

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: P641549

Luminaire Tested: ML5612LSVWFL7597FS1E - 694WB - 1200LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641549
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-90)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSVWFL7597FS1E - 694WB - 1200LM - 4000K
Description: ML56 RR, 75D TIR OPTIC, 6" WHITE GIMBAL TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

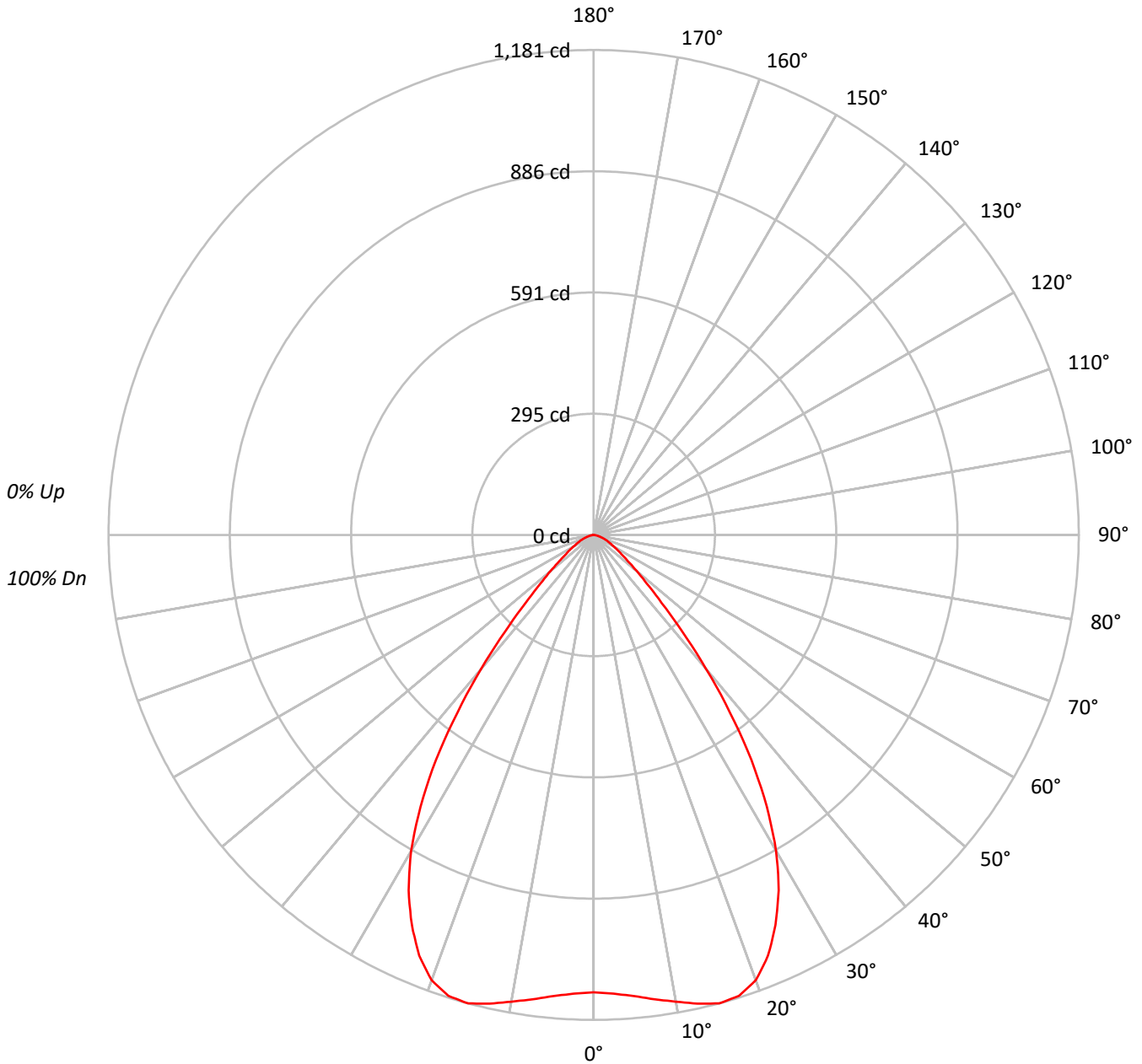
Lumens per Lamp: N/A
Luminaire Lumens: 1657.6 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.08
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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									
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	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91																			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83																			
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75																			
4	93	84	78	73	91	83	77	73	81	76	72	79	74	71	77	73	70	68																			
5	88	78	71	66	86	77	71	66	75	69	65	73	68	65	72	67	64	62																			
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	57																			
7	78	67	60	55	76	66	60	55	65	59	55	64	58	54	62	58	54	53																			
8	73	62	56	51	72	62	55	51	61	55	50	59	54	50	58	54	50	48																			
9	69	58	51	47	68	58	51	47	57	51	47	56	50	47	55	50	46	45																			
10	65	54	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	61048
5°	62024
10°	64244
15°	67032
20°	67328
25°	63367
30°	56243
35°	44798
40°	30500
45°	18149
50°	11650
55°	8028
60°	6249
65°	5059
70°	4087
75°	3177
80°	1894
85°	943

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 18149 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.5	6.5
10°-20°	331.8	20.0
20°-30°	477.0	28.8
30°-40°	411.5	24.8
40°-50°	192.4	11.6
50°-60°	78.9	4.8
60°-70°	39.5	2.4
70°-80°	16.0	1.0
80°-90°	2.0	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°	917.3	55.3
0°-40°	1328.8	80.2
0°-60°	1600.1	96.5
0°-90°	1657.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1657.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1114	
5°	1127	108
15°	1181	332
25°	1048	477
35°	669	411
45°	234	192
55°	84	79
65°	39	39
75°	15	16
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1113.6
2.5°	1118.1
5°	1127.1
7.5°	1140.6
10°	1154.1
12.5°	1169.1
15°	1181.1
17.5°	1176.6
20°	1154.1
22.5°	1109.1
25°	1047.6
27.5°	975.5
30°	888.5
32.5°	784.9
35°	669.4
37.5°	544.8
40°	426.2
42.5°	318.2
45°	234.1
47.5°	175.6
50°	136.6
52.5°	105.1
55°	84.0
57.5°	69.0
60°	57.0
62.5°	46.5
65°	39.0
67.5°	33.0
70°	25.5
72.5°	19.5
75°	15.0
77.5°	10.5
80°	6.0
82.5°	3.0
85°	1.5
87.5°	0.0
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)