

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: P641286

Luminaire Tested: ML5612LSVWFL7597FS1E - 592W - 900LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641286
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-73)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSVWFL7597FS1E - 592W - 900LM - 2700K
Description: ML56 RR, 75D TIR OPTIC, 5" WHITE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

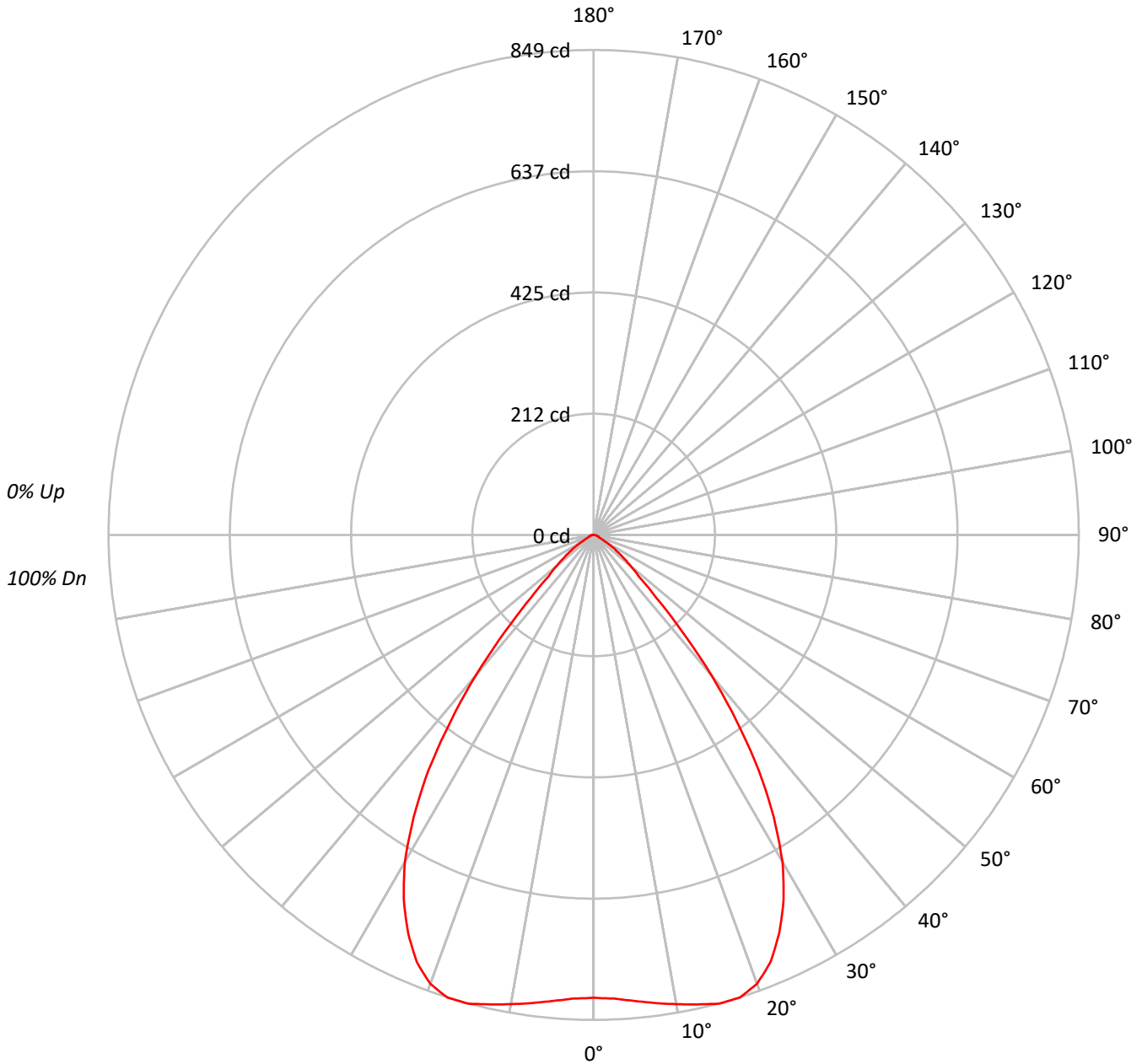
Lumens per Lamp: N/A
Luminaire Lumens: 1176.2 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.09
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 13.3
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				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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	113	110	107	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92	92	92	92
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	87	85	84	84	84	84
3	100	93	87	83	98	91	86	82	89	84	81	86	82	79	84	81	78	76	76	76	76
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70	70	70	70
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64	64	64	64
6	83	73	66	62	82	72	66	61	71	65	61	69	64	61	68	64	60	58	58	58	58
7	78	68	61	57	77	67	61	56	66	60	56	65	60	56	64	59	55	54	54	54	54
8	74	63	57	52	73	63	56	52	62	56	52	61	55	51	59	55	51	50	50	50	50
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	48	46	46	46	46
10	66	55	49	45	65	55	49	45	54	48	44	53	48	44	52	48	44	43	43	43	43

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	63958
5°	64892
10°	66868
15°	69418
20°	70255
25°	66955
30°	60234
35°	48657
40°	33038
45°	17159
50°	10451
55°	6909
60°	3615
65°	2036
70°	2008
75°	1983
80°	2000
85°	1993

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 17159 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.7	6.7
10°-20°	239.3	20.3
20°-30°	350.1	29.8
30°-40°	308.8	26.3
40°-50°	131.3	11.2
50°-60°	45.6	3.9
60°-70°	13.0	1.1
70°-80°	6.9	0.6
80°-90°	2.4	0.2
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°	668.1	56.8
0°-40°	976.9	83.1
0°-60°	1153.8	98.1
0°-90°	1176.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1176.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	810	
5°	819	79
15°	849	239
25°	769	350
35°	505	309
45°	154	131
55°	50	46
65°	11	13
75°	6	7
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	810.2
2.5°	812.4
5°	818.9
7.5°	826.5
10°	834.2
12.5°	841.8
15°	849.4
17.5°	849.4
20°	836.3
22.5°	809.1
25°	768.7
27.5°	719.7
30°	660.8
32.5°	586.6
35°	504.9
37.5°	411.1
40°	320.6
42.5°	227.9
45°	153.7
47.5°	106.9
50°	85.1
52.5°	65.4
55°	50.2
57.5°	36.0
60°	22.9
62.5°	16.4
65°	10.9
67.5°	9.8
70°	8.7
72.5°	7.6
75°	6.5
77.5°	5.5
80°	4.4
82.5°	3.3
85°	2.2
87.5°	1.1
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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