

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: P640942

Luminaire Tested: ML5612LSNFL2597FS1E - 592W - 900LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640942
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-4)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSNFL2597FS1E - 592W - 900LM - 3000K
Description: ML56 RR, 25D TIR OPTIC, 5" WHITE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

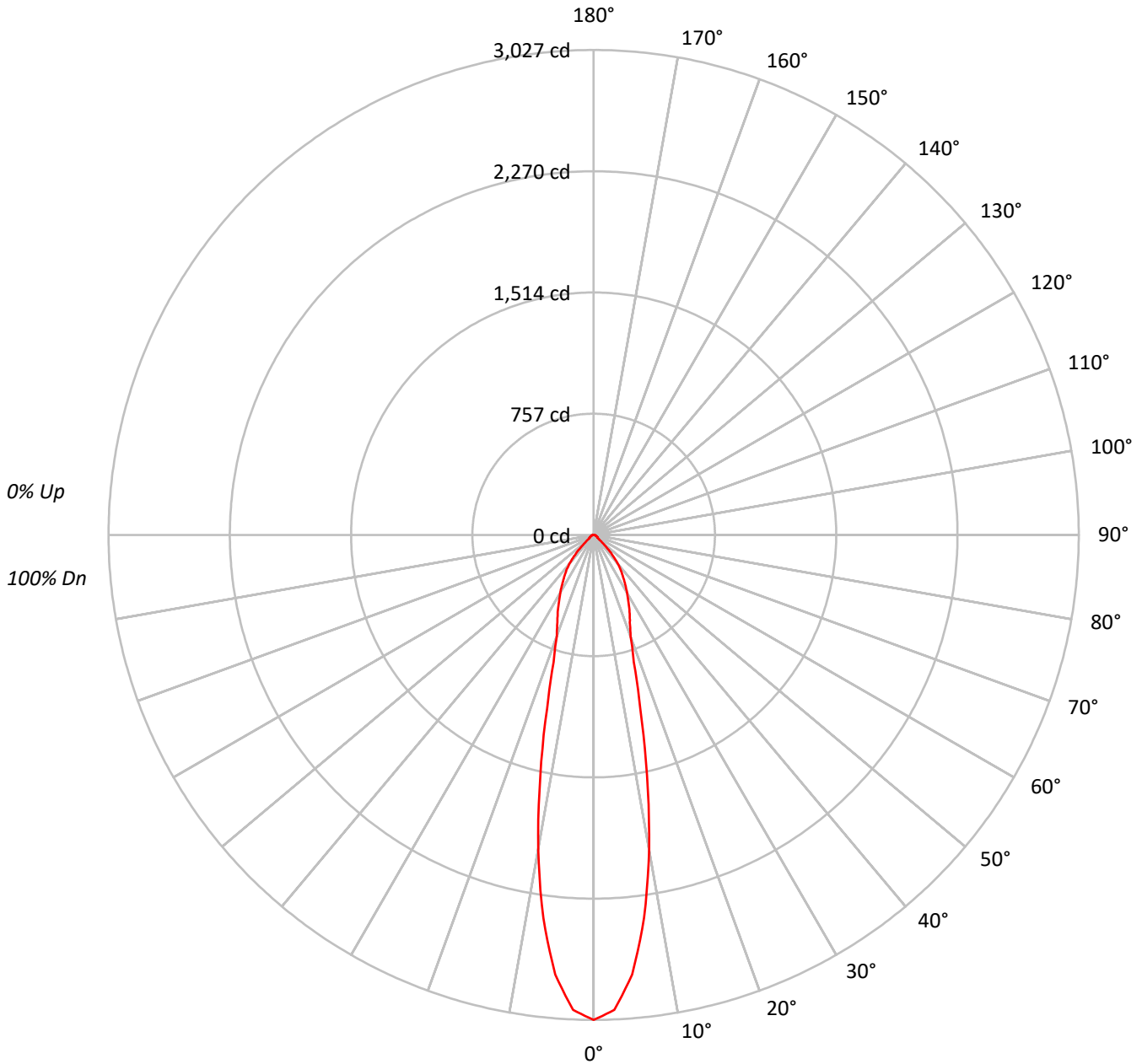
Lumens per Lamp: N/A
Luminaire Lumens: 1172.7 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93	93	93	93
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86	86	86	86
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	81	81	81	81
4	97	90	84	80	96	89	84	80	87	82	79	85	81	78	83	79	77	75	75	75	75
5	93	84	79	74	91	84	78	74	82	77	73	80	76	73	79	75	72	71	71	71	71
6	88	80	74	70	87	79	73	69	77	73	69	76	72	69	75	71	68	67	67	67	67
7	85	76	70	66	83	75	69	65	74	69	65	72	68	65	71	67	64	63	63	63	63
8	81	72	66	62	80	71	66	62	70	65	62	69	65	61	68	64	61	60	60	60	60
9	78	68	63	59	76	68	62	59	67	62	59	66	62	58	65	61	58	57	57	57	57
10	74	65	60	56	73	65	59	56	64	59	56	63	59	56	63	58	55	54	54	54	54

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	238986
5°	218210
10°	159748
15°	91704
20°	56461
25°	46129
30°	37847
35°	30819
40°	24279
45°	15038
50°	5649
55°	4322
60°	4073
65°	3773
70°	3624
75°	3752
80°	3591
85°	3080

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15038 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.1	20.3
10°-20°	322.1	27.5
20°-30°	243.4	20.8
30°-40°	200.5	17.1
40°-50°	102.6	8.7
50°-60°	29.3	2.5
60°-70°	20.1	1.7
70°-80°	12.9	1.1
80°-90°	3.8	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°	803.5	68.5
0°-40°	1004.0	85.6
0°-60°	1135.9	96.9
0°-90°	1172.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1172.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3027	
5°	2754	238
15°	1122	322
25°	530	243
35°	320	200
45°	135	103
55°	31	29
65°	20	20
75°	12	13
85°	3	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3027.4
2.5°	2966.9
5°	2753.7
7.5°	2410.3
10°	1992.9
12.5°	1535.0
15°	1122.1
17.5°	831.5
20°	672.1
22.5°	590.2
25°	529.6
27.5°	469.0
30°	415.2
32.5°	365.8
35°	319.8
37.5°	279.4
40°	235.6
42.5°	181.8
45°	134.7
47.5°	83.0
50°	46.0
52.5°	35.9
55°	31.4
57.5°	28.1
60°	25.8
62.5°	22.4
65°	20.2
67.5°	18.0
70°	15.7
72.5°	14.6
75°	12.3
77.5°	10.1
80°	7.9
82.5°	5.6
85°	3.4
87.5°	1.1
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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