

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: P641322

Luminaire Tested: ML5612LSVWFL7597FS1E - 593TBZB - 1200LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641322
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 - 1200LM - 3000K
Description: ML56 RR, 75D TIR OPTIC, 5" TUSCON BRONZE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

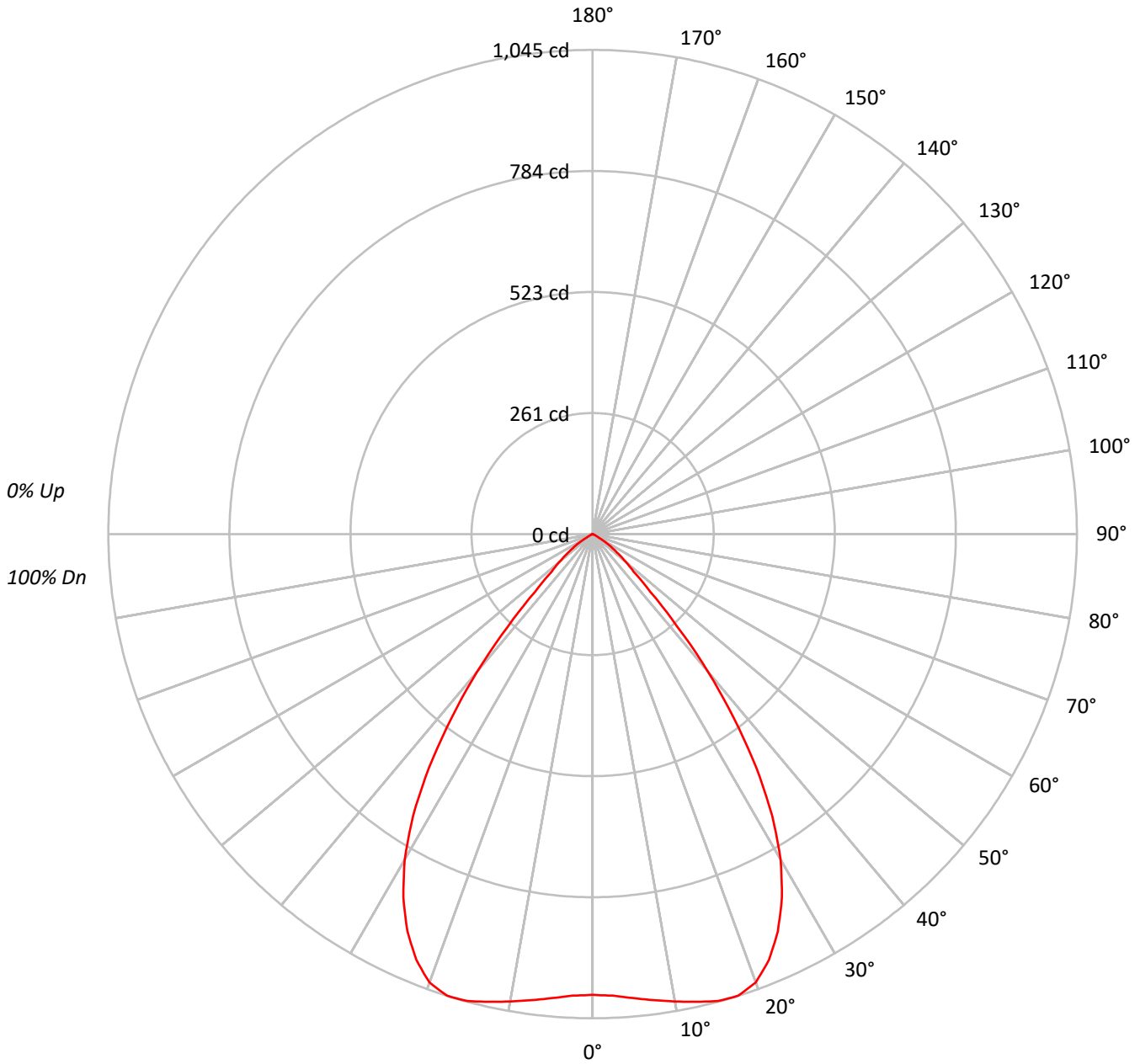
Lumens per Lamp: N/A
Luminaire Lumens: 1401.9 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.09
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 16.5
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	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°	78499
5°	79662
10°	82107
15°	85273
20°	86511
25°	82355
30°	73925
35°	59306
40°	39901
45°	19716
50°	11507
55°	6923
60°	2352
65°	504
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 19716 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.6	6.9
10°-20°	294.2	21.0
20°-30°	430.4	30.7
30°-40°	377.3	26.9
40°-50°	153.1	10.9
50°-60°	45.7	3.3
60°-70°	4.8	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°	821.1	58.6
0°-40°	1198.4	85.5
0°-60°	1397.1	99.7
0°-90°	1401.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1401.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	994	
5°	1005	97
15°	1043	294
25°	946	430
35°	615	377
45°	177	153
55°	50	46
65°	3	5
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	994.4
2.5°	997.2
5°	1005.3
7.5°	1014.8
10°	1024.3
12.5°	1033.8
15°	1043.4
17.5°	1044.7
20°	1029.8
22.5°	994.4
25°	945.5
27.5°	884.4
30°	811.0
32.5°	721.4
35°	615.4
37.5°	499.9
40°	387.2
42.5°	270.3
45°	176.6
47.5°	119.6
50°	93.7
52.5°	69.3
55°	50.3
57.5°	32.6
60°	14.9
62.5°	8.2
65°	2.7
67.5°	1.4
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

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— 0°-180°

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