

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: P640895

Luminaire Tested: ML5612LSNFL2597FS1E - 591WB - 600LM - 5000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640895
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 - 5000K
Description: ML56 RR, 25D TIR OPTIC, 5" DEADFRONT TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

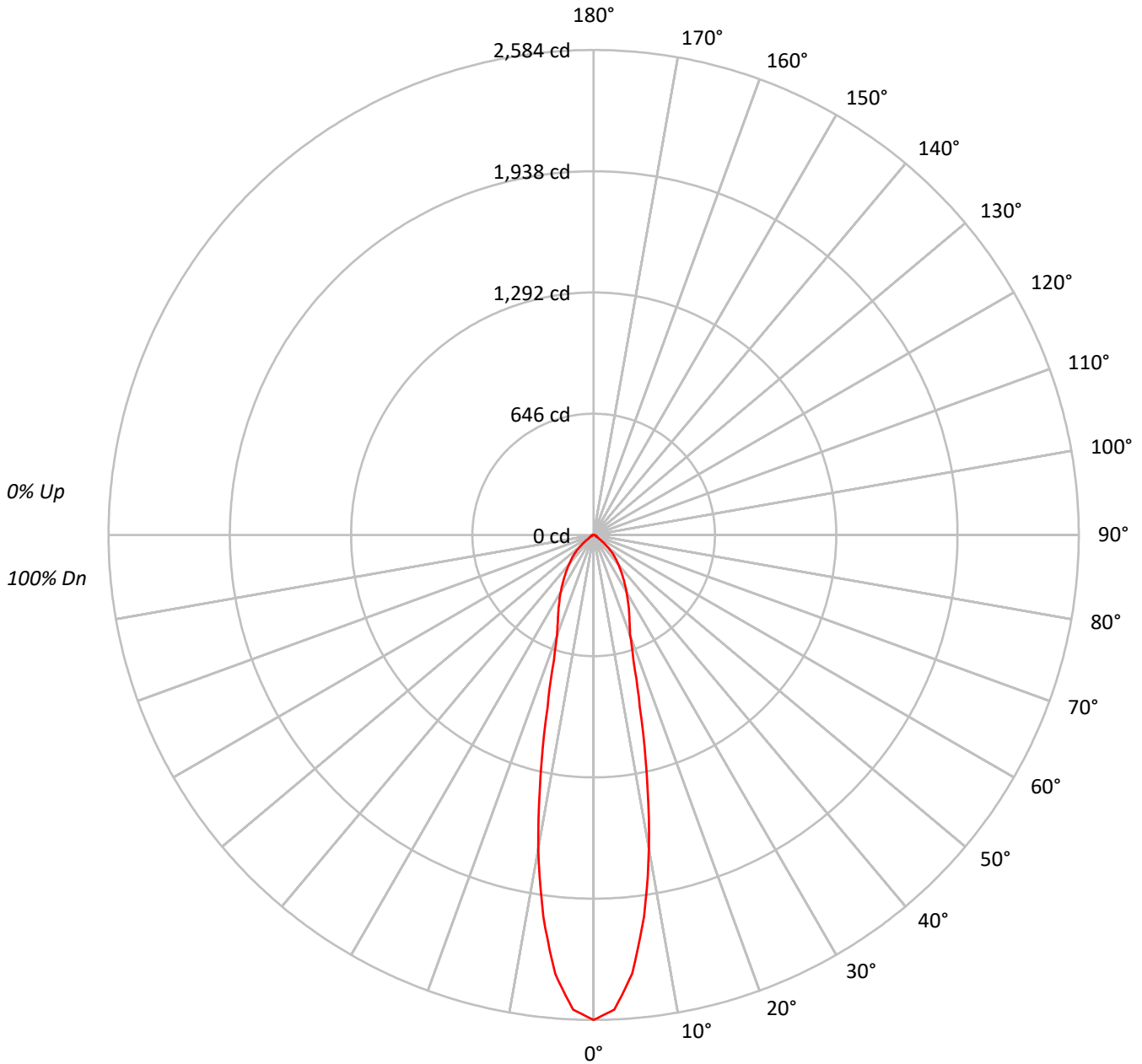
Lumens per Lamp: N/A
Luminaire Lumens: 1027.0 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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			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	92	94	92	90	92	90	88	86			86																
3	102	95	90	86	100	94	89	86	91	87	84	89	86	83	87	84	82	80			80																
4	97	89	84	79	95	88	83	79	86	81	78	84	80	77	82	79	76	75			75																
5	92	84	78	74	90	83	77	73	81	76	73	79	75	72	78	74	71	70			70																
6	88	79	73	69	86	78	72	68	77	72	68	75	71	67	74	70	67	66			66																
7	84	75	69	64	82	74	68	64	73	68	64	71	67	64	70	66	63	62			62																
8	80	71	65	61	79	70	64	61	69	64	60	68	63	60	67	63	60	58			58																
9	77	67	61	58	76	67	61	57	66	61	57	65	60	57	64	60	57	56			56																
10	73	64	58	55	72	64	58	55	63	58	54	62	58	54	61	57	54	53			53																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	203991
5°	185990
10°	136101
15°	77484
20°	47708
25°	38760
30°	31922
35°	25923
40°	20940
45°	16746
50°	10930
55°	4789
60°	3047
65°	2708
70°	2447
75°	2349
80°	2637
85°	2627

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16746 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.9	19.8
10°-20°	273.0	26.6
20°-30°	205.0	20.0
30°-40°	169.0	16.5
40°-50°	112.7	11.0
50°-60°	38.2	3.7
60°-70°	14.7	1.4
70°-80°	8.3	0.8
80°-90°	3.4	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°	680.8	66.3
0°-40°	849.7	82.7
0°-60°	1000.7	97.4
0°-90°	1027.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1027.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2584	
5°	2347	203
15°	948	273
25°	445	205
35°	269	169
45°	150	113
55°	35	38
65°	14	15
75°	8	8
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2584.1
2.5°	2530.9
5°	2347.1
7.5°	2052.0
10°	1697.9
12.5°	1303.2
15°	948.1
17.5°	703.4
20°	567.9
22.5°	497.3
25°	445.0
27.5°	394.7
30°	350.2
32.5°	307.7
35°	269.0
37.5°	234.1
40°	203.2
42.5°	175.1
45°	150.0
47.5°	117.1
50°	89.0
52.5°	61.0
55°	34.8
57.5°	23.2
60°	19.3
62.5°	17.4
65°	14.5
67.5°	12.6
70°	10.6
72.5°	8.7
75°	7.7
77.5°	6.8
80°	5.8
82.5°	4.8
85°	2.9
87.5°	1.9
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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