

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: P641114

Luminaire Tested: ML5612LSNFL2597FS1E - 692W - 1200LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641114
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSNFL2597FS1E - 692W - 1200LM - 4000K
Description: ML56 RR, 25D TIR OPTIC, 6" WHITE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

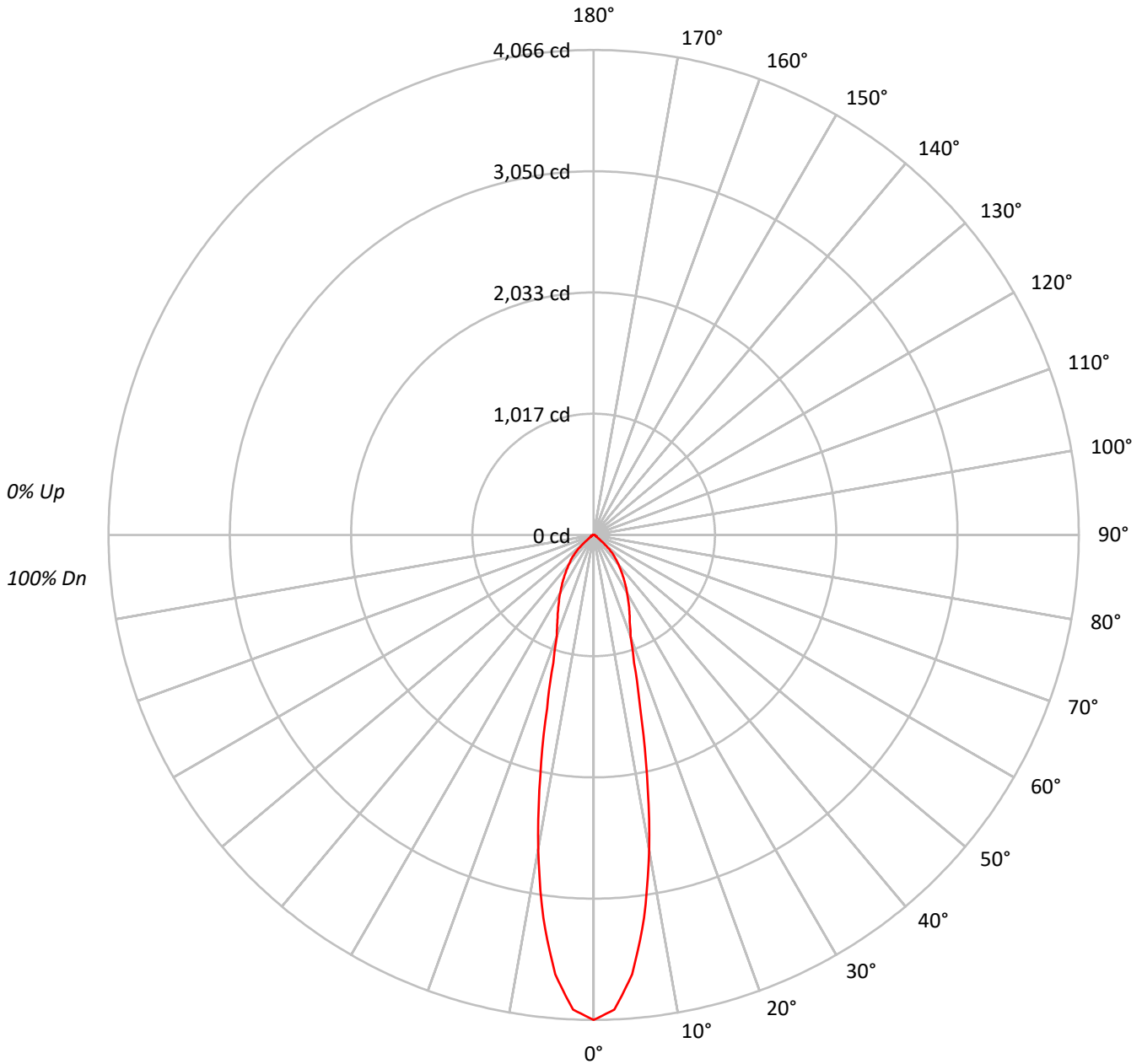
Lumens per Lamp: N/A
Luminaire Lumens: 1606.5 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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	113	111	108	106	111	108	106	104	104	102	101	101	99	98	97	96	95	93			
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	87			
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	81			
4	97	90	84	80	95	89	83	79	86	82	78	84	81	78	83	79	77	75			
5	93	84	78	74	91	83	78	74	82	77	73	80	76	73	78	75	72	70			
6	88	79	74	69	87	79	73	69	77	72	69	76	71	68	74	71	68	66			
7	84	75	69	65	83	74	69	65	73	68	65	72	68	64	71	67	64	62			
8	80	71	65	61	79	71	65	61	70	65	61	69	64	61	68	64	61	59			
9	77	68	62	58	76	67	62	58	66	61	58	65	61	58	65	61	57	56			
10	74	65	59	55	73	64	59	55	63	58	55	63	58	55	62	58	55	54			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	222926
5°	203455
10°	149240
15°	85534
20°	52720
25°	42855
30°	35442
35°	28931
40°	23201
45°	18041
50°	9987
55°	3871
60°	3125
65°	2724
70°	2404
75°	2542
80°	2368
85°	1887

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 18041 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	319.8	19.9
10°-20°	433.4	27.0
20°-30°	326.8	20.3
30°-40°	270.9	16.9
40°-50°	172.8	10.8
50°-60°	45.9	2.9
60°-70°	21.3	1.3
70°-80°	12.1	0.8
80°-90°	3.5	0.2
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°	1080.0	67.2
0°-40°	1350.9	84.1
0°-60°	1569.7	97.7
0°-90°	1606.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1606.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4066	
5°	3697	320
15°	1507	433
25°	708	327
35°	432	271
45°	233	173
55°	40	46
65°	21	21
75°	12	12
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4066.5
2.5°	3982.4
5°	3697.2
7.5°	3237.9
10°	2681.0
12.5°	2062.5
15°	1507.1
17.5°	1124.3
20°	903.7
22.5°	792.6
25°	708.5
27.5°	630.5
30°	559.9
32.5°	493.9
35°	432.3
37.5°	375.3
40°	324.2
42.5°	277.7
45°	232.7
47.5°	172.6
50°	117.1
52.5°	61.5
55°	40.5
57.5°	33.0
60°	28.5
62.5°	25.5
65°	21.0
67.5°	18.0
70°	15.0
72.5°	13.5
75°	12.0
77.5°	9.0
80°	7.5
82.5°	4.5
85°	3.0
87.5°	1.5
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)