

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: P641411

Luminaire Tested: ML5612LSVWFL7597FS1E - 691WB - 1200LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641411
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-82)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSVWFL7597FS1E - 691WB - 1200LM - 2700K
Description: ML56 RR, 75D TIR OPTIC, 6" DEADFRONT TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

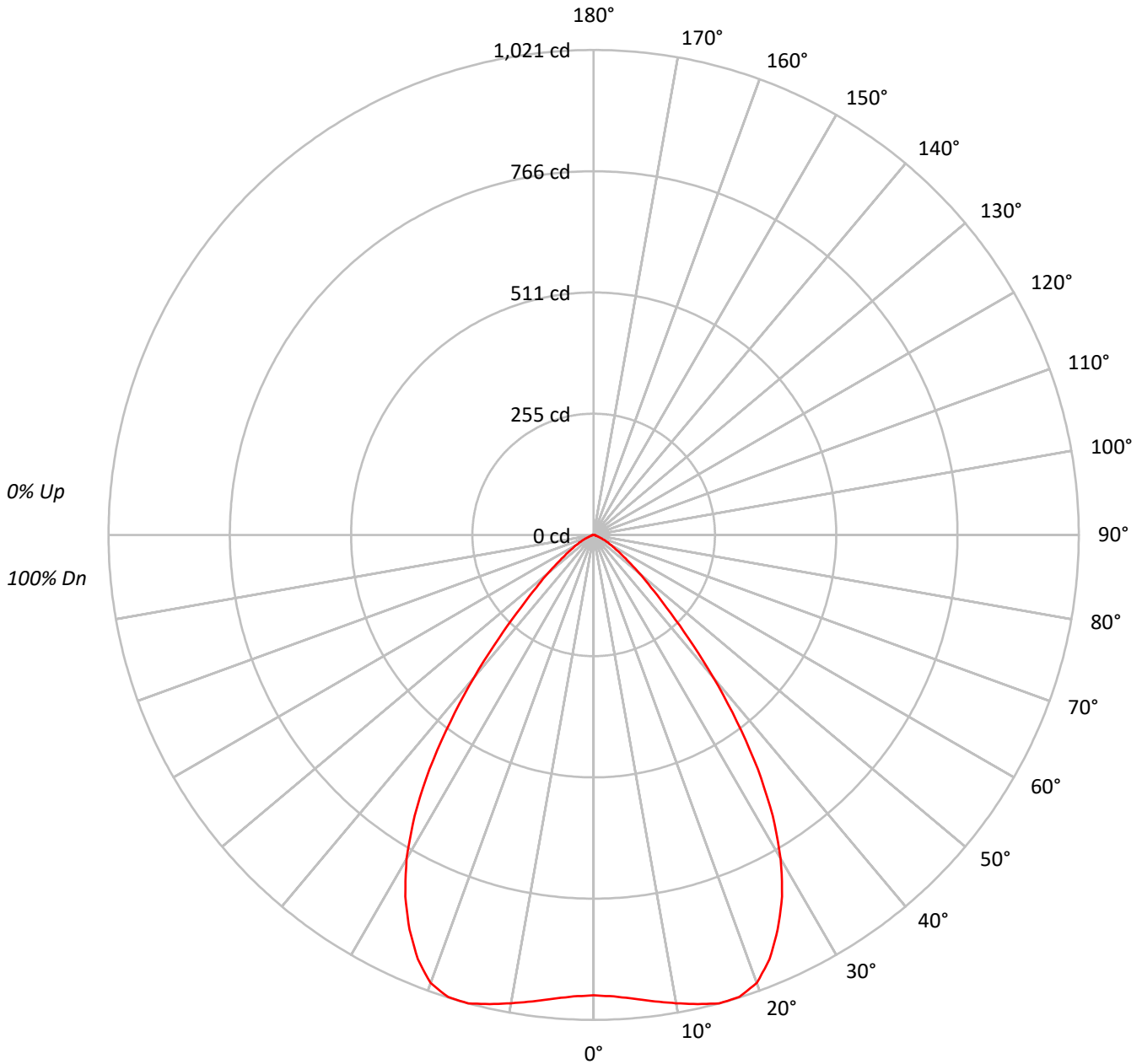
Lumens per Lamp: N/A
Luminaire Lumens: 1443.6 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.09
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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			100	
1	113	110	107	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92			92	
2	106	100	96	92	104	99	95	91	95	92	89	92	90	87	90	87	85	83			83	
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76			76	
4	94	85	79	74	92	84	78	73	82	76	72	79	75	72	78	74	71	69			69	
5	88	78	72	67	86	77	71	67	76	70	66	74	69	65	72	68	65	63			63	
6	83	73	66	61	81	72	65	61	70	64	60	69	64	60	67	63	59	58			58	
7	78	67	61	56	76	67	60	56	65	59	55	64	59	55	63	58	55	53			53	
8	73	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	50	49			49	
9	69	58	52	47	68	58	52	47	57	51	47	56	51	47	55	50	47	45			45	
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42			42	

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	53148
5°	53934
10°	55733
15°	57946
20°	58566
25°	55449
30°	49830
35°	40308
40°	27981
45°	16792
50°	10703
55°	6690
60°	4484
65°	2919
70°	1475
75°	847
80°	821
85°	818

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16792 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.2	6.5
10°-20°	287.5	19.9
20°-30°	418.0	29.0
30°-40°	370.1	25.6
40°-50°	177.9	12.3
50°-60°	66.2	4.6
60°-70°	22.7	1.6
70°-80°	5.1	0.4
80°-90°	1.8	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°	799.7	55.4
0°-40°	1169.9	81.0
0°-60°	1414.0	98.0
0°-90°	1443.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1443.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	970	
5°	980	94
15°	1021	287
25°	917	418
35°	602	370
45°	217	178
55°	70	66
65°	22	23
75°	4	5
85°	1	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	969.5
2.5°	972.2
5°	980.1
7.5°	990.7
10°	1001.2
12.5°	1011.8
15°	1021.0
17.5°	1019.7
20°	1003.9
22.5°	966.9
25°	916.7
27.5°	858.6
30°	787.2
32.5°	701.4
35°	602.3
37.5°	495.3
40°	391.0
42.5°	294.6
45°	216.6
47.5°	163.8
50°	125.5
52.5°	92.5
55°	70.0
57.5°	52.8
60°	40.9
62.5°	31.7
65°	22.5
67.5°	13.2
70°	9.2
72.5°	5.3
75°	4.0
77.5°	4.0
80°	2.6
82.5°	2.6
85°	1.3
87.5°	1.3
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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