

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: P642032

Luminaire Tested: ML5612LSWFL5597FS1E - 593WB - 600LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642032
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-51)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSWFL5597FS1E - 593WB - 600LM - 3000K
Description: ML56 RR, 55D TIR OPTIC, 5" WHITE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

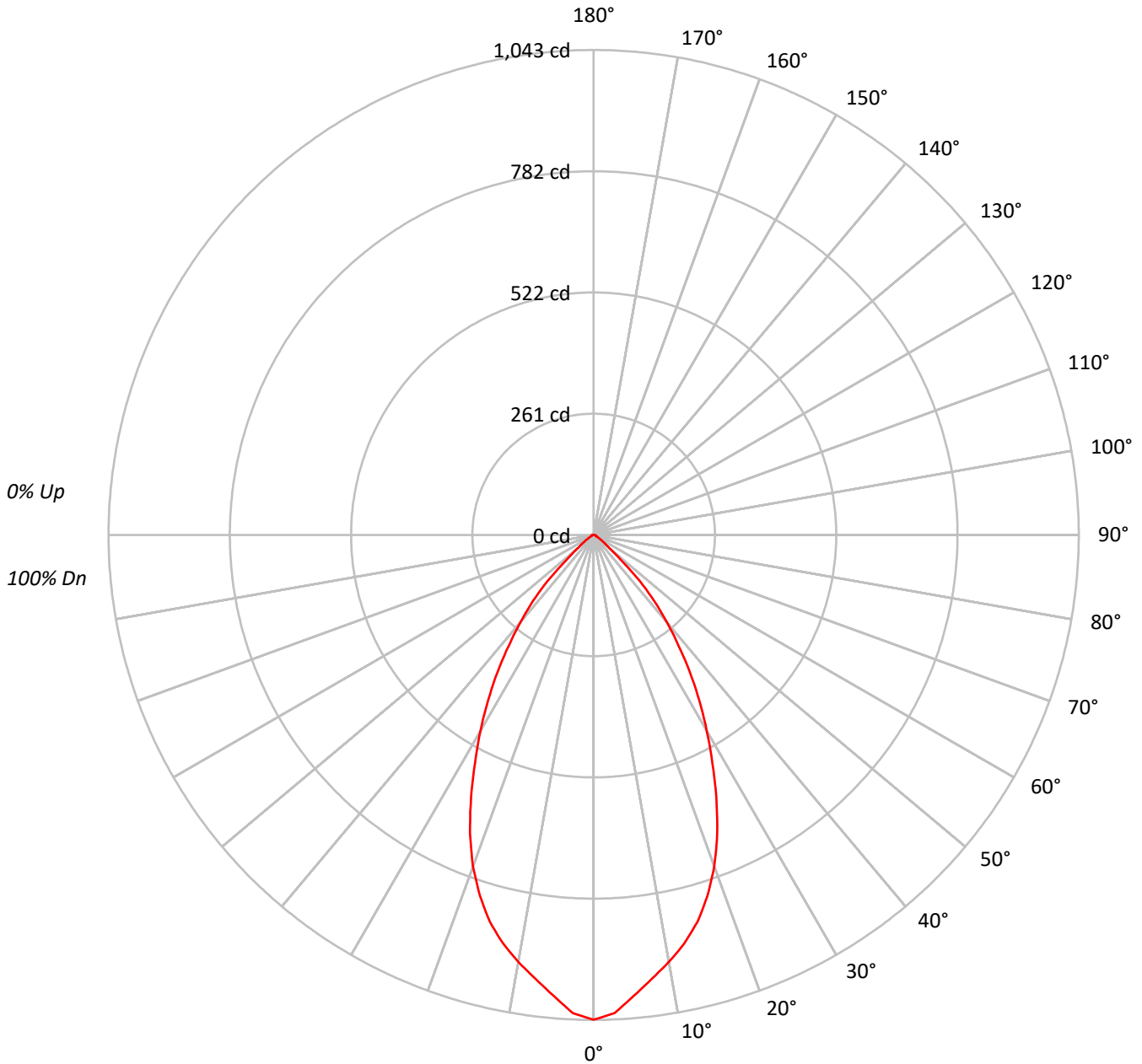
Lumens per Lamp: N/A
Luminaire Lumens: 980.5 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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			100
1	113	110	107	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	86	83	80	79			79
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72			72
5	90	82	75	71	89	81	75	70	79	74	70	77	73	69	75	72	68	67			67
6	85	76	70	65	84	75	69	65	74	68	64	72	68	64	71	67	64	62			62
7	81	71	65	60	80	70	64	60	69	64	60	68	63	59	67	62	59	58			58
8	77	67	60	56	75	66	60	56	65	59	56	64	59	55	63	58	55	54			54
9	73	63	56	52	72	62	56	52	61	56	52	60	55	52	59	55	52	50			50
10	69	59	53	49	68	59	53	49	58	52	49	57	52	48	56	52	48	47			47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	82304
5°	78807
10°	74740
15°	70415
20°	63711
25°	54325
30°	44328
35°	34731
40°	25144
45°	15630
50°	5588
55°	3014
60°	1516
65°	1139
70°	1200
75°	1068
80°	1182
85°	1540

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15630 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.0	9.5
10°-20°	239.9	24.5
20°-30°	284.8	29.0
30°-40°	224.3	22.9
40°-50°	105.4	10.7
50°-60°	21.2	2.2
60°-70°	6.4	0.6
70°-80°	4.0	0.4
80°-90°	1.5	0.2
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°	617.7	63.0
0°-40°	842.0	85.9
0°-60°	968.6	98.8
0°-90°	980.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	980.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1043	
5°	994	93
15°	862	240
25°	624	285
35°	360	224
45°	140	105
55°	22	21
65°	6	6
75°	4	4
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1042.6
2.5°	1029.5
5°	994.5
7.5°	962.2
10°	932.4
12.5°	900.1
15°	861.6
17.5°	813.5
20°	758.4
22.5°	694.5
25°	623.7
27.5°	552.8
30°	486.3
32.5°	422.5
35°	360.4
37.5°	299.1
40°	244.0
42.5°	193.3
45°	140.0
47.5°	77.8
50°	45.5
52.5°	31.5
55°	21.9
57.5°	14.9
60°	9.6
62.5°	7.0
65°	6.1
67.5°	5.2
70°	5.2
72.5°	4.4
75°	3.5
77.5°	3.5
80°	2.6
82.5°	1.7
85°	1.7
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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