

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: P641820

Luminaire Tested: ML5612LSVWFL97FS1E - 693BB - 1200LM - 5000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641820
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-110)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSVWFL97FS1E - 693BB - 1200LM - 5000K
Description: ML56 RR, MILKY OPTIC, 6" BLACK BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

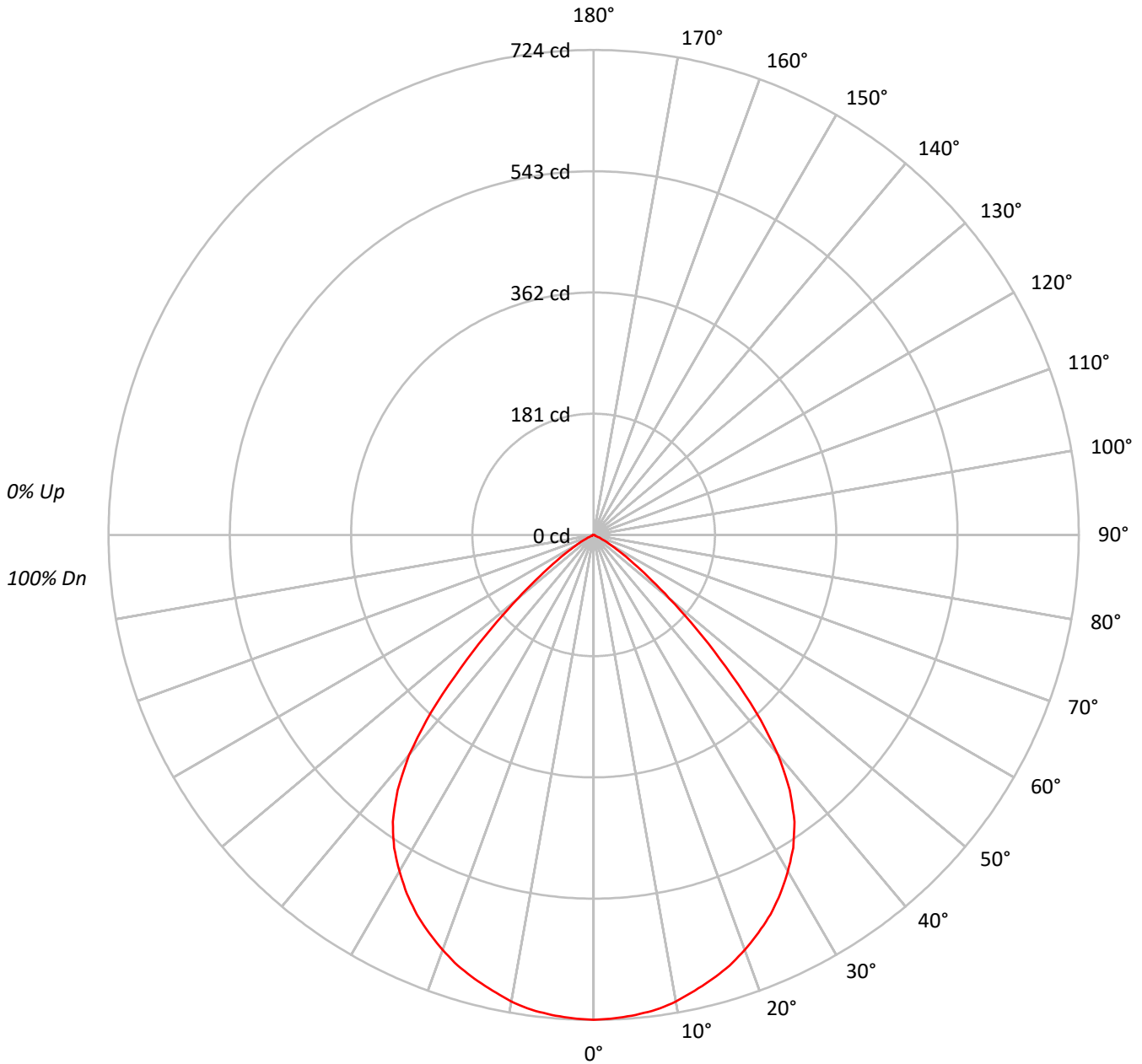
Lumens per Lamp: N/A
Luminaire Lumens: 1164.3 lumens
Efficiency: N/A
Efficacy: 70.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.21
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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



TEST NUMBER: P641820
CATALOG NUMBER: ML5612LSVWFL97FS1E - 693BB - 1200LM - 5000K

Luminous Intensity Polar Plot





TEST NUMBER: P641820

CATALOG NUMBER: ML5612LSVWFL97FS1E - 693BB - 1200LM - 5000K

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																			
1	112	109	106	104	110	107	105	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	86	84	83																			
3	99	91	85	81	97	90	84	80	87	82	79	84	81	77	82	79	76	74																			
4	92	83	77	72	90	82	76	71	80	75	70	78	73	70	76	72	69	67																			
5	86	77	70	64	85	76	69	64	74	68	63	72	67	63	70	66	62	61																			
6	81	70	63	58	79	70	63	58	68	62	57	66	61	57	65	60	57	55																			
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	50																			
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46																			
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	43	42																			
10	63	52	45	41	62	51	45	40	50	44	40	50	44	40	49	44	40	39																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	39684
5°	39588
10°	39378
15°	38950
20°	38463
25°	37793
30°	36696
35°	34974
40°	30629
45°	21653
50°	12554
55°	6461
60°	2960
65°	973
70°	240
75°	318
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 21653 cd/sqm



TEST NUMBER: P641820

CATALOG NUMBER: ML5612LSVWFL97FS1E - 693BB - 1200LM - 5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.3	5.9
10°-20°	193.6	16.6
20°-30°	287.2	24.7
30°-40°	321.9	27.6
40°-50°	216.3	18.6
50°-60°	66.0	5.7
60°-70°	9.7	0.8
70°-80°	1.4	0.1
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°	549.0	47.2
0°-40°	870.9	74.8
0°-60°	1153.3	99.0
0°-90°	1164.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1164.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	724	
5°	719	68
15°	686	194
25°	625	287
35°	523	322
45°	279	216
55°	68	66
65°	8	10
75°	2	1
85°	0	0
90°	0	



TEST NUMBER: P641820

CATALOG NUMBER: ML5612LSVWFL97FS1E - 693BB - 1200LM - 5000K

CANDELA DISTRIBUTION (FULL):

0°	
0°	723.9
2.5°	722.4
5°	719.4
7.5°	714.9
10°	707.4
12.5°	696.9
15°	686.3
17.5°	674.3
20°	659.3
22.5°	642.8
25°	624.8
27.5°	603.7
30°	579.7
32.5°	554.2
35°	522.6
37.5°	480.6
40°	428.0
42.5°	358.9
45°	279.3
47.5°	207.3
50°	147.2
52.5°	100.6
55°	67.6
57.5°	43.6
60°	27.0
62.5°	15.0
65°	7.5
67.5°	3.0
70°	1.5
72.5°	1.5
75°	1.5
77.5°	1.5
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)