°	31688
35°	25197
40°	17275
45°	10210
50°	6524
55°	4549
60°	3443
65°	2867
70°	2308
75°	1800
80°	1073
85°	503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10210 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.9	6.5
10°-20°	186.5	20.0
20°-30°	268.8	28.8
30°-40°	231.9	24.8
40°-50°	108.7	11.6
50°-60°	44.5	4.8
60°-70°	22.2	2.4
70°-80°	9.0	1.0
80°-90°	1.1	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°	516.2	55.3
0°-40°	748.1	80.1
0°-60°	901.3	96.5
0°-90°	933.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	933.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	625	
5°	633	61
15°	663	186
25°	591	269
35°	376	232
45°	132	109
55°	48	45
65°	22	22
75°	8	9
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	624.7
2.5°	627.2
5°	633.2
7.5°	640.0
10°	648.5
12.5°	656.1
15°	662.9
17.5°	662.1
20°	649.3
22.5°	624.7
25°	590.7
27.5°	549.9
30°	500.6
32.5°	442.0
35°	376.5
37.5°	307.7
40°	241.4
42.5°	180.2
45°	131.7
47.5°	99.4
50°	76.5
52.5°	59.5
55°	47.6
57.5°	39.1
60°	31.4
62.5°	26.3
65°	22.1
67.5°	18.7
70°	14.4
72.5°	11.0
75°	8.5
77.5°	5.9
80°	3.4
82.5°	1.7
85°	0.8
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)