

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: P641548

Luminaire Tested: ML5612LSVWFL7597FS1E - 694WB - 1200LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641548
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 - 3500K
Description: ML56 RR, 75D TIR OPTIC, 6" WHITE GIMBAL TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1540.6 lumens
Efficiency: N/A
Efficacy: 93.4 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

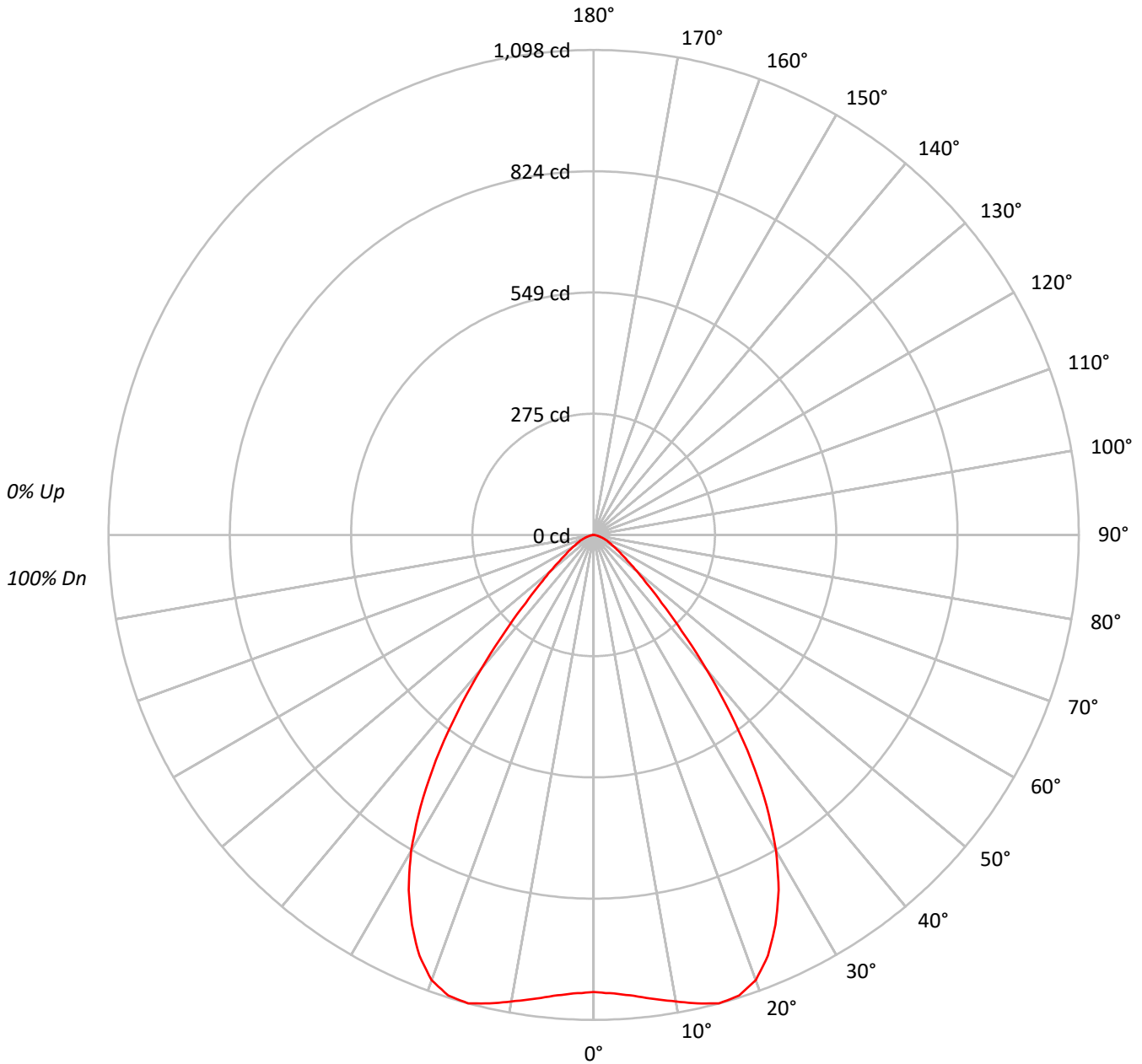
Input Watts (W): 16.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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
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°	56739
5°	57643
10°	59707
15°	62305
20°	62574
25°	58890
30°	52274
35°	41633
40°	28346
45°	16870
50°	10823
55°	7464
60°	5811
65°	4709
70°	3799
75°	2944
80°	1768
85°	881

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16870 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.8	6.5
10°-20°	308.4	20.0
20°-30°	443.4	28.8
30°-40°	382.4	24.8
40°-50°	178.8	11.6
50°-60°	73.4	4.8
60°-70°	36.7	2.4
70°-80°	14.9	1.0
80°-90°	1.9	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°	852.6	55.3
0°-40°	1235.0	80.2
0°-60°	1487.1	96.5
0°-90°	1540.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1540.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1035	
5°	1048	101
15°	1098	308
25°	974	443
35°	622	382
45°	218	179
55°	78	73
65°	36	37
75°	14	15
85°	1	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1035.0
2.5°	1039.2
5°	1047.5
7.5°	1060.1
10°	1072.6
12.5°	1086.6
15°	1097.8
17.5°	1093.6
20°	1072.6
22.5°	1030.8
25°	973.6
27.5°	906.7
30°	825.8
32.5°	729.5
35°	622.1
37.5°	506.3
40°	396.1
42.5°	295.7
45°	217.6
47.5°	163.2
50°	126.9
52.5°	97.6
55°	78.1
57.5°	64.2
60°	53.0
62.5°	43.2
65°	36.3
67.5°	30.7
70°	23.7
72.5°	18.1
75°	13.9
77.5°	9.8
80°	5.6
82.5°	2.8
85°	1.4
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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