

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: P640936

Luminaire Tested: ML5612LSNFL2597FS1E - 592W - 600LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640936
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 - 600LM - 2700K
Description: ML56 RR, 25D TIR OPTIC, 5" WHITE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 888.8 lumens
Efficiency: N/A
Efficacy: 86.3 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

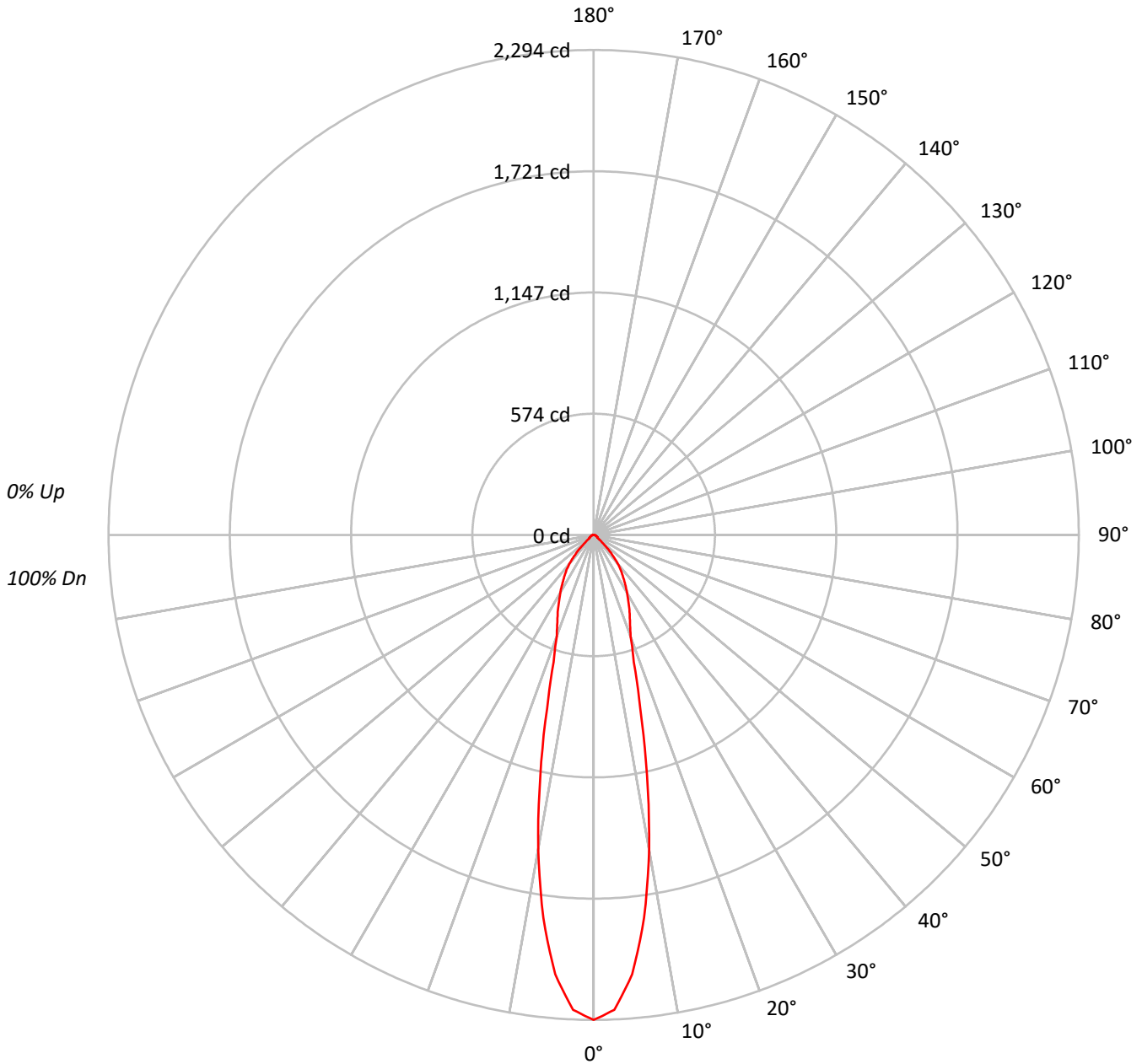
Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	181106
5°	165355
10°	121056
15°	69491
20°	42785
25°	34963
30°	28677
35°	23350
40°	18405
45°	11387
50°	4286
55°	3276
60°	3094
65°	2858
70°	2747
75°	2867
80°	2728
85°	2355

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11387 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.4	20.3
10°-20°	244.1	27.5
20°-30°	184.4	20.8
30°-40°	151.9	17.1
40°-50°	77.7	8.7
50°-60°	22.2	2.5
60°-70°	15.3	1.7
70°-80°	9.8	1.1
80°-90°	2.9	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°	608.9	68.5
0°-40°	760.8	85.6
0°-60°	860.8	96.9
0°-90°	888.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	888.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2294	
5°	2087	180
15°	850	244
25°	401	184
35°	242	152
45°	102	78
55°	24	22
65°	15	15
75°	9	10
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2294.2
2.5°	2248.3
5°	2086.7
7.5°	1826.5
10°	1510.2
12.5°	1163.2
15°	850.3
17.5°	630.1
20°	509.3
22.5°	447.3
25°	401.4
27.5°	355.4
30°	314.6
32.5°	277.2
35°	242.3
37.5°	211.7
40°	178.6
42.5°	137.8
45°	102.0
47.5°	62.9
50°	34.9
52.5°	27.2
55°	23.8
57.5°	21.3
60°	19.6
62.5°	17.0
65°	15.3
67.5°	13.6
70°	11.9
72.5°	11.1
75°	9.4
77.5°	7.7
80°	6.0
82.5°	4.3
85°	2.6
87.5°	0.9
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)