

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: P640891

Luminaire Tested: ML5612LSNFL2597FS1E - 591WB - 600LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640891
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 - 2700K
Description: ML56 RR, 25D TIR OPTIC, 5" DEADFRONT TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

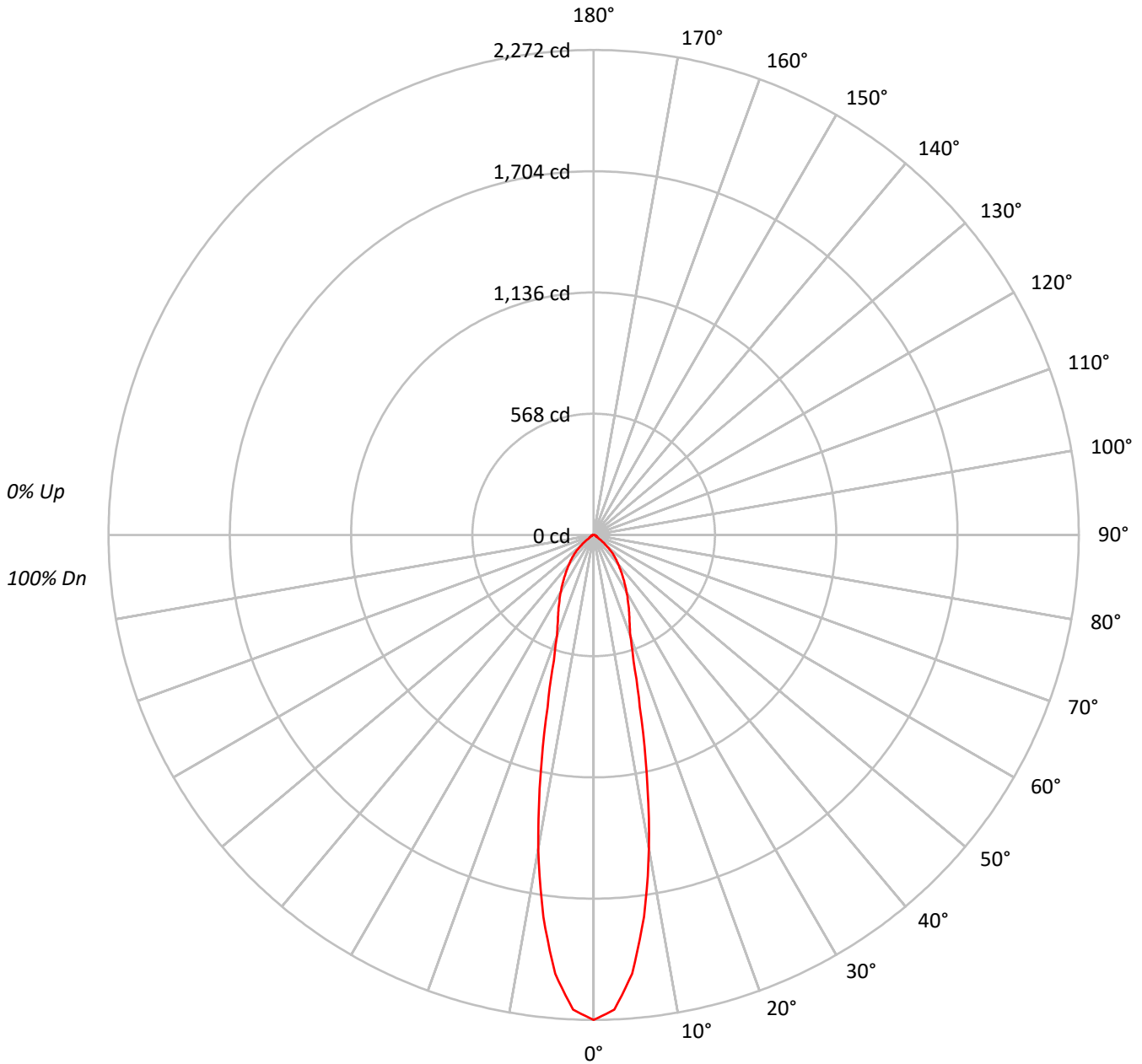
Lumens per Lamp: N/A
Luminaire Lumens: 903.2 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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									
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																			
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°	179377
5°	163541
10°	119677
15°	68135
20°	41953
25°	34083
30°	28075
35°	22791
40°	18415
45°	14725
50°	9616
55°	4211
60°	2684
65°	2391
70°	2170
75°	2074
80°	2318
85°	2355

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14725 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.4	19.7
10°-20°	240.0	26.6
20°-30°	180.2	20.0
30°-40°	148.6	16.5
40°-50°	99.1	11.0
50°-60°	33.6	3.7
60°-70°	13.0	1.4
70°-80°	7.3	0.8
80°-90°	3.0	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°	598.6	66.3
0°-40°	747.2	82.7
0°-60°	879.9	97.4
0°-90°	903.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	903.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2272	
5°	2064	178
15°	834	240
25°	391	180
35°	236	149
45°	132	99
55°	31	34
65°	13	13
75°	7	7
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2272.3
2.5°	2225.5
5°	2063.8
7.5°	1804.4
10°	1493.0
12.5°	1145.9
15°	833.7
17.5°	618.5
20°	499.4
22.5°	437.3
25°	391.3
27.5°	347.1
30°	308.0
32.5°	270.5
35°	236.5
37.5°	205.9
40°	178.7
42.5°	154.0
45°	131.9
47.5°	102.9
50°	78.3
52.5°	53.6
55°	30.6
57.5°	20.4
60°	17.0
62.5°	15.3
65°	12.8
67.5°	11.1
70°	9.4
72.5°	7.7
75°	6.8
77.5°	6.0
80°	5.1
82.5°	4.3
85°	2.6
87.5°	1.7
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)