

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: P640892

Luminaire Tested: ML5612LSNFL2597FS1E - 591WB - 600LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640892
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSNFL2597FS1E - 591WB - 600LM - 3000K
Description: ML56 RR, 25D TIR OPTIC, 5" DEADFRONT TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

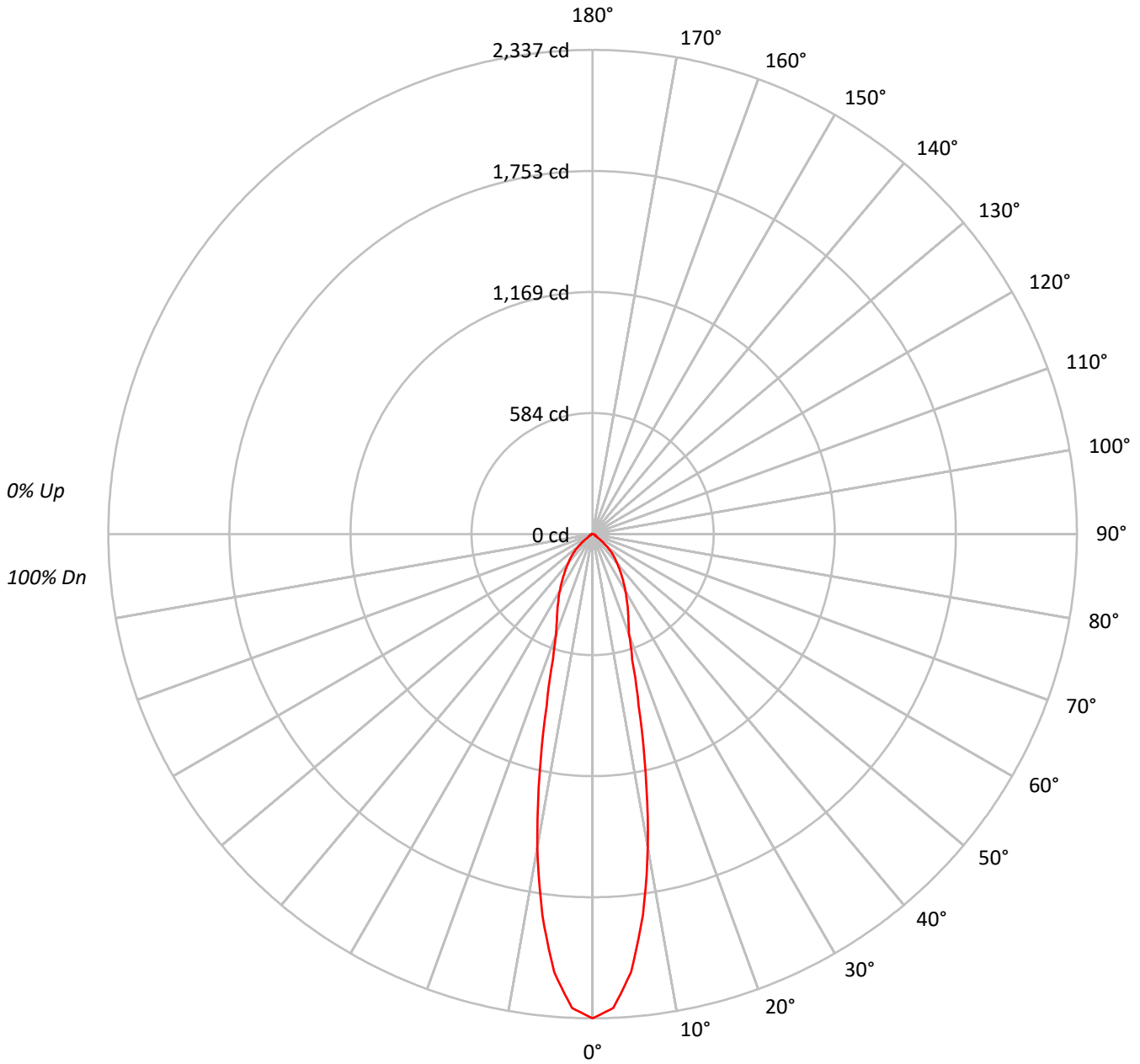
Lumens per Lamp: N/A
Luminaire Lumens: 929.0 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (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	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	110	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93																											
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86																											
3	102	95	90	86	100	94	89	86	91	87	84	89	86	83	87	84	82	80																											
4	97	89	84	79	95	88	83	79	86	81	78	84	80	77	82	79	76	75																											
5	92	84	78	74	90	83	77	73	81	76	73	79	75	72	78	74	71	70																											
6	88	79	73	69	86	78	72	68	77	72	68	75	71	67	74	70	67	66																											
7	84	75	69	64	82	74	68	64	73	68	64	71	67	64	70	66	63	62																											
8	80	71	65	61	79	70	64	61	69	64	60	68	63	60	67	63	60	58																											
9	77	67	61	58	76	67	61	57	66	61	57	65	60	57	64	60	57	56																											
10	73	64	58	55	72	64	58	55	63	58	54	62	58	54	61	57	54	53																											

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	184501
5°	168216
10°	123100
15°	70080
20°	43146
25°	35058
30°	28877
35°	23447
40°	18941
45°	15138
50°	9886
55°	4335
60°	2763
65°	2447
70°	2216
75°	2135
80°	2409
85°	2355

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15138 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.5	19.7
10°-20°	246.9	26.6
20°-30°	185.4	20.0
30°-40°	152.9	16.5
40°-50°	101.9	11.0
50°-60°	34.6	3.7
60°-70°	13.3	1.4
70°-80°	7.5	0.8
80°-90°	3.1	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°	615.7	66.3
0°-40°	768.6	82.7
0°-60°	905.0	97.4
0°-90°	929.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	929.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2337	
5°	2123	183
15°	858	247
25°	402	185
35°	243	153
45°	136	102
55°	32	35
65°	13	13
75°	7	8
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2337.2
2.5°	2289.1
5°	2122.8
7.5°	1855.9
10°	1535.7
12.5°	1178.7
15°	857.5
17.5°	636.1
20°	513.6
22.5°	449.8
25°	402.5
27.5°	357.0
30°	316.8
32.5°	278.3
35°	243.3
37.5°	211.8
40°	183.8
42.5°	158.4
45°	135.6
47.5°	105.9
50°	80.5
52.5°	55.1
55°	31.5
57.5°	21.0
60°	17.5
62.5°	15.8
65°	13.1
67.5°	11.4
70°	9.6
72.5°	7.9
75°	7.0
77.5°	6.1
80°	5.3
82.5°	4.4
85°	2.6
87.5°	1.8
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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