

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: P641547

Luminaire Tested: ML5612LSVWFL7597FS1E - 694WB - 1200LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641547
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 - 3000K
Description: ML56 RR, 75D TIR OPTIC, 6" WHITE GIMBAL TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

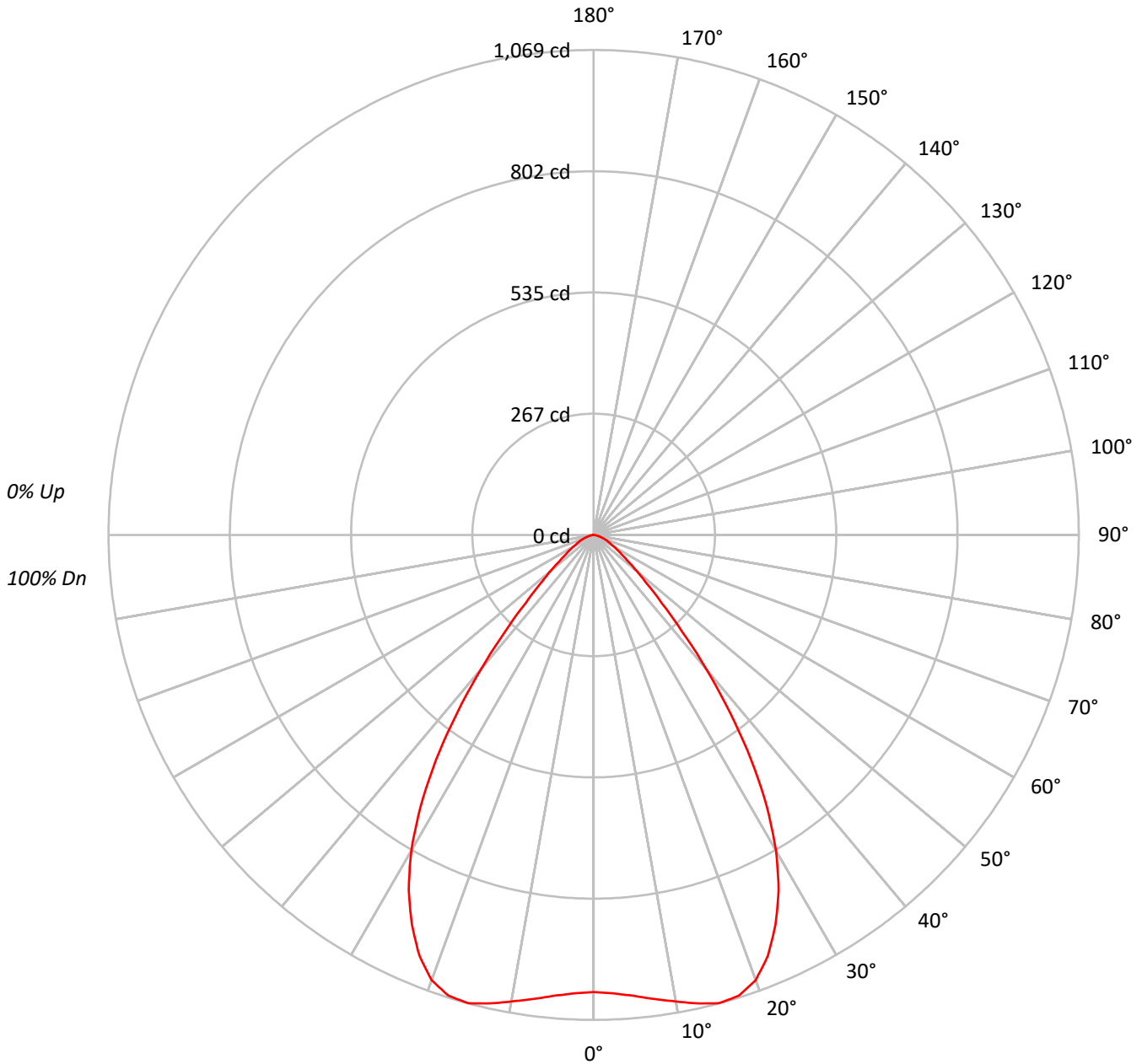
Lumens per Lamp: N/A
Luminaire Lumens: 1499.8 lumens
Efficiency: N/A
Efficacy: 90.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.08
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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									
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°	55237
5°	56119
10°	58126
15°	60653
20°	60917
25°	57330
30°	50888
35°	40529
40°	27595
45°	16420
50°	10541
55°	7264
60°	5657
65°	4579
70°	3703
75°	2881
80°	1705
85°	881

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16420 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.2	6.5
10°-20°	300.2	20.0
20°-30°	431.6	28.8
30°-40°	372.3	24.8
40°-50°	174.0	11.6
50°-60°	71.4	4.8
60°-70°	35.7	2.4
70°-80°	14.5	1.0
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°	830.0	55.3
0°-40°	1202.2	80.2
0°-60°	1447.7	96.5
0°-90°	1499.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1499.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1008	
5°	1020	98
15°	1069	300
25°	948	432
35°	606	372
45°	212	174
55°	76	71
65°	35	36
75°	14	14
85°	1	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1007.6
2.5°	1011.6
5°	1019.8
7.5°	1032.0
10°	1044.2
12.5°	1057.8
15°	1068.7
17.5°	1064.6
20°	1044.2
22.5°	1003.5
25°	947.8
27.5°	882.6
30°	803.9
32.5°	710.2
35°	605.6
37.5°	492.9
40°	385.6
42.5°	287.9
45°	211.8
47.5°	158.9
50°	123.6
52.5°	95.1
55°	76.0
57.5°	62.5
60°	51.6
62.5°	42.1
65°	35.3
67.5°	29.9
70°	23.1
72.5°	17.7
75°	13.6
77.5°	9.5
80°	5.4
82.5°	2.7
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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