

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: P640773

Luminaire Tested: ML5612LSFL4097FS1E - 692W - 600LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640773
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-39)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSFL4097FS1E - 692W - 600LM - 3500K
Description: ML56 RR, 40D TIR OPTIC, 6" WHITE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1028.8 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Spacing Criteria (0/90/45): 0.64 / 0.64 / 0.69
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

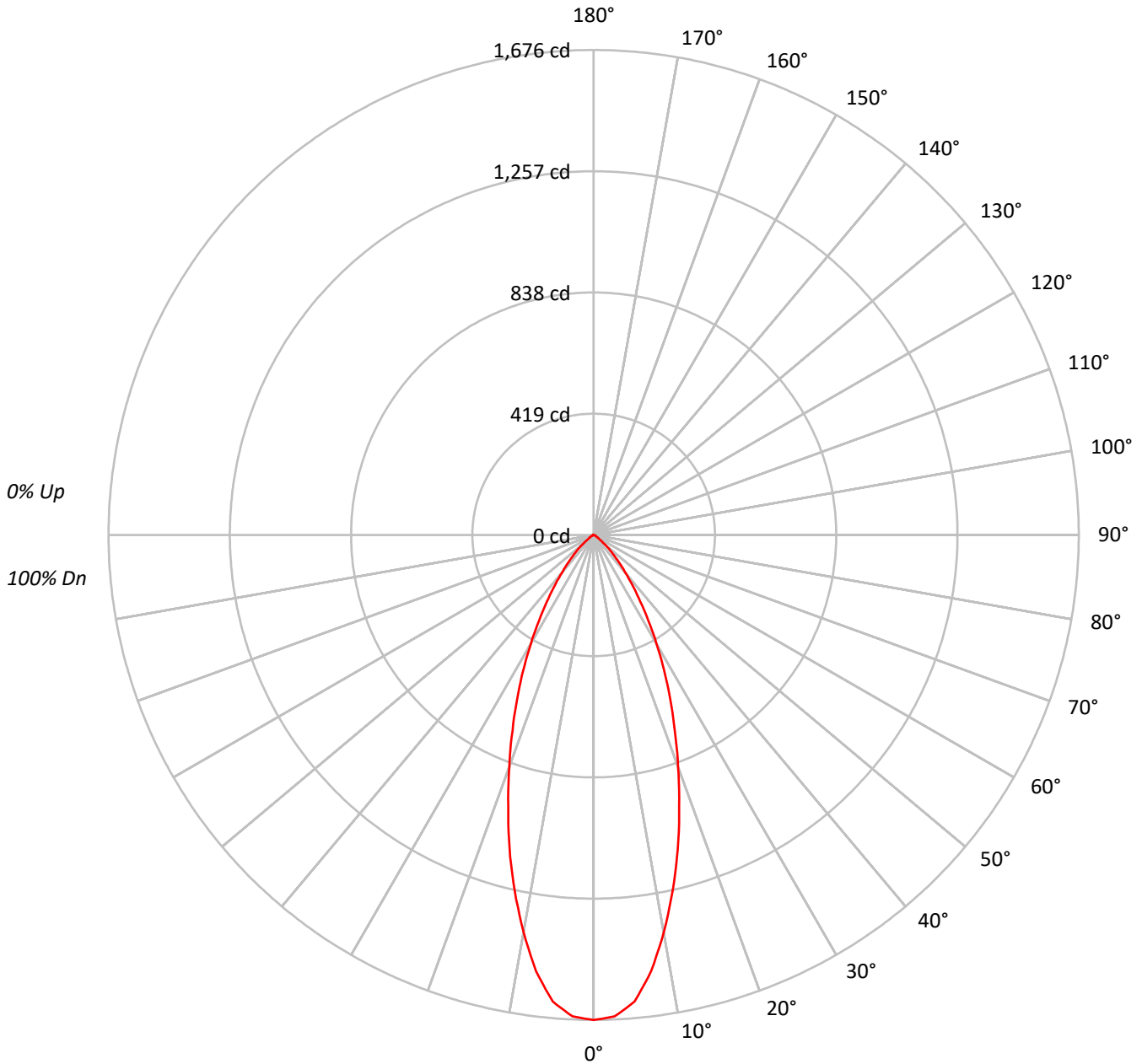
Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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																
1	114	111	108	106	111	109	106	104	105	103	101	101	100	98	98	96	95	94			94																
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87			87																
3	103	96	92	88	101	95	91	87	92	89	86	90	87	84	88	85	83	81			81																
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	78	76			76																
5	93	85	79	75	91	84	79	75	82	78	74	80	76	73	79	75	73	71			71																
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67			67																
7	84	75	70	65	83	75	69	65	73	69	65	72	68	65	71	67	64	63			63																
8	81	71	66	62	79	71	65	61	70	65	61	69	64	61	68	64	61	59			59																
9	77	68	62	58	76	67	62	58	66	61	58	65	61	58	65	60	57	56			56																
10	74	64	59	55	73	64	58	55	63	58	55	62	58	55	62	57	54	53			53																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	91901
5°	89093
10°	77626
15°	63752
20°	49763
25°	37859
30°	27454
35°	18812
40°	12209
45°	7590
50°	3983
55°	1806
60°	1184
65°	700
70°	433
75°	381
80°	568
85°	566

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7590 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.1	14.3
10°-20°	310.2	30.2
20°-30°	286.9	27.9
30°-40°	178.4	17.3
40°-50°	78.3	7.6
50°-60°	19.3	1.9
60°-70°	5.6	0.5
70°-80°	2.3	0.2
80°-90°	0.7	0.1
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°	744.2	72.3
0°-40°	922.6	89.7
0°-60°	1020.2	99.2
0°-90°	1028.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1028.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1676	
5°	1619	147
15°	1123	310
25°	626	287
35°	281	178
45°	98	78
55°	19	19
65°	5	6
75°	2	2
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1676.4
2.5°	1665.7
5°	1619.0
7.5°	1521.1
10°	1394.5
12.5°	1259.8
15°	1123.3
17.5°	982.3
20°	853.0
22.5°	732.7
25°	625.9
27.5°	526.2
30°	433.7
32.5°	352.0
35°	281.1
37.5°	220.9
40°	170.6
42.5°	132.0
45°	97.9
47.5°	72.7
50°	46.7
52.5°	25.1
55°	18.9
57.5°	14.4
60°	10.8
62.5°	8.1
65°	5.4
67.5°	2.7
70°	2.7
72.5°	2.7
75°	1.8
77.5°	1.8
80°	1.8
82.5°	0.9
85°	0.9
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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