

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: P641007

Luminaire Tested: ML5612LSNFL2597FS1E - 594SNB - 1200LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641007
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSNFL2597FS1E - 594SNB - 1200LM - 3000K
Description: ML56 RR, 25D TIR OPTIC, 5" SATIN NICKLE GIMBAL TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1484.8 lumens
Efficiency: N/A
Efficacy: 90.0 lumens/watt
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.43
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

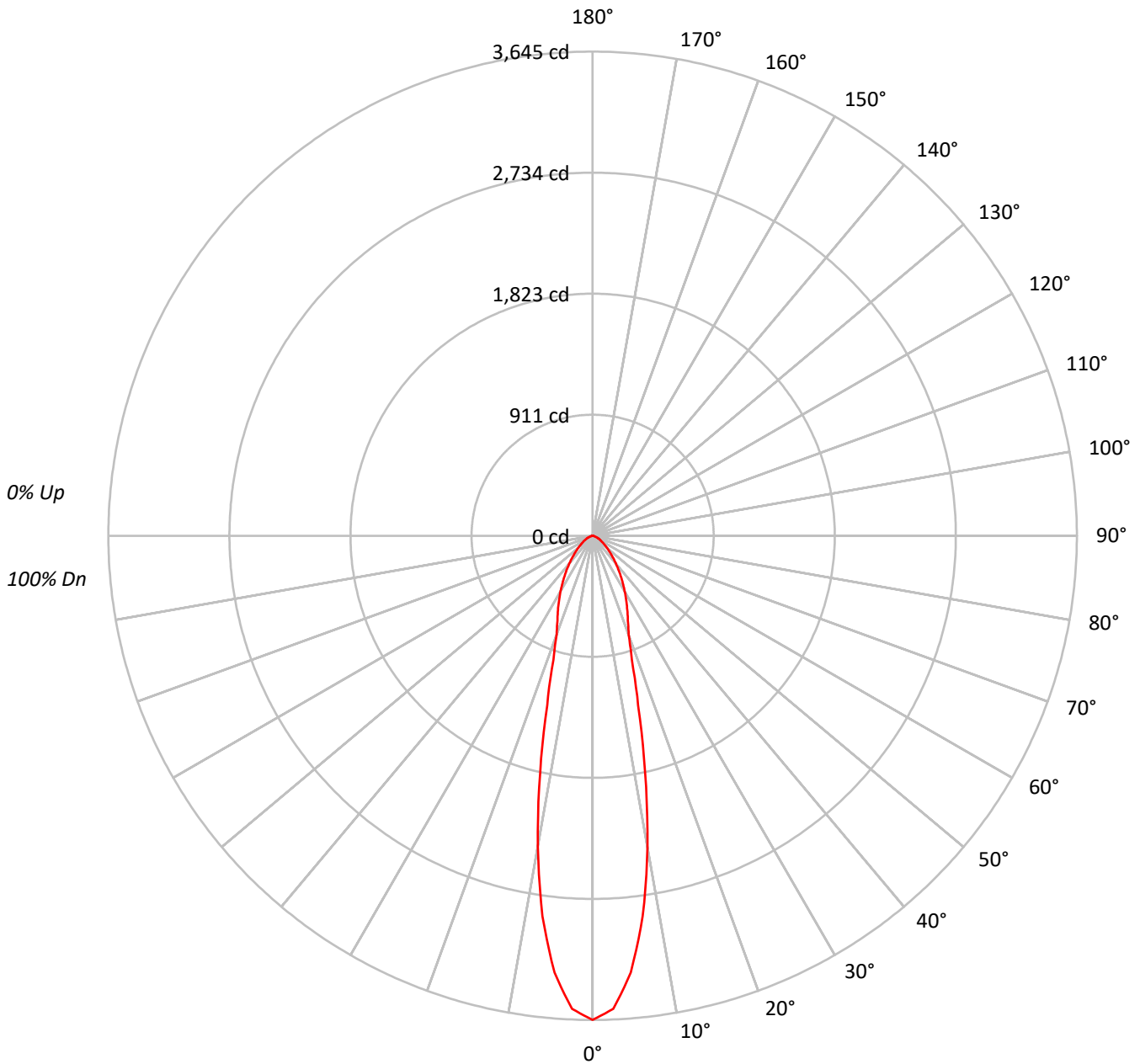
Input Watts (W): 16.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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	102	97	94	105	100	96	93	97	93	91		94	91	89		91	89	87	85
3	101	94	89	85	99	93	88	84	90	86	83		88	84	81		85	83	80	78
4	96	88	82	78	94	87	81	77	84	80	76		82	78	75		81	77	74	73
5	91	82	76	72	89	81	76	71	79	74	71		78	73	70		76	72	69	68
6	86	77	71	67	85	76	71	66	75	70	66		74	69	66		72	68	65	64
7	82	73	67	62	81	72	66	62	71	66	62		70	65	62		69	64	61	60
8	79	69	63	59	77	68	63	59	67	62	58		66	62	58		65	61	58	57
9	75	66	60	56	74	65	59	56	64	59	55		63	59	55		62	58	55	54
10	72	63	57	53	71	62	57	53	61	56	53		61	56	53		60	55	52	51

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	287724
5°	261484
10°	190569
15°	108025
20°	66416
25°	53724
30°	43963
35°	35348
40°	27999
45°	21993
50°	17181
55°	13460
60°	10720
65°	8630
70°	6278
75°	3325
80°	1864
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 21993 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.3	19.2
10°-20°	381.0	25.7
20°-30°	284.5	19.2
30°-40°	230.1	15.5
40°-50°	153.6	10.3
50°-60°	89.1	6.0
60°-70°	46.6	3.1
70°-80°	13.4	0.9
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°	950.7	64.0
0°-40°	1180.8	79.5
0°-60°	1423.5	95.9
0°-90°	1484.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1484.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3645	
5°	3300	285
15°	1322	381
25°	617	284
35°	367	230
45°	197	154
55°	98	89
65°	46	47
75°	11	13
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3644.8
2.5°	3564.7
5°	3299.8
7.5°	2889.5
10°	2377.4
12.5°	1821.7
15°	1321.8
17.5°	979.5
20°	790.6
22.5°	692.8
25°	616.8
27.5°	547.5
30°	482.3
32.5°	421.1
35°	366.8
37.5°	316.5
40°	271.7
42.5°	232.3
45°	197.0
47.5°	165.7
50°	139.9
52.5°	116.8
55°	97.8
57.5°	81.5
60°	67.9
62.5°	57.1
65°	46.2
67.5°	38.0
70°	27.2
72.5°	17.7
75°	10.9
77.5°	6.8
80°	4.1
82.5°	2.7
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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