

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: P641460

Luminaire Tested: ML5612LSVWFL7597FS1E - 692W - 1200LM - 5000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641460
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-85)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSVWFL7597FS1E - 692W - 1200LM - 5000K
Description: ML56 RR, 75D TIR OPTIC, 6" WHITE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1643.2 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.09
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

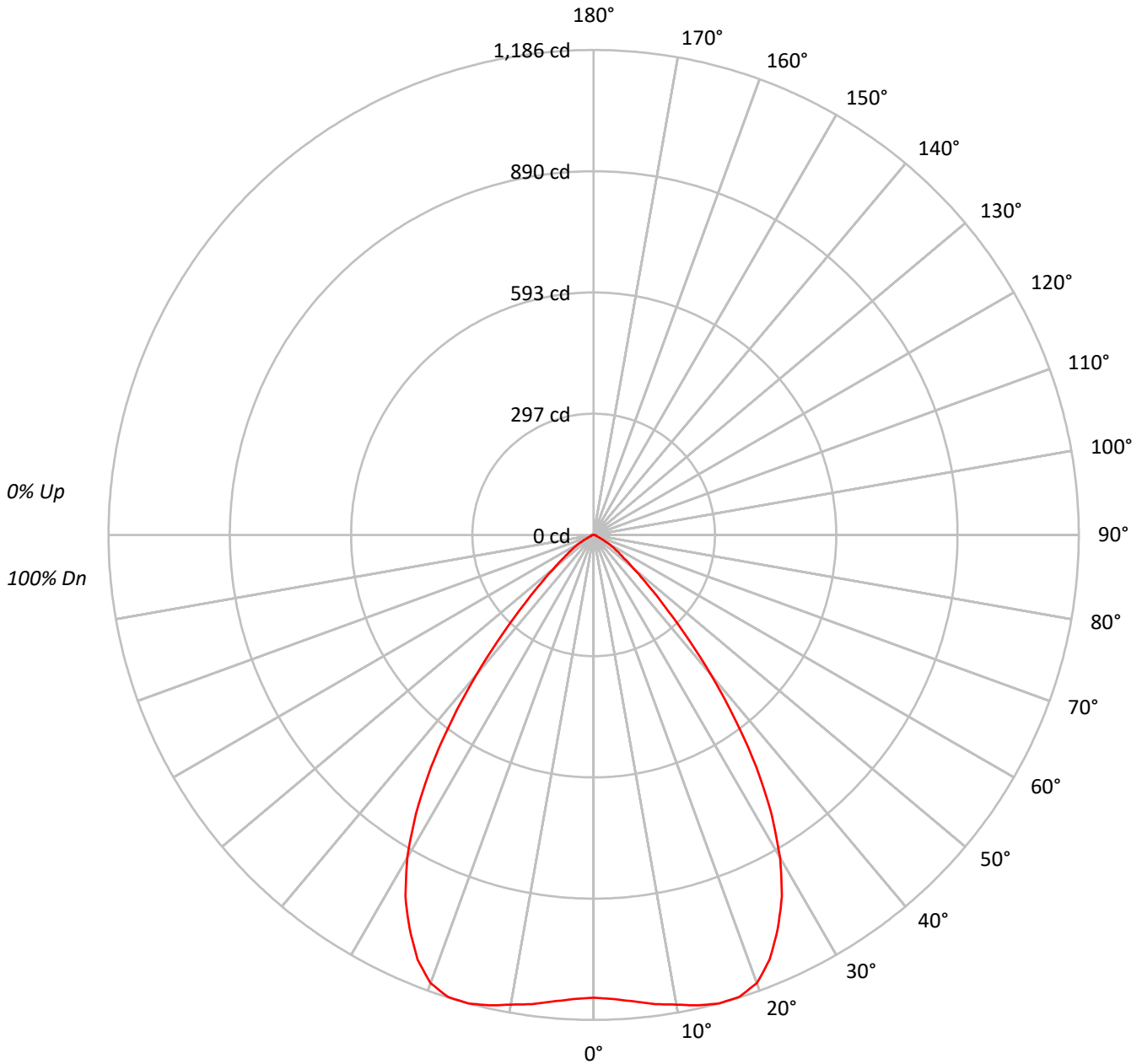
Input Watts (W): 16.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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			100																
1	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92			92																
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	84			84																
3	100	93	87	83	98	91	86	82	89	84	81	86	82	79	84	81	78	76			76																
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70			70																
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64			64																
6	83	73	66	62	82	72	66	61	71	65	61	69	64	61	68	64	60	58			58																
7	78	68	61	56	77	67	61	56	66	60	56	65	60	56	63	59	55	54			54																
8	74	63	57	52	73	63	56	52	62	56	52	60	55	51	59	55	51	50			50																
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	47	46			46																
10	66	55	49	45	65	55	49	45	54	48	44	53	48	44	52	48	44	43			43																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	62045
5°	63025
10°	64929
15°	67305
20°	68046
25°	64371
30°	57661
35°	46371
40°	31838
45°	18645
50°	10772
55°	6891
60°	4122
65°	1946
70°	1202
75°	1271
80°	947
85°	943

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 18645 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.1	6.7
10°-20°	334.2	20.3
20°-30°	485.3	29.5
30°-40°	425.5	25.9
40°-50°	196.6	12.0
50°-60°	66.9	4.1
60°-70°	17.0	1.0
70°-80°	6.1	0.4
80°-90°	1.6	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°	929.6	56.6
0°-40°	1355.1	82.5
0°-60°	1618.5	98.5
0°-90°	1643.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1643.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1132	
5°	1145	110
15°	1186	334
25°	1064	485
35°	693	426
45°	240	197
55°	72	67
65°	15	17
75°	6	6
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1131.8
2.5°	1136.3
5°	1145.3
7.5°	1157.4
10°	1166.4
12.5°	1178.4
15°	1185.9
17.5°	1184.4
20°	1166.4
22.5°	1124.3
25°	1064.2
27.5°	996.5
30°	910.9
32.5°	808.7
35°	692.9
37.5°	566.7
40°	444.9
42.5°	332.2
45°	240.5
47.5°	174.4
50°	126.3
52.5°	93.2
55°	72.1
57.5°	54.1
60°	37.6
62.5°	22.5
65°	15.0
67.5°	9.0
70°	7.5
72.5°	7.5
75°	6.0
77.5°	4.5
80°	3.0
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)