

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: P640959

Luminaire Tested: ML5612LSNFL2597FS1E - 593BB - 900LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640959
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSNFL2597FS1E - 593BB - 900LM - 4000K
Description: ML56 RR, 25D TIR OPTIC, 5" BLACK BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1187.3 lumens
Efficiency: N/A
Efficacy: 89.3 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

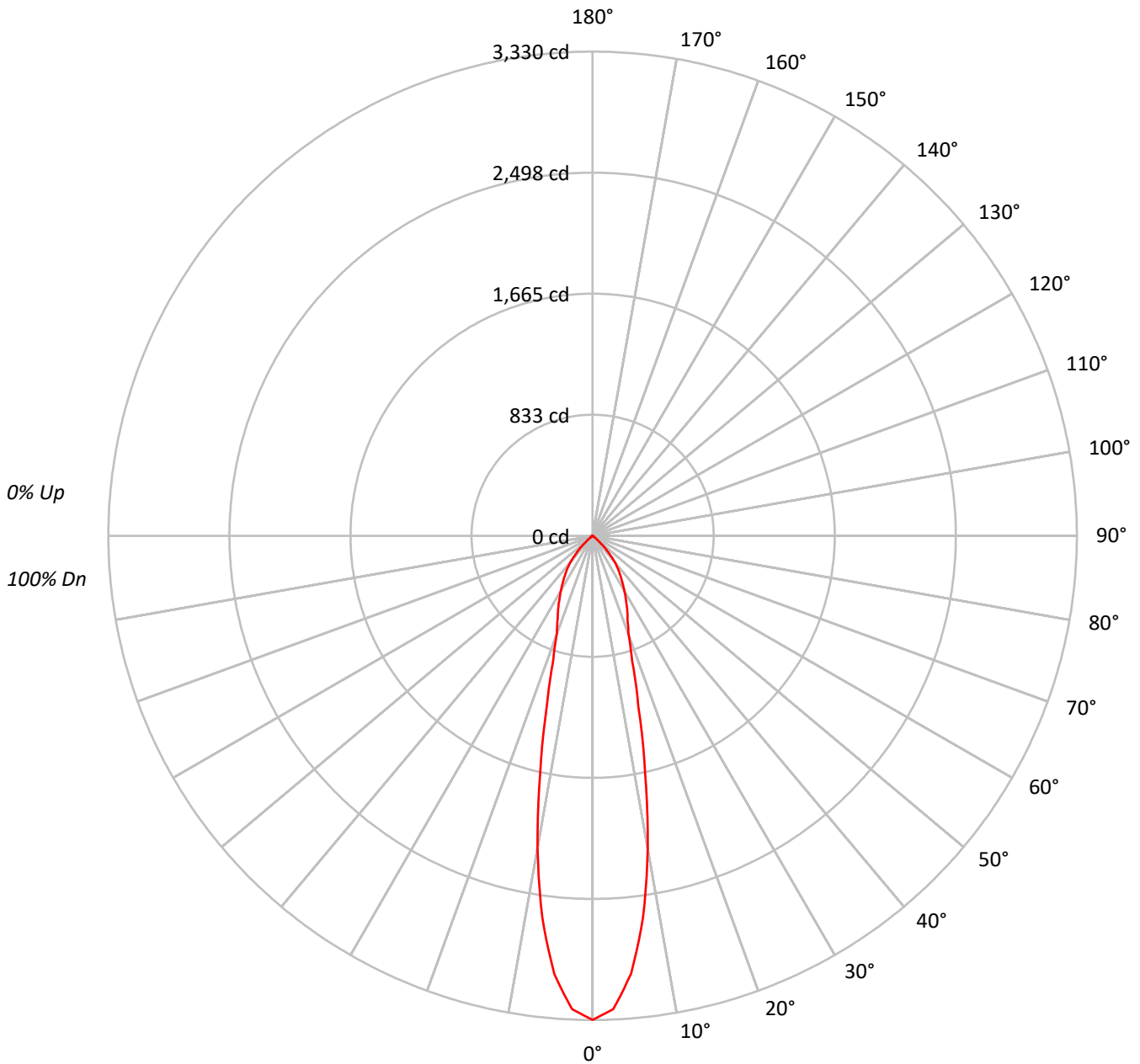
Input Watts (W): 13.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100
1	114	111	109	107	112	109	107	105	105	104	102	102	100	99	98	97	96	94			94
2	109	104	101	97	107	103	99	96	99	97	94	96	94	92	94	92	90	89			89
3	104	98	93	90	102	97	92	89	94	91	88	92	89	86	89	87	85	83			83
4	99	92	87	83	98	91	86	83	89	85	82	87	84	81	85	82	80	79			79
5	95	87	82	78	93	86	81	78	85	80	77	83	79	76	81	78	76	74			74
6	91	83	77	73	89	82	77	73	80	76	72	79	75	72	78	74	72	70			70
7	87	78	73	69	86	78	73	69	77	72	69	75	71	68	74	71	68	67			67
8	83	75	69	66	82	74	69	65	73	68	65	72	68	65	71	67	65	63			63
9	80	71	66	62	79	71	66	62	70	65	62	69	65	62	68	64	62	60			60
10	77	68	63	59	76	68	63	59	67	62	59	66	62	59	66	62	59	58			58

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	262857
5°	239669
10°	174986
15°	99395
20°	60578
25°	48969
30°	39706
35°	31937
40°	24557
45°	14134
50°	3353
55°	1541
60°	1168
65°	467
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14134 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.6	22.0
10°-20°	349.5	29.4
20°-30°	258.5	21.8
30°-40°	207.5	17.5
40°-50°	95.8	8.1
50°-60°	11.8	1.0
60°-70°	2.7	0.2
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°	869.6	73.2
0°-40°	1077.0	90.7
0°-60°	1184.6	99.8
0°-90°	1187.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1187.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3330	
5°	3024	262
15°	1216	350
25°	562	258
35°	331	207
45°	127	96
55°	11	12
65°	2	3
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3329.8
2.5°	3259.0
5°	3024.5
7.5°	2652.1
10°	2183.0
12.5°	1666.7
15°	1216.2
17.5°	901.0
20°	721.1
22.5°	629.2
25°	562.2
27.5°	496.4
30°	435.6
32.5°	381.0
35°	331.4
37.5°	286.7
40°	238.3
42.5°	177.5
45°	126.6
47.5°	69.5
50°	27.3
52.5°	16.1
55°	11.2
57.5°	8.7
60°	7.4
62.5°	3.7
65°	2.5
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

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— 0°-180°

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(END OF REPORT)