

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: P641345

Luminaire Tested: ML5612LSVWFL7597FS1E - 593WB - 600LM - 5000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641345
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-74)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSVWFL7597FS1E - 593WB - 600LM - 5000K
Description: ML56 RR, 75D TIR OPTIC, 5" WHITE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

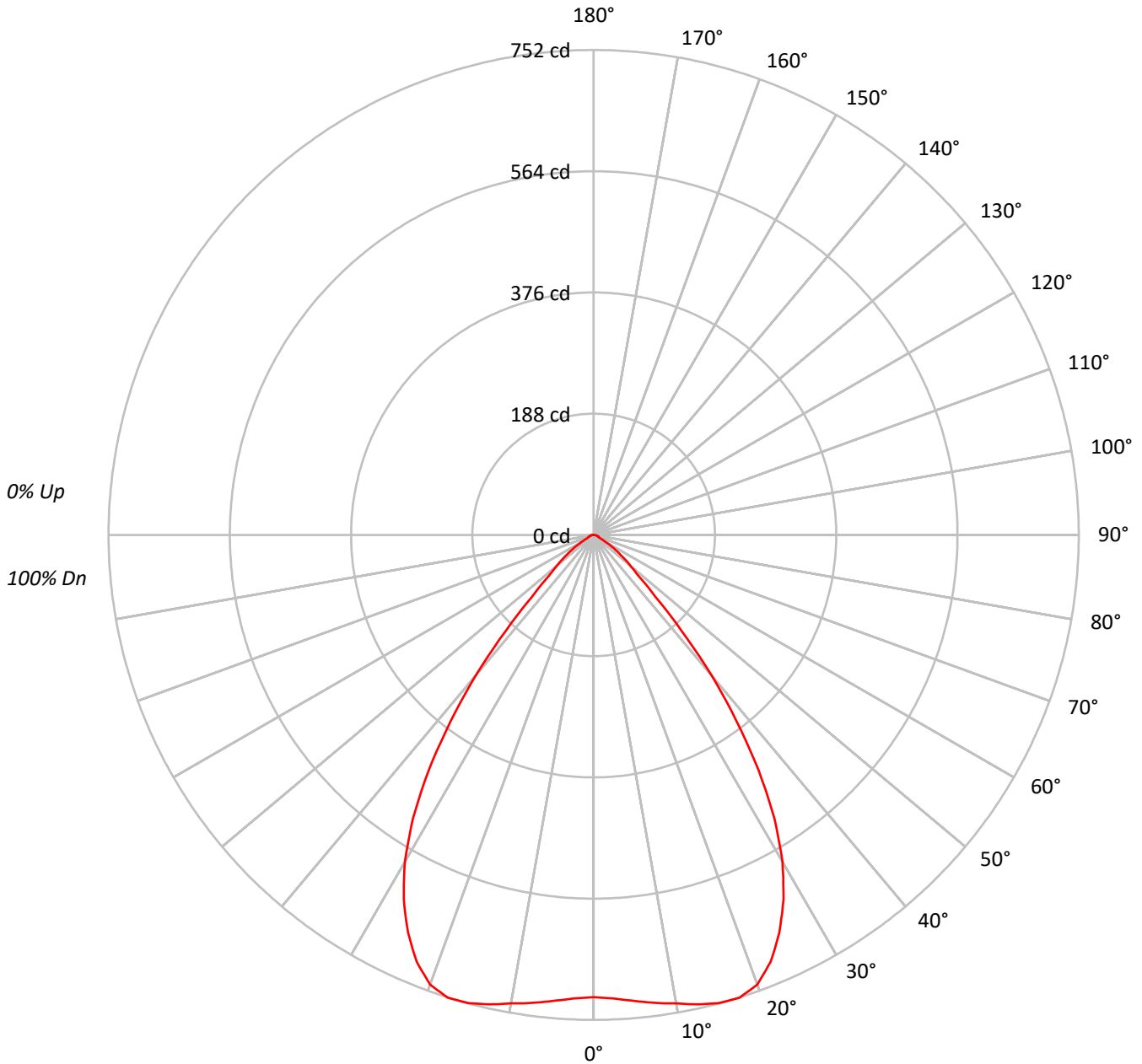
Lumens per Lamp: N/A
Luminaire Lumens: 1040.6 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.09
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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																			
1	113	110	107	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92																			
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	85	84																			
3	100	93	87	83	98	91	86	82	89	84	81	86	82	79	84	81	78	76																			
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70																			
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64																			
6	83	73	66	62	82	72	66	61	71	65	61	69	64	61	68	64	60	59																			
7	78	68	61	57	77	67	61	56	66	60	56	65	60	56	64	59	55	54																			
8	74	63	57	52	73	63	56	52	62	56	52	61	55	51	60	55	51	50																			
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	48	46																			
10	66	55	49	45	65	55	49	45	54	48	44	53	48	44	52	48	44	43																			

AVERAGE LUMINANCE (cd/sqm):

0°	
0°	56569
5°	57475
10°	59141
15°	61409
20°	62308
25°	59299
30°	53334
35°	42961
40°	29194
45°	15116
50°	9260
55°	6125
60°	3047
65°	1812
70°	1777
75°	1769
80°	1773
85°	1721

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15116 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.6	6.7
10°-20°	211.9	20.4
20°-30°	310.1	29.8
30°-40°	273.4	26.3
40°-50°	115.8	11.1
50°-60°	40.3	3.9
60°-70°	11.2	1.1
70°-80°	6.1	0.6
80°-90°	2.1	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°	591.7	56.9
0°-40°	865.1	83.1
0°-60°	1021.2	98.1
0°-90°	1040.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1040.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	717	
5°	725	70
15°	751	212
25°	681	310
35°	446	273
45°	135	116
55°	44	40
65°	10	11
75°	6	6
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	716.6
2.5°	719.5
5°	725.3
7.5°	732.0
10°	737.8
12.5°	745.6
15°	751.4
17.5°	752.3
20°	741.7
22.5°	716.6
25°	680.8
27.5°	637.3
30°	585.1
32.5°	521.2
35°	445.8
37.5°	363.6
40°	283.3
42.5°	201.1
45°	135.4
47.5°	93.8
50°	75.4
52.5°	58.0
55°	44.5
57.5°	31.9
60°	19.3
62.5°	13.5
65°	9.7
67.5°	8.7
70°	7.7
72.5°	6.8
75°	5.8
77.5°	4.8
80°	3.9
82.5°	2.9
85°	1.9
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)