

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: P641073

Luminaire Tested: ML5612LSNFL2597FS1E - 691WB - 600LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641073
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-13)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSNFL2597FS1E - 691WB - 600LM - 3500K
Description: ML56 RR, 25D TIR OPTIC, 6" DEADFRONT TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 974.9 lumens
Efficiency: N/A
Efficacy: 94.7 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

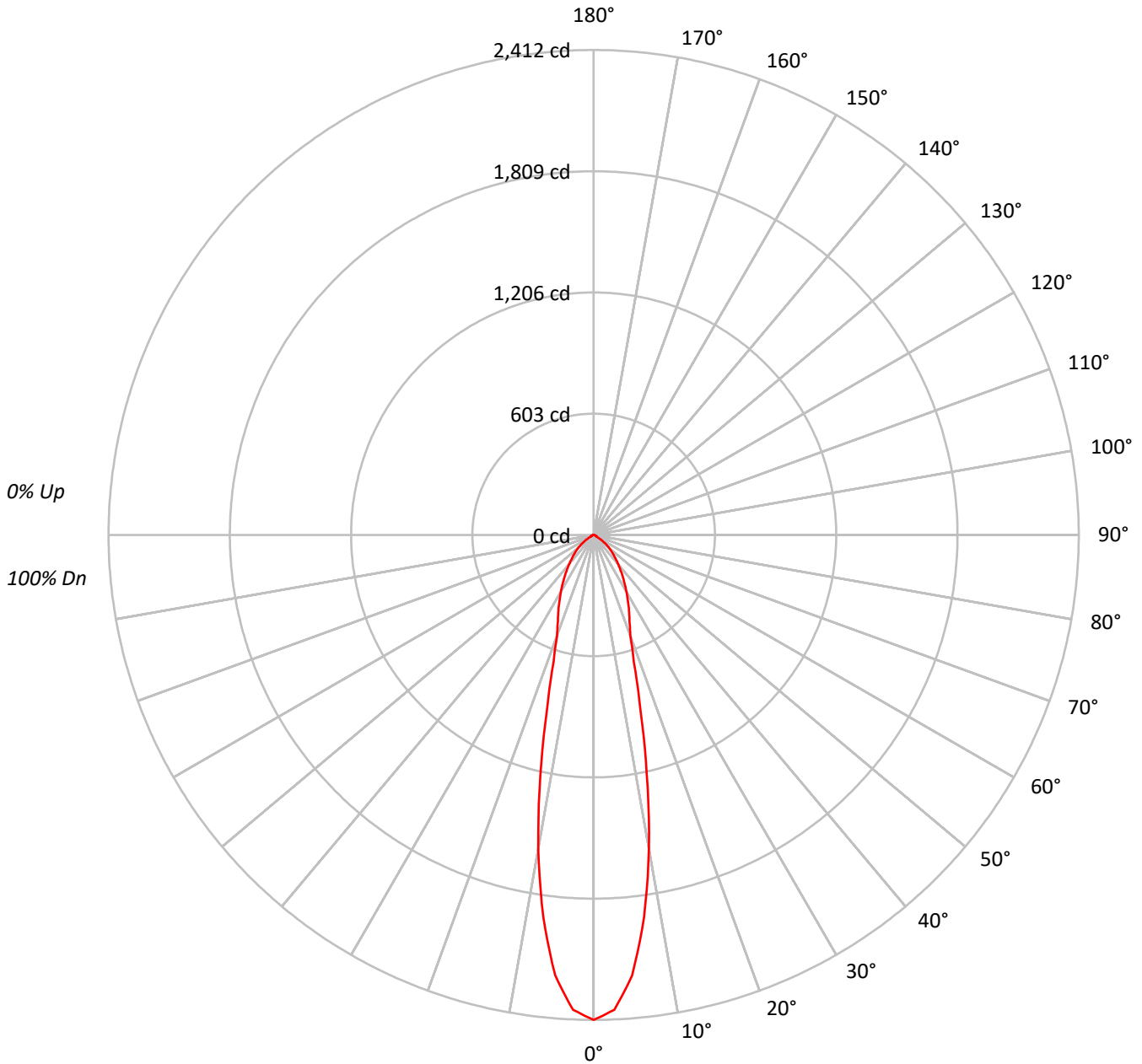
Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	113	110	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93			93																
2	107	102	98	95	105	101	97	94	97	94	91	94	92	90	92	89	88	86			86																
3	102	95	90	86	100	94	89	85	91	87	84	89	85	83	86	84	81	80			80																
4	97	89	83	79	95	88	82	78	86	81	77	84	80	77	82	78	76	74			74																
5	92	83	77	73	90	82	77	73	81	76	72	79	75	71	77	74	71	69			69																
6	87	78	72	68	86	78	72	68	76	71	67	75	70	67	73	69	66	65			65																
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61			61																
8	80	70	64	60	78	70	64	60	68	63	60	67	63	59	66	62	59	58			58																
9	76	67	61	57	75	66	61	57	65	60	57	64	60	56	63	59	56	55			55																
10	73	63	58	54	72	63	58	54	62	57	54	61	57	54	61	57	53	52			52																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	132243
5°	121032
10°	88175
15°	50687
20°	31030
25°	25108
30°	20585
35°	16778
40°	13504
45°	10800
50°	8503
55°	5496
60°	2171
65°	1634
70°	1298
75°	1144
80°	1137
85°	1132

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10800 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.7	19.5
10°-20°	256.1	26.3
20°-30°	191.3	19.6
30°-40°	157.2	16.1
40°-50°	108.4	11.1
50°-60°	52.0	5.3
60°-70°	12.6	1.3
70°-80°	5.8	0.6
80°-90°	2.0	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°	637.0	65.3
0°-40°	794.2	81.5
0°-60°	954.6	97.9
0°-90°	974.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	974.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2412	
5°	2199	190
15°	893	256
25°	415	191
35°	251	157
45°	139	108
55°	58	52
65°	13	13
75°	5	6
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2412.3
2.5°	2363.8
5°	2199.4
7.5°	1918.2
10°	1584.0
12.5°	1221.0
15°	893.1
17.5°	661.3
20°	531.9
22.5°	464.5
25°	415.1
27.5°	368.4
30°	325.2
32.5°	285.7
35°	250.7
37.5°	218.3
40°	188.7
42.5°	162.6
45°	139.3
47.5°	118.6
50°	99.7
52.5°	80.9
55°	57.5
57.5°	36.8
60°	19.8
62.5°	14.4
65°	12.6
67.5°	9.9
70°	8.1
72.5°	6.3
75°	5.4
77.5°	4.5
80°	3.6
82.5°	2.7
85°	1.8
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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