

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: P640897

Luminaire Tested: ML5612LSNFL2597FS1E - 591WB - 900LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640897
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSNFL2597FS1E - 591WB - 900LM - 3000K
Description: ML56 RR, 25D TIR OPTIC, 5" DEADFRONT TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

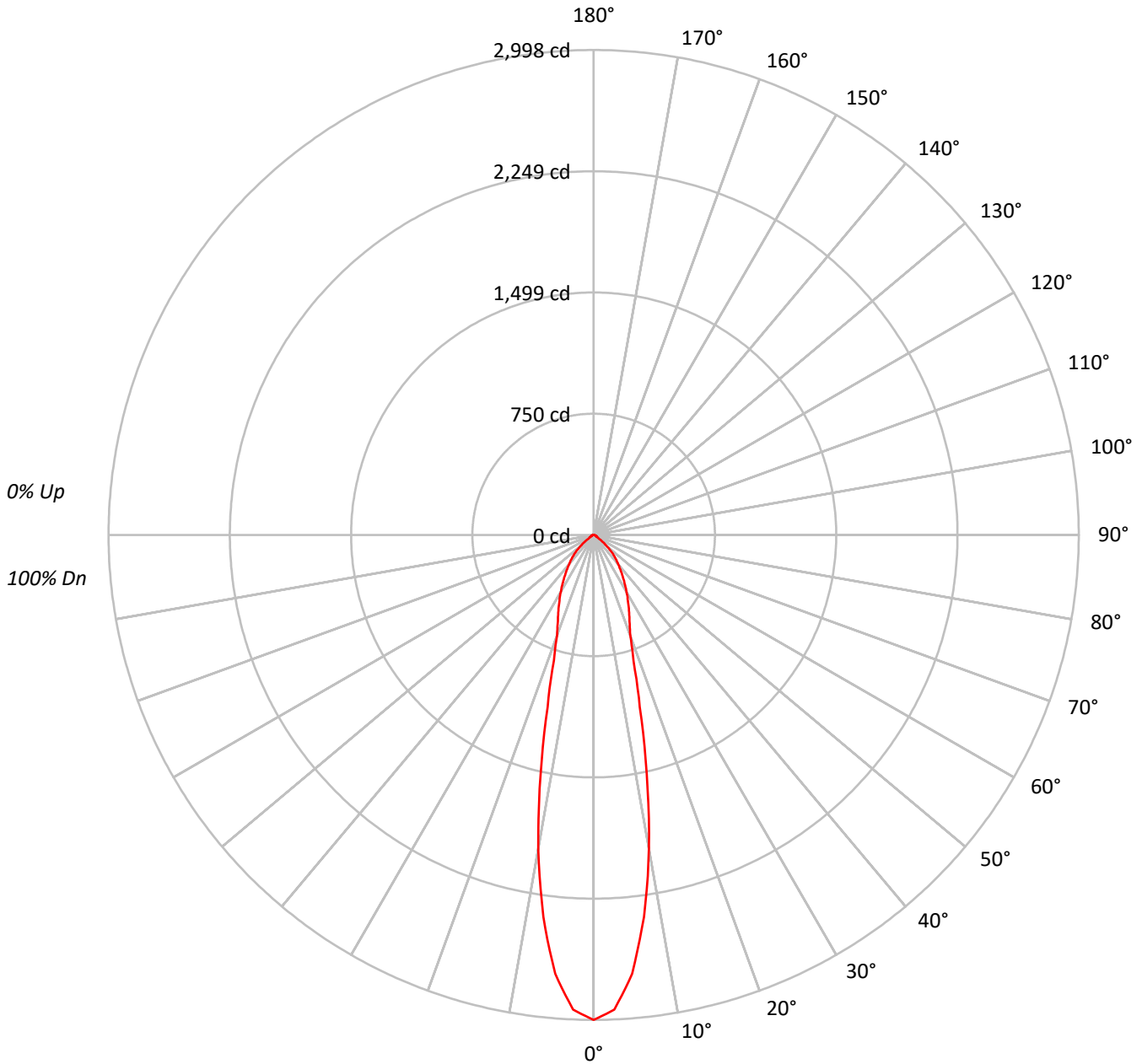
Lumens per Lamp: N/A
Luminaire Lumens: 1191.8 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 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	100	100
1	113	110	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93	93	93	93
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86	86	86	86
3	102	95	90	86	100	94	89	86	91	87	84	89	86	83	87	84	82	80	80	80	80
4	97	89	84	79	95	88	83	79	86	81	78	84	80	77	82	79	76	75	75	75	75
5	92	84	78	74	90	83	77	73	81	76	73	79	75	72	78	74	71	70	70	70	70
6	88	79	73	69	86	78	72	68	77	72	68	75	71	67	74	70	67	66	66	66	66
7	84	75	69	64	82	74	68	64	73	68	64	71	67	64	70	66	63	62	62	62	62
8	80	71	65	61	79	70	64	61	69	64	60	68	63	60	67	63	60	58	58	58	58
9	77	67	61	58	76	67	61	57	66	61	57	65	60	57	64	60	57	56	56	56	56
10	73	64	58	55	72	64	58	55	63	58	54	62	58	54	61	57	54	53	53	53	53

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	236704
5°	215817
10°	157929
15°	89915
20°	55361
25°	44979
30°	37045
35°	30077
40°	24299
45°	19425
50°	12686
55°	5560
60°	3552
65°	3138
70°	2839
75°	2745
80°	3046
85°	3080

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 19425 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.4	19.8
10°-20°	316.7	26.6
20°-30°	237.8	20.0
30°-40°	196.1	16.5
40°-50°	130.7	11.0
50°-60°	44.3	3.7
60°-70°	17.1	1.4
70°-80°	9.6	0.8
80°-90°	4.0	0.3
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°	789.9	66.3
0°-40°	986.0	82.7
0°-60°	1161.1	97.4
0°-90°	1191.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1191.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2998	
5°	2724	235
15°	1100	317
25°	516	238
35°	312	196
45°	174	131
55°	40	44
65°	17	17
75°	9	10
85°	3	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2998.5
2.5°	2936.8
5°	2723.5
7.5°	2381.1
10°	1970.2
12.5°	1512.2
15°	1100.2
17.5°	816.1
20°	659.0
22.5°	577.0
25°	516.4
27.5°	458.0
30°	406.4
32.5°	357.0
35°	312.1
37.5°	271.7
40°	235.8
42.5°	203.2
45°	174.0
47.5°	135.8
50°	103.3
52.5°	70.7
55°	40.4
57.5°	26.9
60°	22.5
62.5°	20.2
65°	16.8
67.5°	14.6
70°	12.3
72.5°	10.1
75°	9.0
77.5°	7.9
80°	6.7
82.5°	5.6
85°	3.4
87.5°	2.2
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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