

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: P640920

Luminaire Tested: ML5612LSNFL2597FS1E - 592SC - 1200LM - 5000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640920
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSNFL2597FS1E - 592SC - 1200LM - 5000K
Description: ML56 RR, 25D TIR OPTIC, 5" SPECULAR CLEAR TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

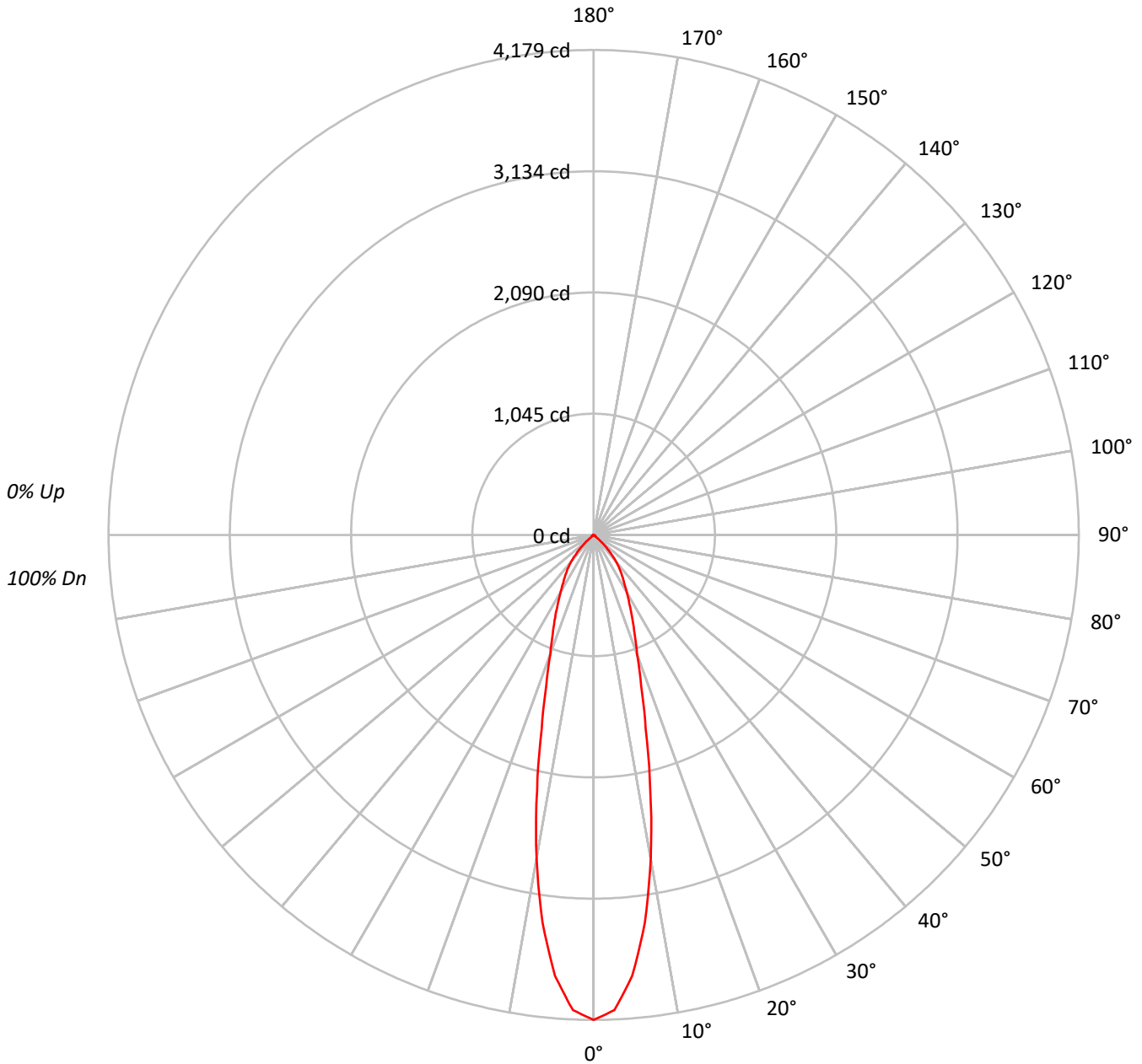
Lumens per Lamp: N/A
Luminaire Lumens: 1598.1 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Spacing Criteria (0/90/45): 0.44 / 0.44 / 0.48
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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	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	114	111	109	107	112	109	107	105	105	104	102	101	100	99	98	97	96	94	94	94	94
2	109	104	101	97	107	103	99	96	99	97	94	96	94	92	94	92	90	89	89	87	85
3	104	98	93	90	102	97	92	89	94	91	88	92	89	86	89	87	85	83	83	81	81
4	99	92	87	83	97	91	86	83	89	85	82	87	84	81	85	82	80	79	79	78	77
5	95	87	82	78	93	86	81	78	85	80	77	83	79	76	81	78	76	74	74	73	73
6	91	83	77	73	89	82	77	73	80	76	72	79	75	72	78	74	71	70	70	69	69
7	87	78	73	69	86	78	73	69	77	72	69	75	71	68	74	71	68	67	67	66	66
8	83	75	69	65	82	74	69	65	73	68	65	72	68	65	71	67	64	63	63	62	62
9	80	71	66	62	79	71	66	62	70	65	62	69	65	62	68	64	61	60	60	59	59
10	77	68	63	59	76	68	63	59	67	62	59	66	62	59	65	62	59	58	58	57	57

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	329918
5°	302239
10°	227074
15°	141361
20°	91652
25°	68462
30°	51784
35°	40986
40°	31286
45°	18119
50°	4802
55°	2064
60°	1421
65°	560
70°	346
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 18119 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	332.2	20.8
10°-20°	491.9	30.8
20°-30°	363.2	22.7
30°-40°	266.4	16.7
40°-50°	124.0	7.8
50°-60°	16.3	1.0
60°-70°	3.9	0.2
70°-80°	0.2	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°	1187.4	74.3
0°-40°	1453.8	91.0
0°-60°	1594.1	99.7
0°-90°	1598.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1598.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4179	
5°	3814	332
15°	1730	492
25°	786	363
35°	425	266
45°	162	124
55°	15	16
65°	3	4
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4179.3
2.5°	4098.2
5°	3814.1
7.5°	3370.8
10°	2832.8
12.5°	2254.2
15°	1729.7
17.5°	1355.5
20°	1091.0
22.5°	919.7
25°	786.0
27.5°	664.2
30°	568.1
32.5°	488.4
35°	425.3
37.5°	366.7
40°	303.6
42.5°	229.9
45°	162.3
47.5°	91.7
50°	39.1
52.5°	22.5
55°	15.0
57.5°	12.0
60°	9.0
62.5°	6.0
65°	3.0
67.5°	1.5
70°	1.5
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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