

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: P641539

Luminaire Tested: ML5612LSVWFL7597FS1E - 694TBZB - 600LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641539
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 - 4000K
Description: ML56 RR, 75D TIR OPTIC, 6" TUSCON BRONZE GIMBAL TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

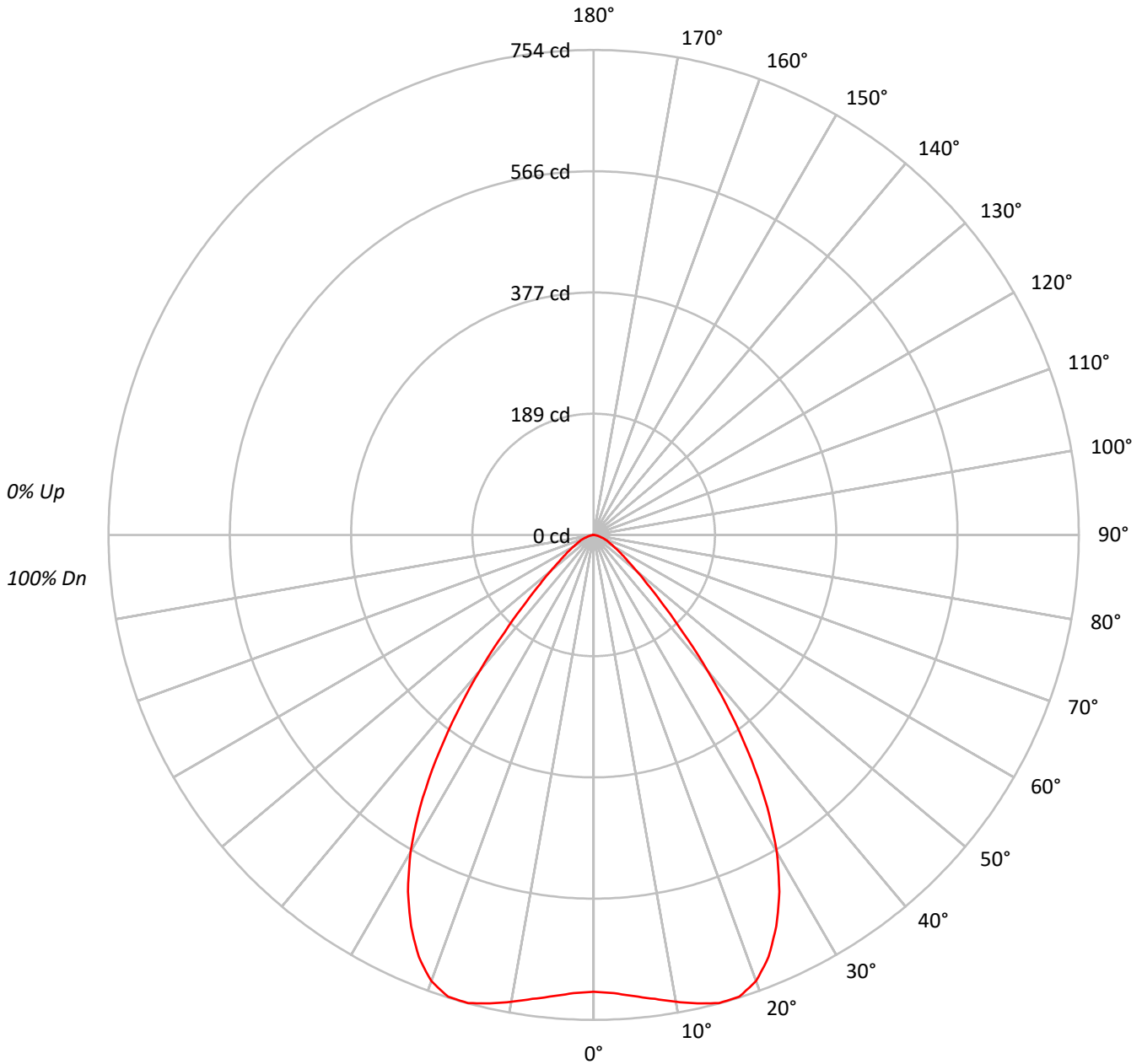
Lumens per Lamp: N/A
Luminaire Lumens: 1061.5 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.08
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	38933
5°	39610
10°	41037
15°	42770
20°	43065
25°	40617
30°	36025
35°	28643
40°	19637
45°	11614
50°	7420
55°	5171
60°	3914
65°	3256
70°	2629
75°	2055
80°	1231
85°	629

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11614 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.2	6.5
10°-20°	212.0	20.0
20°-30°	305.6	28.8
30°-40°	263.6	24.8
40°-50°	123.5	11.6
50°-60°	50.6	4.8
60°-70°	25.3	2.4
70°-80°	10.3	1.0
80°-90°	1.3	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°	586.8	55.3
0°-40°	850.4	80.1
0°-60°	1024.6	96.5
0°-90°	1061.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1061.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	710	
5°	720	69
15°	754	212
25°	672	306
35°	428	264
45°	150	124
55°	54	51
65°	25	25
75°	10	10
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	710.2
2.5°	713.1
5°	719.8
7.5°	727.6
10°	737.2
12.5°	745.9
15°	753.6
17.5°	752.7
20°	738.2
22.5°	710.2
25°	671.5
27.5°	625.1
30°	569.1
32.5°	502.4
35°	428.0
37.5°	349.8
40°	274.4
42.5°	204.8
45°	149.8
47.5°	113.0
50°	87.0
52.5°	67.6
55°	54.1
57.5°	44.4
60°	35.7
62.5°	30.0
65°	25.1
67.5°	21.3
70°	16.4
72.5°	12.6
75°	9.7
77.5°	6.8
80°	3.9
82.5°	1.9
85°	1.0
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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