

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: P642211

Luminaire Tested: ML5612LSWFL5597FS1E - 693WB - 600LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642211
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-63)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSWFL5597FS1E - 693WB - 600LM - 2700K
Description: ML56 RR, 55D TIR OPTIC, 6" WHITE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

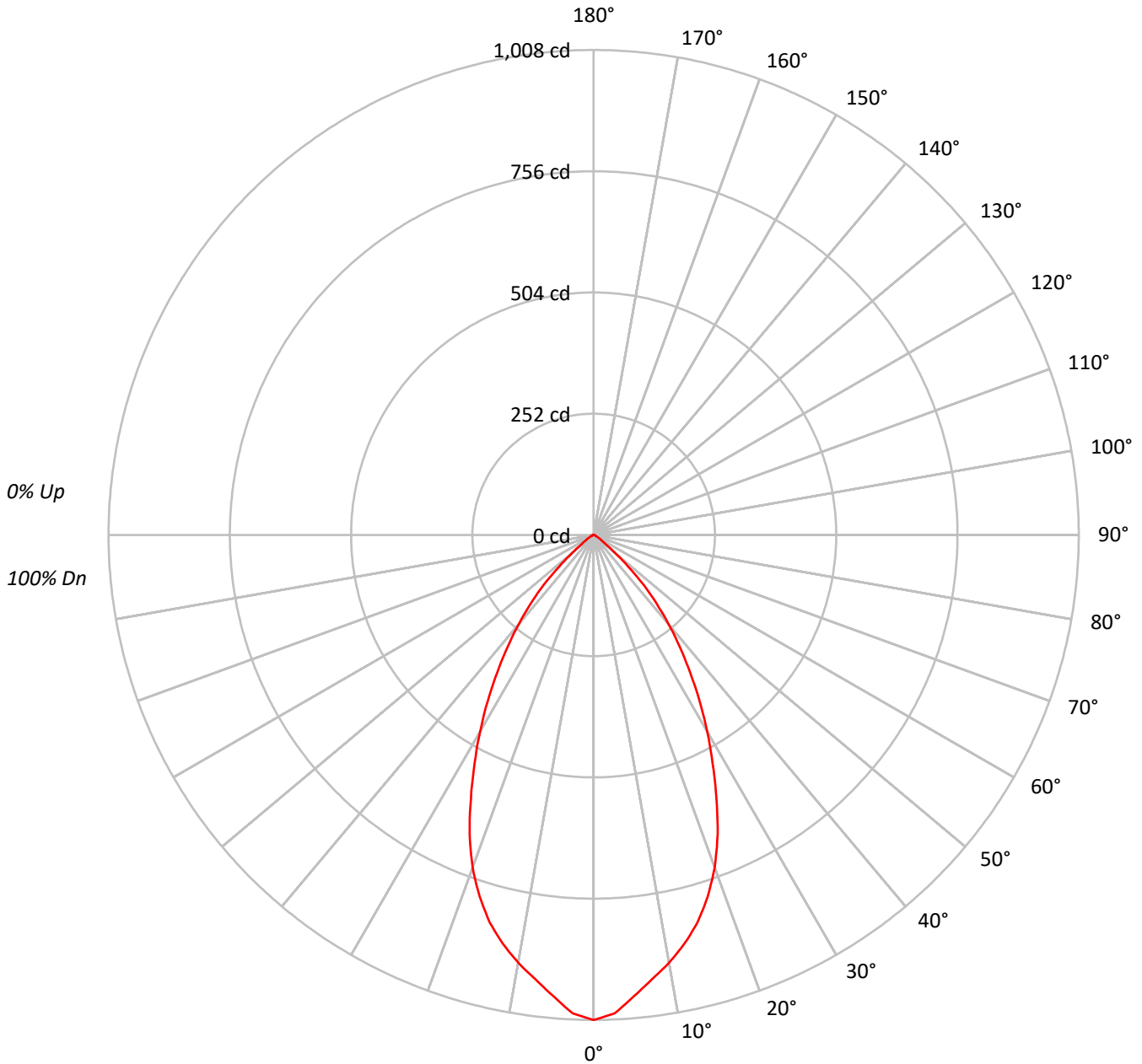
Lumens per Lamp: N/A
Luminaire Lumens: 960.2 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (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	103	104	102	100	100	99	97	97	96	94	93				93															
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85				85															
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78				78															
4	96	87	82	77	94	86	81	77	84	79	76	82	78	75	80	77	74	72				72															
5	90	81	75	71	89	80	75	70	79	73	70	77	72	69	75	71	68	67				67															
6	85	76	69	65	84	75	69	65	73	68	64	72	67	64	71	67	63	62				62															
7	81	71	64	60	79	70	64	60	69	63	59	68	63	59	66	62	59	57				57															
8	77	66	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53				53															
9	73	62	56	52	71	62	56	52	61	55	52	60	55	51	59	55	51	50				50															
10	69	59	53	49	68	58	52	48	57	52	48	57	52	48	56	51	48	47				47															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	55275
5°	52960
10°	50261
15°	47333
20°	42902
25°	36510
30°	29872
35°	23383
40°	17340
45°	11404
50°	4929
55°	2036
60°	1118
65°	558
70°	545
75°	551
80°	537
85°	566

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11404 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.0	9.4
10°-20°	232.3	24.2
20°-30°	276.0	28.7
30°-40°	218.7	22.8
40°-50°	111.5	11.6
50°-60°	22.7	2.4
60°-70°	5.0	0.5
70°-80°	2.7	0.3
80°-90°	1.2	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°	598.3	62.3
0°-40°	817.0	85.1
0°-60°	951.2	99.1
0°-90°	960.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	960.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1008	
5°	962	90
15°	834	232
25°	604	276
35°	349	219
45°	147	112
55°	21	23
65°	4	5
75°	3	3
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1008.3
2.5°	995.6
5°	962.4
7.5°	931.0
10°	902.9
12.5°	870.6
15°	834.0
17.5°	788.1
20°	735.4
22.5°	673.4
25°	603.6
27.5°	535.6
30°	471.9
32.5°	409.8
35°	349.4
37.5°	294.2
40°	242.3
42.5°	193.0
45°	147.1
47.5°	96.1
50°	57.8
52.5°	32.3
55°	21.3
57.5°	15.3
60°	10.2
62.5°	6.0
65°	4.3
67.5°	3.4
70°	3.4
72.5°	2.6
75°	2.6
77.5°	2.6
80°	1.7
82.5°	1.7
85°	0.9
87.5°	0.9
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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(END OF REPORT)