

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: P641339

Luminaire Tested: ML5612LSVWFL7597FS1E - 593WB - 1200LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641339
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 - 1200LM - 4000K
Description: ML56 RR, 75D TIR OPTIC, 5" WHITE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

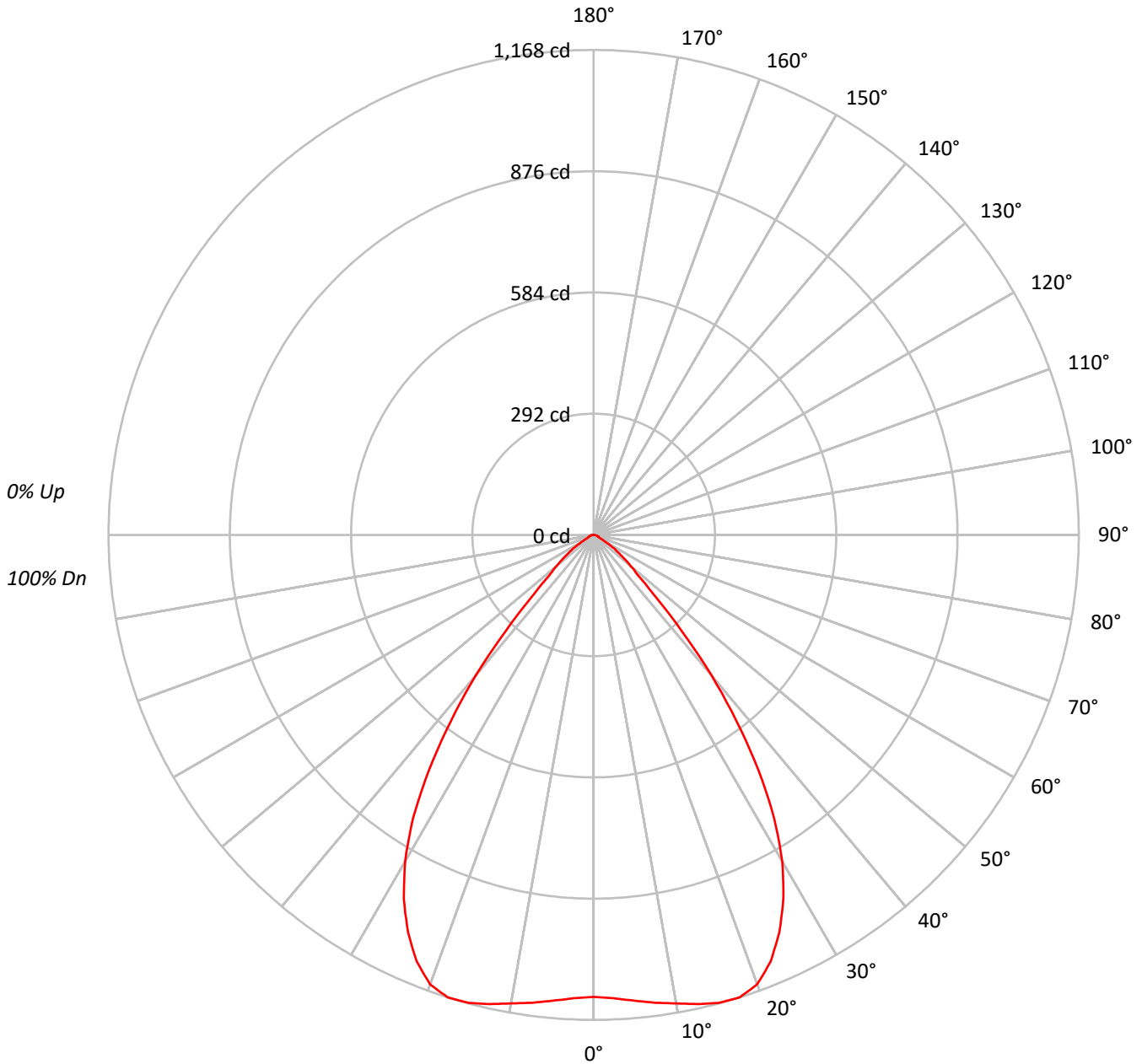
Lumens per Lamp: N/A
Luminaire Lumens: 1615.5 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.09
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 16.5
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				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	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°	87822
5°	89227
10°	91822
15°	95333
20°	96734
25°	92058
30°	82794
35°	66697
40°	45332
45°	23467
50°	14381
55°	9510
60°	4736
65°	2802
70°	2770
75°	2745
80°	2728
85°	2717

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 23467 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.1	6.7
10°-20°	329.0	20.4
20°-30°	481.4	29.8
30°-40°	424.5	26.3
40°-50°	179.8	11.1
50°-60°	62.6	3.9
60°-70°	17.4	1.1
70°-80°	9.5	0.6
80°-90°	3.3	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°	918.5	56.9
0°-40°	1343.0	83.1
0°-60°	1585.4	98.1
0°-90°	1615.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1615.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1112	
5°	1126	108
15°	1166	329
25°	1057	481
35°	692	424
45°	210	180
55°	69	63
65°	15	17
75°	9	9
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1112.5
2.5°	1117.0
5°	1126.0
7.5°	1136.5
10°	1145.5
12.5°	1157.5
15°	1166.5
17.5°	1168.0
20°	1151.5
22.5°	1112.5
25°	1056.9
27.5°	989.4
30°	908.3
32.5°	809.2
35°	692.1
37.5°	564.5
40°	439.9
42.5°	312.3
45°	210.2
47.5°	145.6
50°	117.1
52.5°	90.1
55°	69.1
57.5°	49.5
60°	30.0
62.5°	21.0
65°	15.0
67.5°	13.5
70°	12.0
72.5°	10.5
75°	9.0
77.5°	7.5
80°	6.0
82.5°	4.5
85°	3.0
87.5°	1.5
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)