

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: P640979

Luminaire Tested: ML5612LSNFL2597FS1E - 593TBZB - 1200LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640979
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-8)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSNFL2597FS1E - 593TBZB - 1200LM - 4000K
Description: ML56 RR, 25D TIR OPTIC, 5" TUSCON BRONZE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1463.4 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

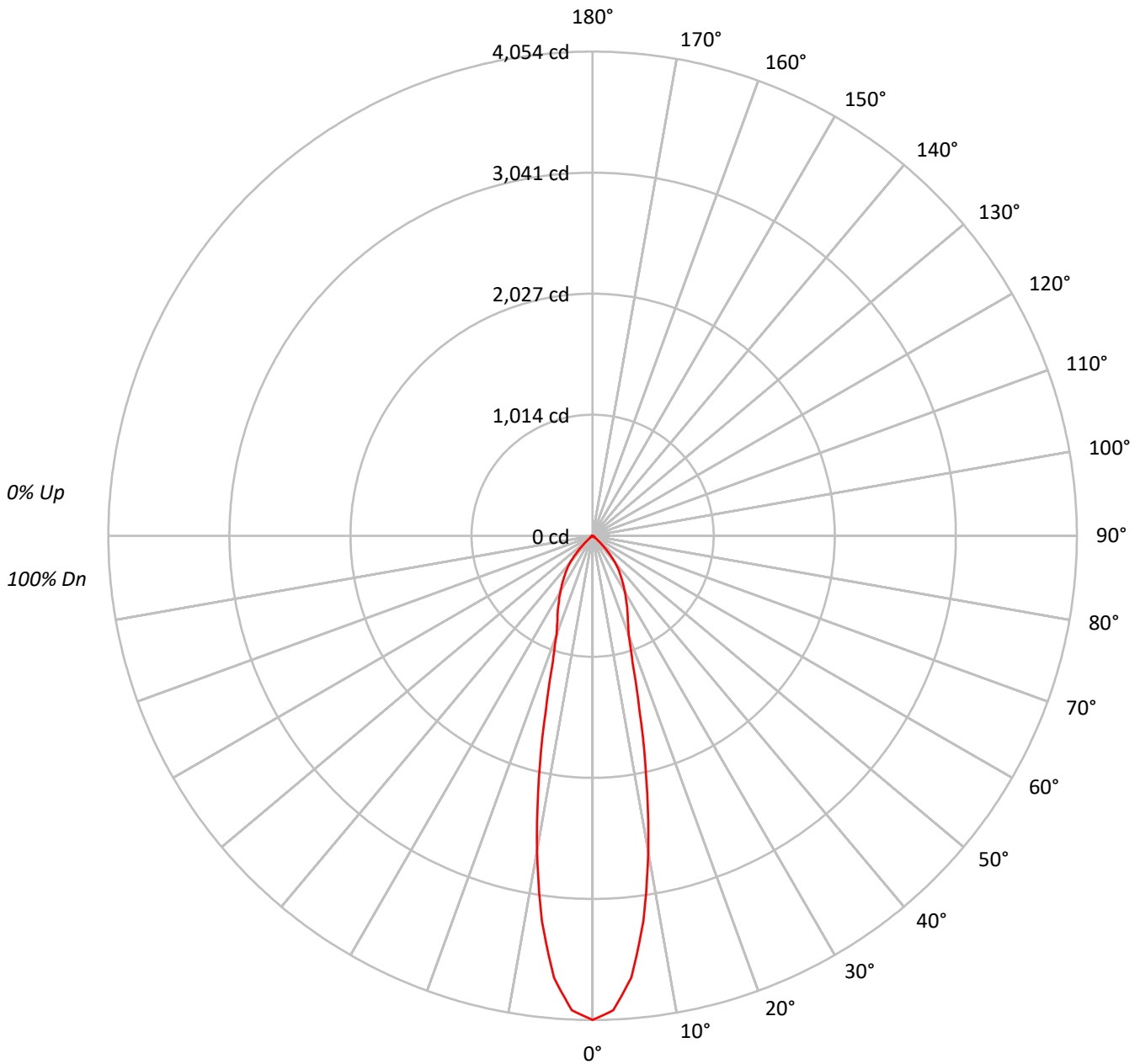
Input Watts (W): 16.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	114	111	109	107	112	109	107	105	105	104	102		101	100	99		98	97	96	94
2	109	104	101	97	107	103	99	96	99	97	94		96	94	92		94	92	90	89
3	104	98	93	90	102	97	92	89	94	90	88		92	89	86		89	87	85	83
4	99	92	87	83	97	91	86	83	89	85	82		87	84	81		85	82	80	78
5	95	87	82	78	93	86	81	77	84	80	77		83	79	76		81	78	75	74
6	91	82	77	73	89	82	77	73	80	76	72		79	75	72		78	74	71	70
7	87	78	73	69	86	78	72	69	76	72	68		75	71	68		74	71	68	66
8	83	75	69	65	82	74	69	65	73	68	65		72	68	65		71	67	64	63
9	80	71	66	62	79	71	66	62	70	65	62		69	65	62		68	64	61	60
10	77	68	63	59	76	68	63	59	67	62	59		66	62	59		65	62	59	58

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	320019
5°	294219
10°	215034
15°	123487
20°	73943
25°	59917
30°	49013
35°	39511
40°	30183
45°	16936
50°	4421
55°	2271
60°	1421
65°	560
70°	346
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16936 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.6	21.9
10°-20°	431.8	29.5
20°-30°	316.7	21.6
30°-40°	256.4	17.5
40°-50°	116.9	8.0
50°-60°	16.6	1.1
60°-70°	3.9	0.3
70°-80°	0.6	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°	1069.1	73.1
0°-40°	1325.5	90.6
0°-60°	1459.0	99.7
0°-90°	1463.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1463.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4054	
5°	3713	321
15°	1511	432
25°	688	317
35°	410	256
45°	152	117
55°	16	17
65°	3	4
75°	0	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4053.9
2.5°	3977.3
5°	3712.9
7.5°	3251.8
10°	2682.6
12.5°	2072.8
15°	1511.0
17.5°	1105.5
20°	880.2
22.5°	769.0
25°	687.9
27.5°	609.8
30°	537.7
32.5°	471.6
35°	410.0
37.5°	354.5
40°	292.9
42.5°	217.8
45°	151.7
47.5°	84.1
50°	36.0
52.5°	22.5
55°	16.5
57.5°	13.5
60°	9.0
62.5°	6.0
65°	3.0
67.5°	1.5
70°	1.5
72.5°	1.5
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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