

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: P641546

Luminaire Tested: ML5612LSVWFL7597FS1E - 694WB - 1200LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641546
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 - 2700K
Description: ML56 RR, 75D TIR OPTIC, 6" WHITE GIMBAL TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1458.0 lumens
Efficiency: N/A
Efficacy: 88.4 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

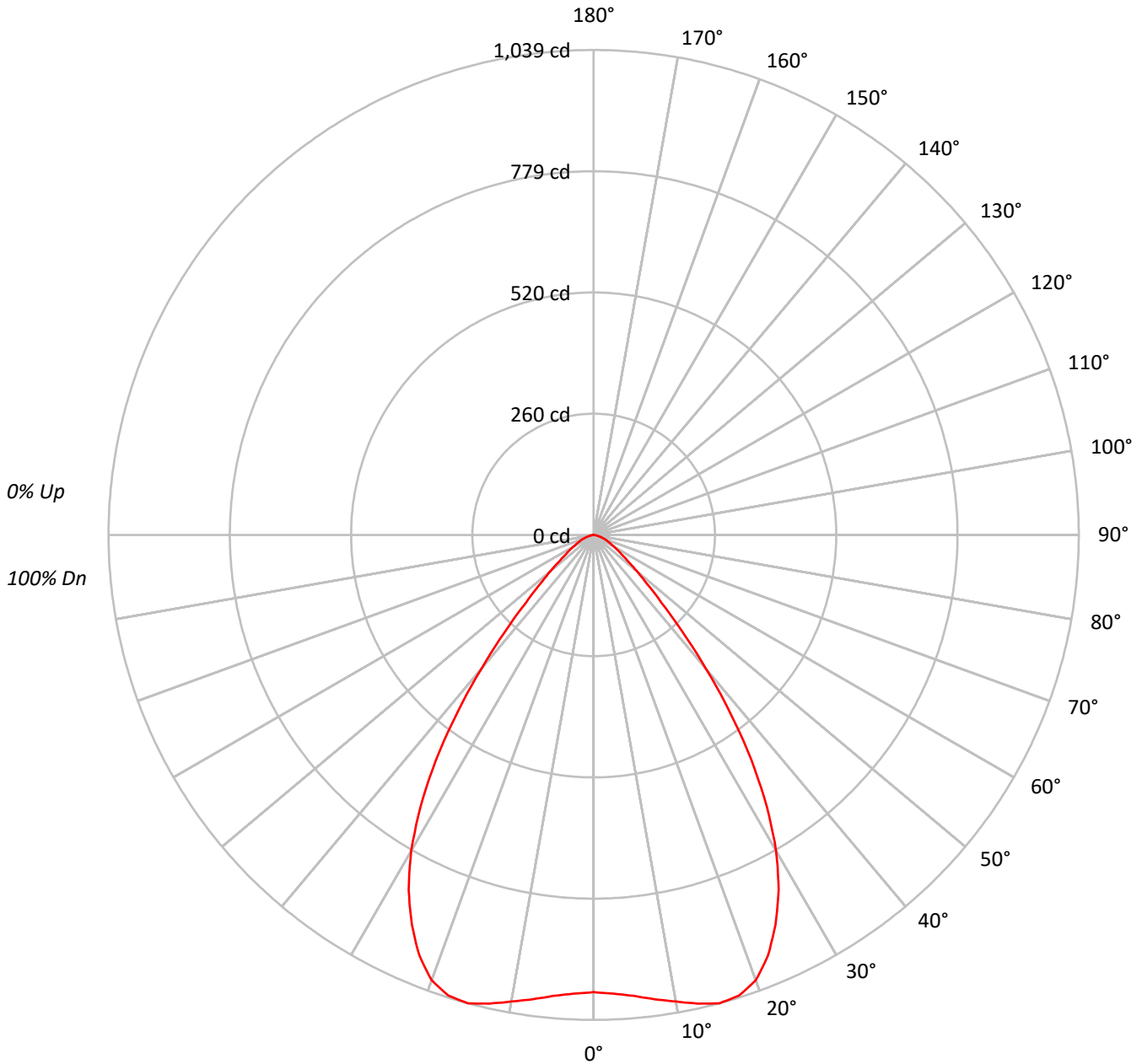
Input Watts (W): 16.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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	52	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°	53702
5°	54562
10°	56512
15°	58967
20°	59225
25°	55739
30°	49470
35°	39404
40°	26829
45°	15963
50°	10243
55°	7063
60°	5504
65°	4449
70°	3590
75°	2796
80°	1673
85°	818

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15963 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.4	6.5
10°-20°	291.9	20.0
20°-30°	419.6	28.8
30°-40°	361.9	24.8
40°-50°	169.2	11.6
50°-60°	69.4	4.8
60°-70°	34.7	2.4
70°-80°	14.1	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°	806.9	55.3
0°-40°	1168.8	80.2
0°-60°	1407.5	96.5
0°-90°	1458.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1458.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	980	
5°	992	95
15°	1039	292
25°	922	420
35°	589	362
45°	206	169
55°	74	69
65°	34	35
75°	13	14
85°	1	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	979.6
2.5°	983.5
5°	991.5
7.5°	1003.3
10°	1015.2
12.5°	1028.4
15°	1039.0
17.5°	1035.0
20°	1015.2
22.5°	975.6
25°	921.5
27.5°	858.1
30°	781.5
32.5°	690.5
35°	588.8
37.5°	479.2
40°	374.9
42.5°	279.9
45°	205.9
47.5°	154.5
50°	120.1
52.5°	92.4
55°	73.9
57.5°	60.7
60°	50.2
62.5°	40.9
65°	34.3
67.5°	29.0
70°	22.4
72.5°	17.2
75°	13.2
77.5°	9.2
80°	5.3
82.5°	2.6
85°	1.3
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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