

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: P642243

Luminaire Tested: ML5612LSWFL5597FS1E - 694WB - 600LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642243
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-67)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSWFL5597FS1E - 694WB - 600LM - 3500K
Description: ML56 RR, 55D TIR OPTIC, 6" WHITE GIMBAL TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

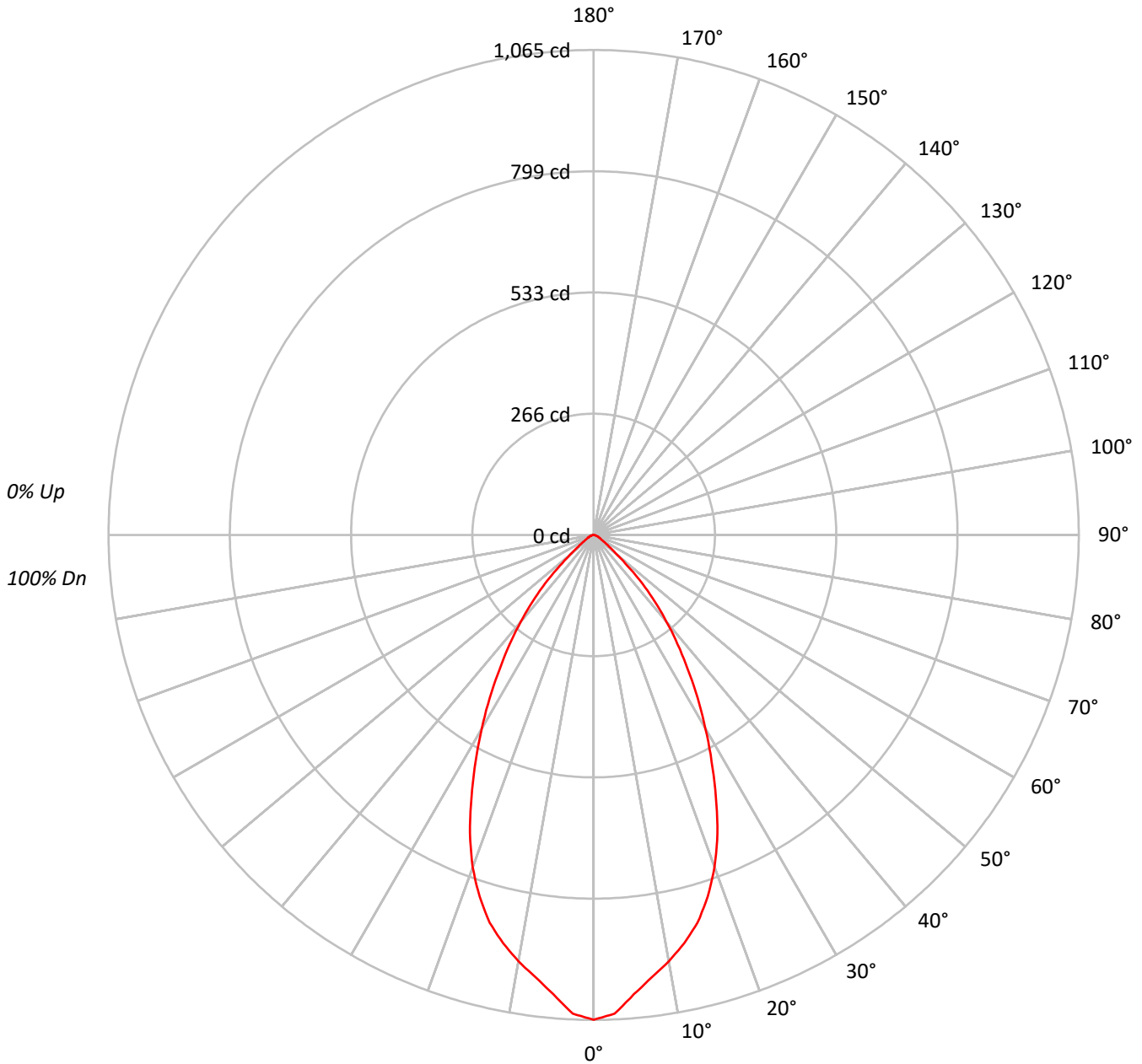
Lumens per Lamp: N/A
Luminaire Lumens: 1021.6 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 10.3
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									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	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	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92																												
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86	85																												
3	101	94	88	84	99	92	87	83	90	85	82	87	84	81	85	82	79	78																												
4	95	87	81	76	93	86	80	76	84	79	75	81	77	74	80	76	73	72																												
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66																												
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	63	61																												
7	80	70	64	59	79	70	63	59	68	63	59	67	62	58	66	61	58	57																												
8	76	66	59	55	75	65	59	55	64	59	55	63	58	54	62	58	54	53																												
9	72	62	56	51	71	61	55	51	60	55	51	59	54	51	59	54	51	49																												
10	69	58	52	48	68	58	52	48	57	51	48	56	51	48	55	51	47	46																												

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	58373
5°	55723
10°	52916
15°	50029
20°	45288
25°	38373
30°	31055
35°	24112
40°	17812
45°	11707
50°	5671
55°	3001
60°	2072
65°	1634
70°	1443
75°	953
80°	568
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11707 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.8	9.3
10°-20°	245.3	24.0
20°-30°	289.8	28.4
30°-40°	226.0	22.1
40°-50°	115.5	11.3
50°-60°	31.5	3.1
60°-70°	13.0	1.3
70°-80°	5.2	0.5
80°-90°	0.5	0.0
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°	629.9	61.7
0°-40°	855.8	83.8
0°-60°	1002.9	98.2
0°-90°	1021.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1021.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1065	
5°	1013	95
15°	882	245
25°	634	290
35°	360	226
45°	151	116
55°	31	32
65°	13	13
75°	4	5
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1064.8
2.5°	1052.2
5°	1012.6
7.5°	979.4
10°	950.6
12.5°	918.3
15°	881.5
17.5°	832.9
20°	776.3
22.5°	709.8
25°	634.4
27.5°	560.7
30°	490.6
32.5°	425.0
35°	360.3
37.5°	302.8
40°	248.9
42.5°	198.6
45°	151.0
47.5°	99.7
50°	66.5
52.5°	44.9
55°	31.4
57.5°	23.4
60°	18.9
62.5°	15.3
65°	12.6
67.5°	10.8
70°	9.0
72.5°	6.3
75°	4.5
77.5°	3.6
80°	1.8
82.5°	0.9
85°	0.0
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)