

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: P641297

Luminaire Tested: ML5612LSVWFL7597FS1E - 593BB - 600LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641297
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-75)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSVWFL7597FS1E - 593BB - 600LM - 3000K
Description: ML56 RR, 75D TIR OPTIC, 5" BLACK BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 898.3 lumens
Efficiency: N/A
Efficacy: 87.2 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

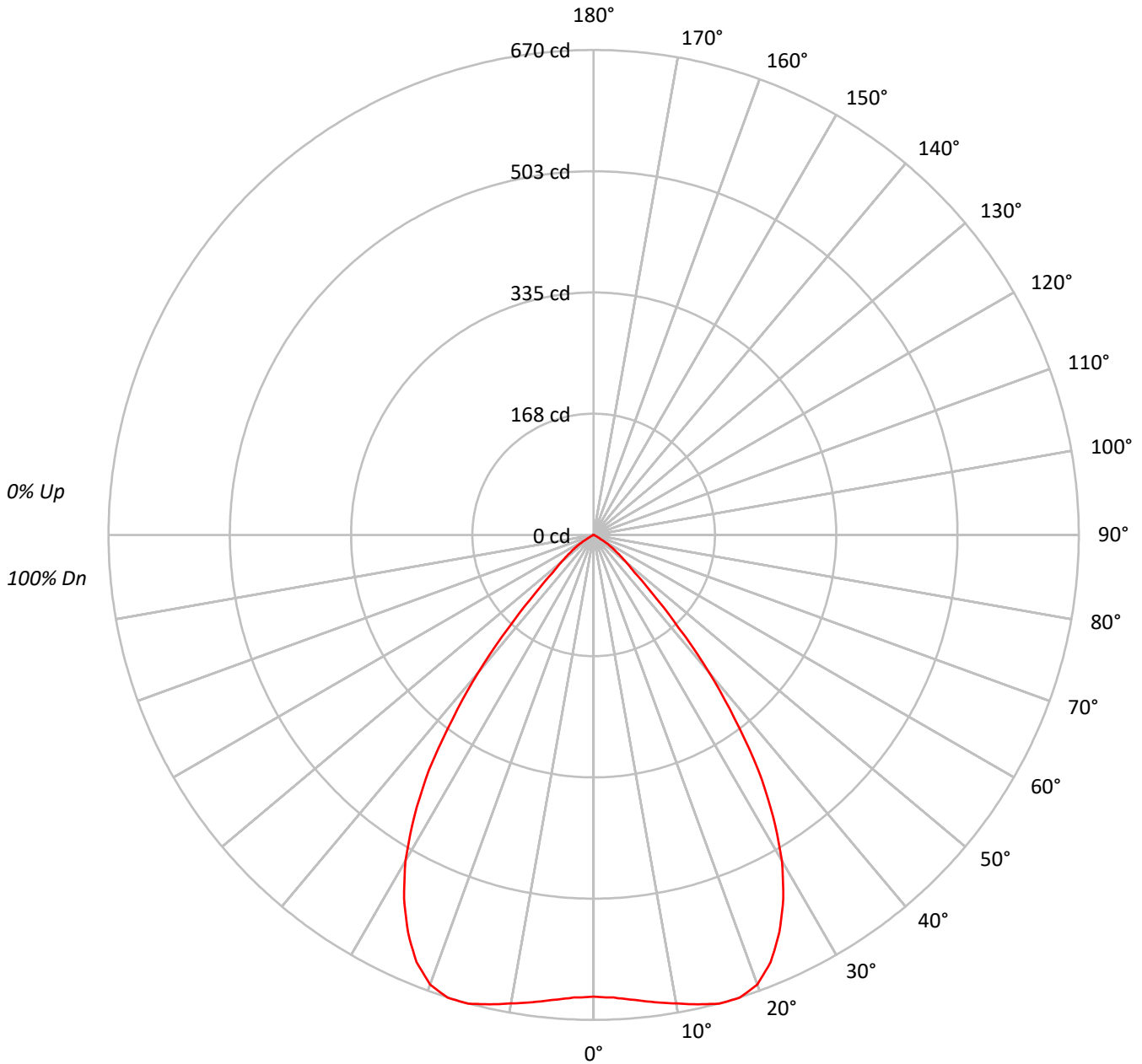
Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P641297

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 593BB - 600LM - 3000K

Luminous Intensity Polar Plot





TEST NUMBER: P641297

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 593BB - 600LM - 3000K

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	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92			92																
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86	85			85																
3	101	94	88	84	99	92	87	83	90	85	82	87	83	81	85	82	79	78			78																
4	95	87	80	76	93	85	80	75	83	78	74	81	77	74	79	76	73	71			71																
5	89	80	74	69	88	79	73	69	77	72	68	76	71	67	74	70	67	65			65																
6	84	74	68	63	83	74	67	63	72	66	62	70	66	62	69	65	61	60			60																
7	79	69	63	58	78	68	62	58	67	62	57	66	61	57	65	60	57	55			55																
8	75	64	58	53	74	64	58	53	63	57	53	62	57	53	61	56	53	51			51																
9	71	60	54	49	70	60	54	49	59	53	49	58	53	49	57	52	49	47			47																
10	67	56	50	46	66	56	50	46	55	50	46	54	49	46	54	49	45	44			44																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	50364
5°	51111
10°	52688
15°	54789
20°	55512
25°	52827
30°	47391
35°	38210
40°	25618
45°	12805
50°	7197
55°	4335
60°	1516
65°	168
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12805 cd/sqm



TEST NUMBER: P641297

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 593BB - 600LM - 3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.0	6.9
10°-20°	188.9	21.0
20°-30°	276.1	30.7
30°-40°	241.8	26.9
40°-50°	98.2	10.9
50°-60°	28.6	3.2
60°-70°	2.7	0.3
70°-80°	0.0	0.0
80°-90°	0.0	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°	527.0	58.7
0°-40°	768.8	85.6
0°-60°	895.7	99.7
0°-90°	898.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	898.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	638	
5°	645	62
15°	670	189
25°	606	276
35°	396	242
45°	115	98
55°	32	29
65°	1	3
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P641297

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 593BB - 600LM - 3000K

CANDELA DISTRIBUTION (FULL):

	0°
0°	638.0
2.5°	639.8
5°	645.0
7.5°	651.2
10°	657.3
12.5°	664.3
15°	670.4
17.5°	670.4
20°	660.8
22.5°	638.9
25°	606.5
27.5°	567.1
30°	519.9
32.5°	461.2
35°	396.5
37.5°	319.4
40°	248.6
42.5°	173.3
45°	114.7
47.5°	76.1
50°	58.6
52.5°	43.8
55°	31.5
57.5°	20.1
60°	9.6
62.5°	5.3
65°	0.9
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
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

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



— 0°-180°

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)