

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: P641082

Luminaire Tested: ML5612LSNFL2597FS1E - 692H - 1200LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641082
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSNFL2597FS1E - 692H - 1200LM - 3000K
Description: ML56 RR, 25D TIR OPTIC, 6" HAZE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

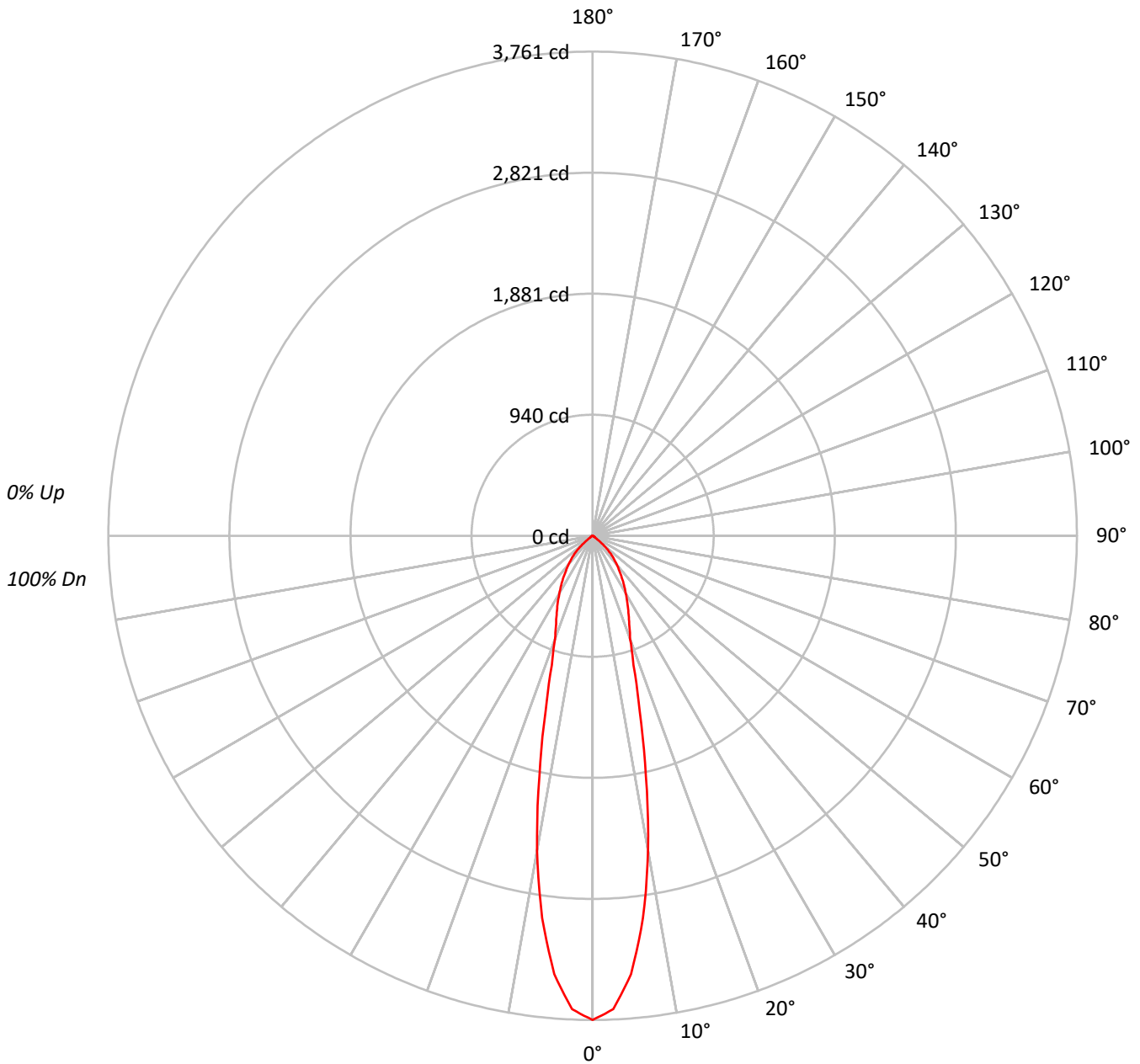
Lumens per Lamp: N/A
Luminaire Lumens: 1441.4 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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			
1	114	111	109	106	111	109	107	105	105	103	102	101	100	99	98	97	96	94			
2	108	104	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88			
3	103	97	92	88	101	96	91	88	93	89	86	91	87	85	88	86	84	82			
4	98	91	86	82	96	90	85	81	88	83	80	86	82	79	84	81	78	77			
5	94	86	80	76	92	85	79	76	83	78	75	81	77	74	80	76	74	72			
6	89	81	75	71	88	80	75	71	79	74	70	77	73	70	76	72	69	68			
7	85	77	71	67	84	76	70	67	75	70	66	73	69	66	72	69	66	64			
8	82	73	67	63	81	72	67	63	71	66	63	70	66	62	69	65	62	61			
9	78	69	64	60	77	69	63	60	68	63	60	67	63	59	66	62	59	58			
10	75	66	61	57	74	66	60	57	65	60	57	64	60	57	63	59	56	55			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	206190
5°	188058
10°	138196
15°	79893
20°	49623
25°	39861
30°	32600
35°	26374
40°	20810
45°	15699
50°	8111
55°	2342
60°	1491
65°	882
70°	433
75°	297
80°	442
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15699 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.8	20.5
10°-20°	404.0	28.0
20°-30°	304.2	21.1
30°-40°	247.0	17.1
40°-50°	150.8	10.5
50°-60°	31.1	2.2
60°-70°	6.7	0.5
70°-80°	1.6	0.1
80°-90°	0.2	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°	1004.0	69.7
0°-40°	1251.0	86.8
0°-60°	1432.9	99.4
0°-90°	1441.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1441.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3761	
5°	3417	296
15°	1408	404
25°	659	304
35°	394	247
45°	202	151
55°	24	31
65°	7	7
75°	1	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3761.2
2.5°	3681.0
5°	3417.4
7.5°	2996.2
10°	2482.6
12.5°	1911.9
15°	1407.7
17.5°	1054.4
20°	850.6
22.5°	740.6
25°	659.0
27.5°	584.3
30°	515.0
32.5°	453.8
35°	394.1
37.5°	339.7
40°	290.8
42.5°	247.3
45°	202.5
47.5°	146.8
50°	95.1
52.5°	44.8
55°	24.5
57.5°	17.7
60°	13.6
62.5°	9.5
65°	6.8
67.5°	2.7
70°	2.7
72.5°	1.4
75°	1.4
77.5°	1.4
80°	1.4
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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