

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: P642256

Luminaire Tested: ML5612LSWFL5597FS1E - 696WB - 600LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642256
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-69)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSWFL5597FS1E - 696WB - 600LM - 2700K
Description: ML56 RR, 55D TIR OPTIC, 6" SHALLOW WHITE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

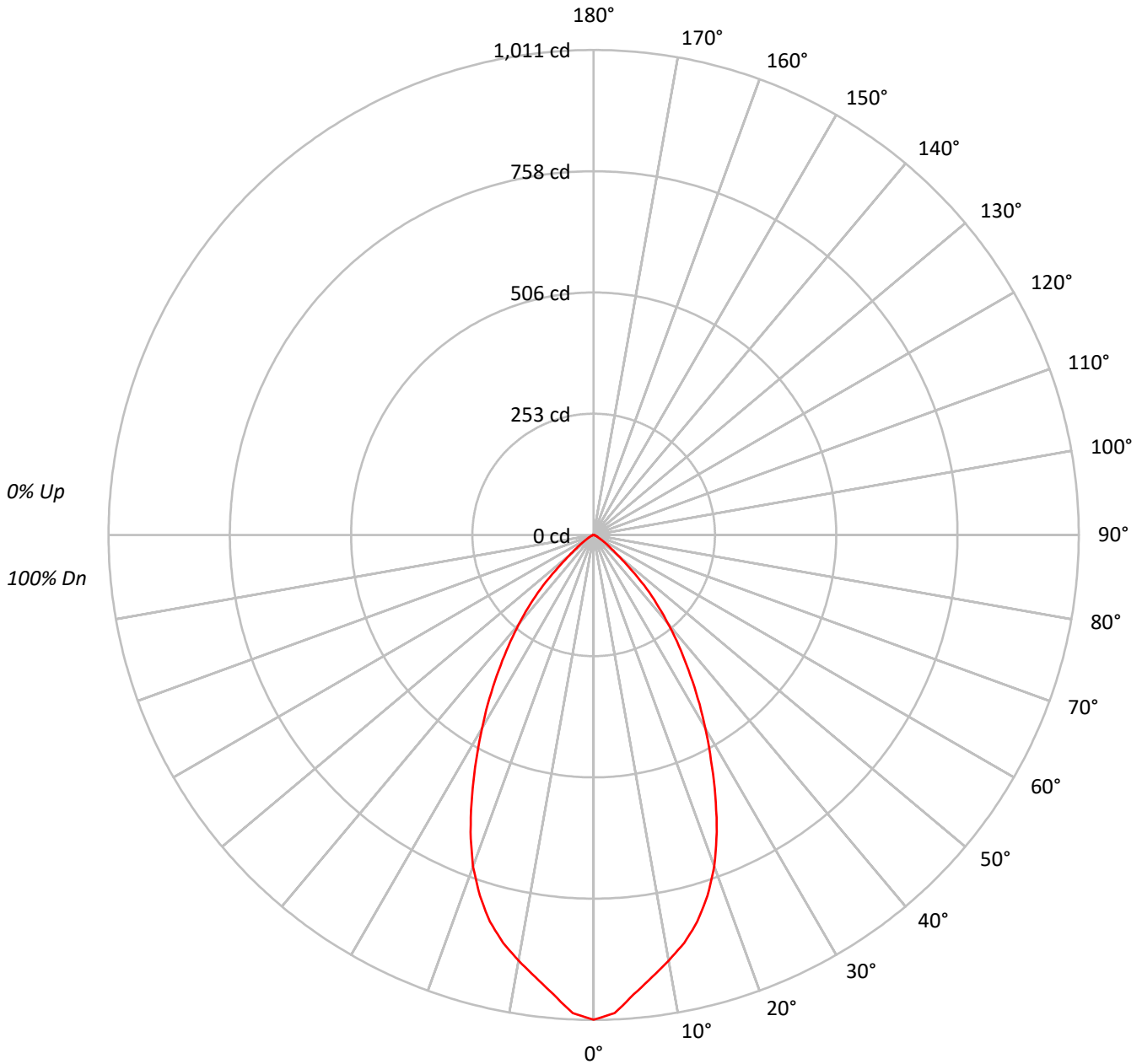
Lumens per Lamp: N/A
Luminaire Lumens: 965.3 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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					20	
RC	80					70					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	80	71	64	60	79	70	64	59	69	63	59	67	62	59	66	62	58	57				
8	76	66	60	55	75	65	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°	55401
5°	52900
10°	50149
15°	47361
20°	42879
25°	36274
30°	29454
35°	23055
40°	17290
45°	11544
50°	5586
55°	2925
60°	1491
65°	999
70°	417
75°	360
80°	284
85°	566

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11544 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.0	9.3
10°-20°	232.3	24.1
20°-30°	274.0	28.4
30°-40°	216.2	22.4
40°-50°	113.3	11.7
50°-60°	29.6	3.1
60°-70°	7.4	0.8
70°-80°	1.8	0.2
80°-90°	0.6	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°	596.3	61.8
0°-40°	812.5	84.2
0°-60°	955.4	99.0
0°-90°	965.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	965.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1011	
5°	961	90
15°	834	232
25°	600	274
35°	344	216
45°	149	113
55°	31	30
65°	8	7
75°	2	2
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1010.6
2.5°	997.9
5°	961.3
7.5°	929.8
10°	900.9
12.5°	871.1
15°	834.5
17.5°	788.6
20°	735.0
22.5°	670.4
25°	599.7
27.5°	530.0
30°	465.3
32.5°	404.1
35°	344.5
37.5°	291.8
40°	241.6
42.5°	194.0
45°	148.9
47.5°	98.7
50°	65.5
52.5°	44.2
55°	30.6
57.5°	19.6
60°	13.6
62.5°	10.2
65°	7.7
67.5°	4.3
70°	2.6
72.5°	1.7
75°	1.7
77.5°	1.7
80°	0.9
82.5°	0.9
85°	0.9
87.5°	0.0
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)