

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: P641544

Luminaire Tested: ML5612LSVWFL7597FS1E - 694TBZB - 900LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641544
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 - 900LM - 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

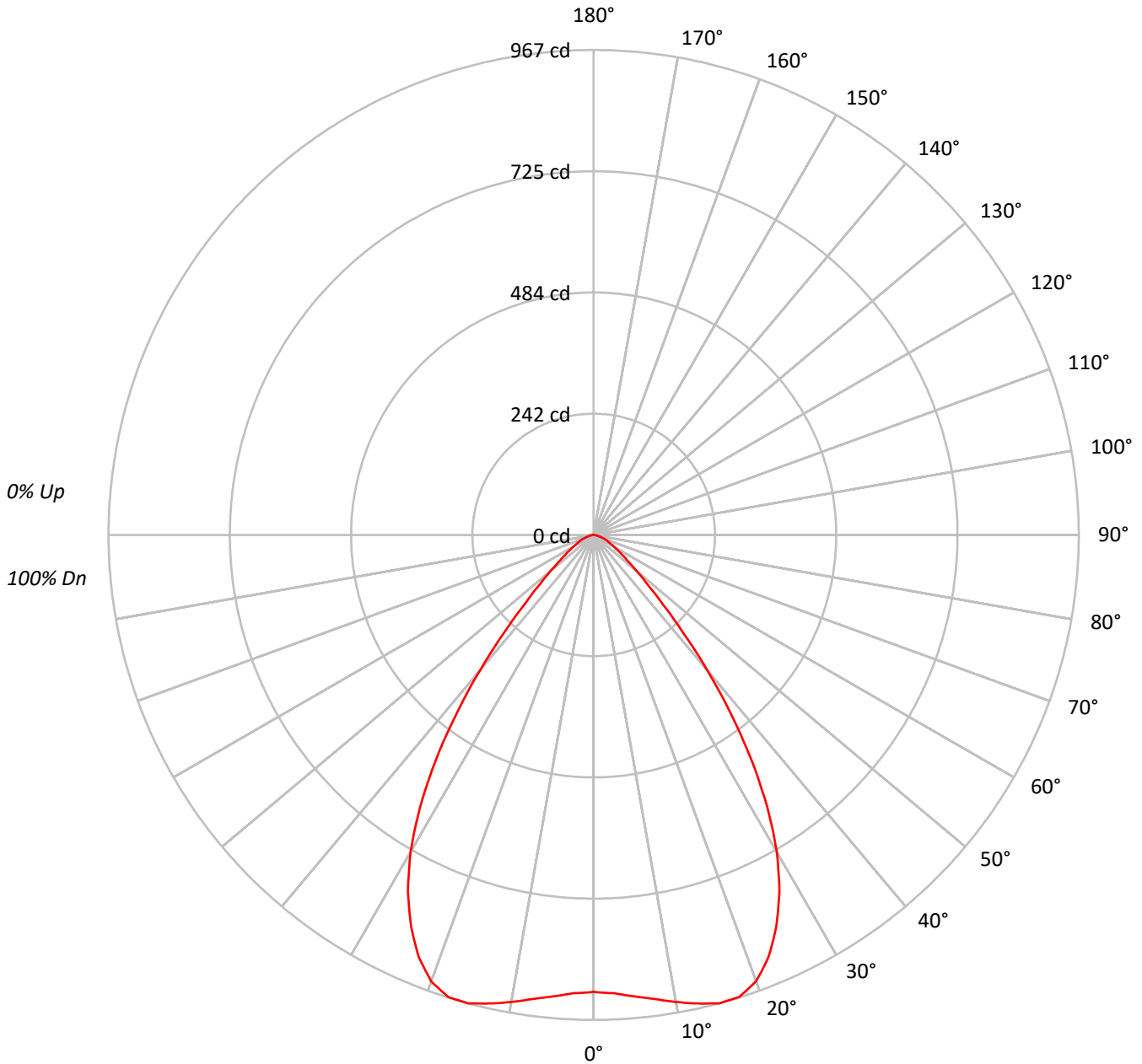
Lumens per Lamp: N/A
Luminaire Lumens: 1361.8 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.08
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 13.3
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	100	100	100	100		
	1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91	91	91	91	91	91		
	2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83	83	83	83	83	83		
	3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75	75	75	75	75	75		
	4	93	84	78	73	91	83	77	73	81	76	72	79	74	71	77	73	70	68	68	68	68	68	68		
	5	88	78	71	66	86	77	71	66	75	69	65	73	68	65	72	67	64	62	62	62	62	62	62		
	6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	57	57	57	57	57	57		
	7	78	67	60	55	76	66	60	55	65	59	55	64	58	54	62	58	54	52	52	52	52	52	52		
	8	73	62	55	51	72	62	55	51	61	55	50	59	54	50	58	54	50	48	48	48	48	48	48		
	9	69	58	51	47	68	58	51	47	57	51	47	56	50	46	55	50	46	45	45	45	45	45	45		
	10	65	54	48	44	64	54	48	43	53	47	43	52	47	43	51	47	43	42	42	42	42	42	42		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	49947
5°	50820
10°	52649
15°	54875
20°	55252
25°	52110
30°	46216
35°	36747
40°	25190
45°	14893
50°	9518
55°	6633
60°	5032
65°	4177
70°	3382
75°	2626
80°	1578
85°	755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14893 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.8	6.5
10°-20°	272.0	20.0
20°-30°	392.0	28.8
30°-40°	338.2	24.8
40°-50°	158.5	11.6
50°-60°	64.9	4.8
60°-70°	32.5	2.4
70°-80°	13.2	1.0
80°-90°	1.7	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°	752.8	55.3
0°-40°	1091.0	80.1
0°-60°	1314.5	96.5
0°-90°	1361.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1361.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	911	
5°	924	89
15°	967	272
25°	862	392
35°	549	338
45°	192	158
55°	69	65
65°	32	32
75°	12	13
85°	1	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	911.1
2.5°	914.8
5°	923.5
7.5°	933.4
10°	945.8
12.5°	957.0
15°	966.9
17.5°	965.7
20°	947.1
22.5°	911.1
25°	861.5
27.5°	802.0
30°	730.1
32.5°	644.6
35°	549.1
37.5°	448.7
40°	352.0
42.5°	262.8
45°	192.1
47.5°	145.0
50°	111.6
52.5°	86.8
55°	69.4
57.5°	57.0
60°	45.9
62.5°	38.4
65°	32.2
67.5°	27.3
70°	21.1
72.5°	16.1
75°	12.4
77.5°	8.7
80°	5.0
82.5°	2.5
85°	1.2
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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