

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: P641333

Luminaire Tested: ML5612LSVWFL7597FS1E - 593TBZB - 900LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641333
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-77)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSVWFL7597FS1E - 593TBZB - 900LM - 3500K
Description: ML56 RR, 75D TIR OPTIC, 5" TUSCON BRONZE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

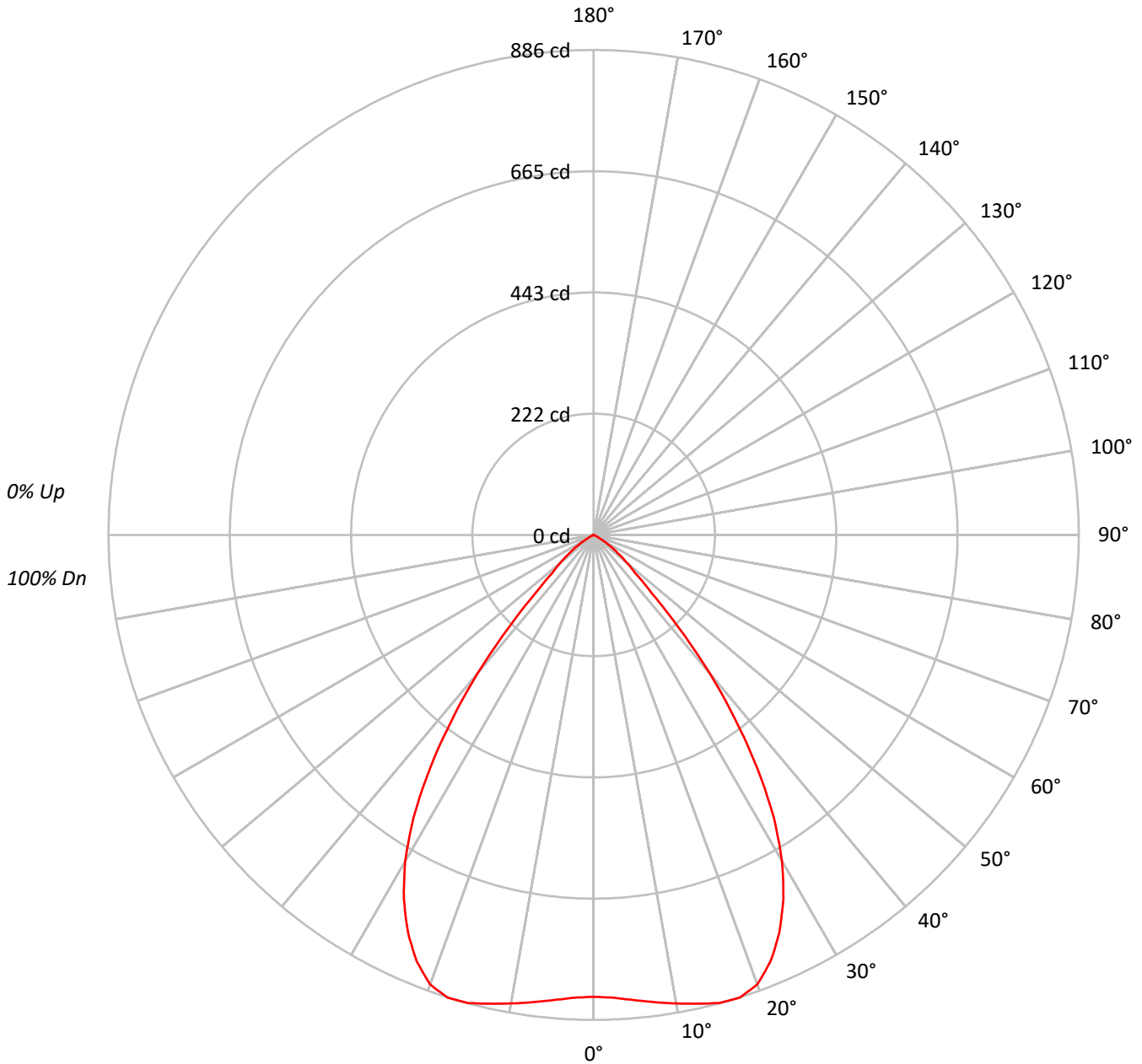
Lumens per Lamp: N/A
Luminaire Lumens: 1189.6 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.09
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 13.3
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



TEST NUMBER: P641333
CATALOG NUMBER: ML5612LSVWFL7597FS1E - 593TBZB - 900LM - 3500K

Luminous Intensity Polar Plot





TEST NUMBER: P641333

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 593TBZB - 900LM - 3500K

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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	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	73	67	63	72	66	62		70	66	62		69	65	61	60
7	79	69	62	58	78	68	62	58	67	61	57		66	61	57		65	60	57	55
8	75	64	58	53	74	64	58	53	63	57	53		62	56	53		61	56	52	51
9	71	60	54	49	70	60	53	49	59	53	49		58	53	49		57	52	49	47
10	67	56	50	46	66	56	50	46	55	49	46		54	49	45		53	49	45	44

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	66610
5°	67602
10°	69674
15°	72352
20°	73405
25°	69882
30°	62732
35°	50324
40°	33852
45°	16735
50°	9763
55°	5877
60°	2005
65°	430
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16735 cd/sqm



TEST NUMBER: P641333

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 593TBZB - 900LM - 3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.9	6.9
10°-20°	249.6	21.0
20°-30°	365.2	30.7
30°-40°	320.1	26.9
40°-50°	129.9	10.9
50°-60°	38.8	3.3
60°-70°	4.1	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°	696.8	58.6
0°-40°	1016.9	85.5
0°-60°	1185.5	99.7
0°-90°	1189.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1189.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	844	
5°	853	82
15°	885	250
25°	802	365
35°	522	320
45°	150	130
55°	43	39
65°	2	4
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P641333

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 593TBZB - 900LM - 3500K

CANDELA DISTRIBUTION (FULL):

0°	
0°	843.8
2.5°	846.1
5°	853.1
7.5°	861.1
10°	869.2
12.5°	877.3
15°	885.3
17.5°	886.5
20°	873.8
22.5°	843.8
25°	802.3
27.5°	750.5
30°	688.2
32.5°	612.1
35°	522.2
37.5°	424.2
40°	328.5
42.5°	229.4
45°	149.9
47.5°	101.4
50°	79.5
52.5°	58.8
55°	42.7
57.5°	27.7
60°	12.7
62.5°	6.9
65°	2.3
67.5°	1.2
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

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



— 0°-180°

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)