

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: P642110

Luminaire Tested: ML5612LSWFL5597FS1E - 691WB - 600LM - 5000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642110
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-59)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSWFL5597FS1E - 691WB - 600LM - 5000K
Description: ML56 RR, 55D TIR OPTIC, 6" DEADFRONT TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

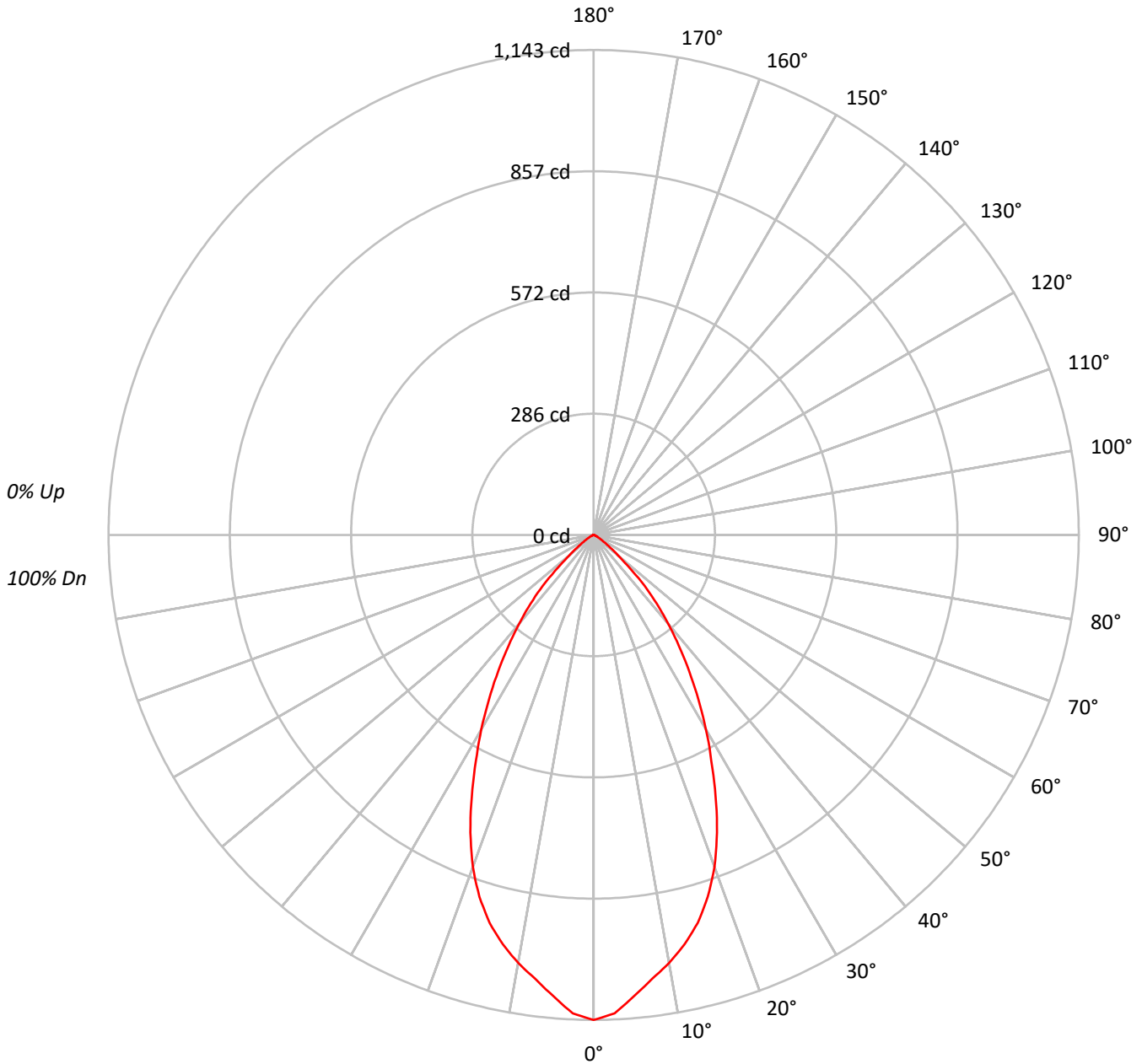
Lumens per Lamp: N/A
Luminaire Lumens: 1093.8 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93																			
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85																			
3	101	94	89	84	99	93	88	84	90	86	82	88	84	81	85	82	80	78																			
4	95	87	81	77	93	86	81	76	84	79	75	82	78	74	80	76	74	72																			
5	90	81	75	70	88	80	74	70	78	73	69	77	72	69	75	71	68	66																			
6	85	76	69	65	84	75	69	64	73	68	64	72	67	63	70	66	63	61																			
7	81	71	64	60	79	70	64	59	69	63	59	67	62	59	66	62	58	57																			
8	76	66	60	55	75	66	59	55	64	59	55	63	58	55	62	58	54	53																			
9	72	62	56	52	71	62	56	51	61	55	51	60	55	51	59	54	51	49																			
10	69	58	52	48	68	58	52	48	57	52	48	56	51	48	56	51	48	46																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	62670
5°	60037
10°	57013
15°	53740
20°	48578
25°	41125
30°	33486
35°	26214
40°	19515
45°	13125
50°	6354
55°	3144
60°	1590
65°	999
70°	465
75°	402
80°	316
85°	629

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13125 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.1	9.3
10°-20°	263.6	24.1
20°-30°	310.6	28.4
30°-40°	245.1	22.4
40°-50°	128.7	11.8
50°-60°	32.9	3.0
60°-70°	7.8	0.7
70°-80°	2.0	0.2
80°-90°	1.0	0.1
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°	676.3	61.8
0°-40°	921.4	84.2
0°-60°	1083.0	99.0
0°-90°	1093.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1093.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1143	
5°	1091	102
15°	947	264
25°	680	311
35°	392	245
45°	169	129
55°	33	33
65°	8	8
75°	2	2
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1143.2
2.5°	1128.7
5°	1091.0
7.5°	1055.2
10°	1024.2
12.5°	988.5
15°	946.9
17.5°	894.6
20°	832.7
22.5°	759.2
25°	679.9
27.5°	600.6
30°	529.0
32.5°	458.4
35°	391.7
37.5°	329.8
40°	272.7
42.5°	219.6
45°	169.3
47.5°	113.2
50°	74.5
52.5°	50.3
55°	32.9
57.5°	21.3
60°	14.5
62.5°	10.6
65°	7.7
67.5°	4.8
70°	2.9
72.5°	1.9
75°	1.9
77.5°	1.9
80°	1.0
82.5°	1.0
85°	1.0
87.5°	1.0
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)