

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: P641636

Luminaire Tested: ML5612LSVWFL97FS1E - 593BB - 1200LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641636
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-98)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSVWFL97FS1E - 593BB - 1200LM - 2700K
Description: ML56 RR, MILKY OPTIC, 5" BLACK BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

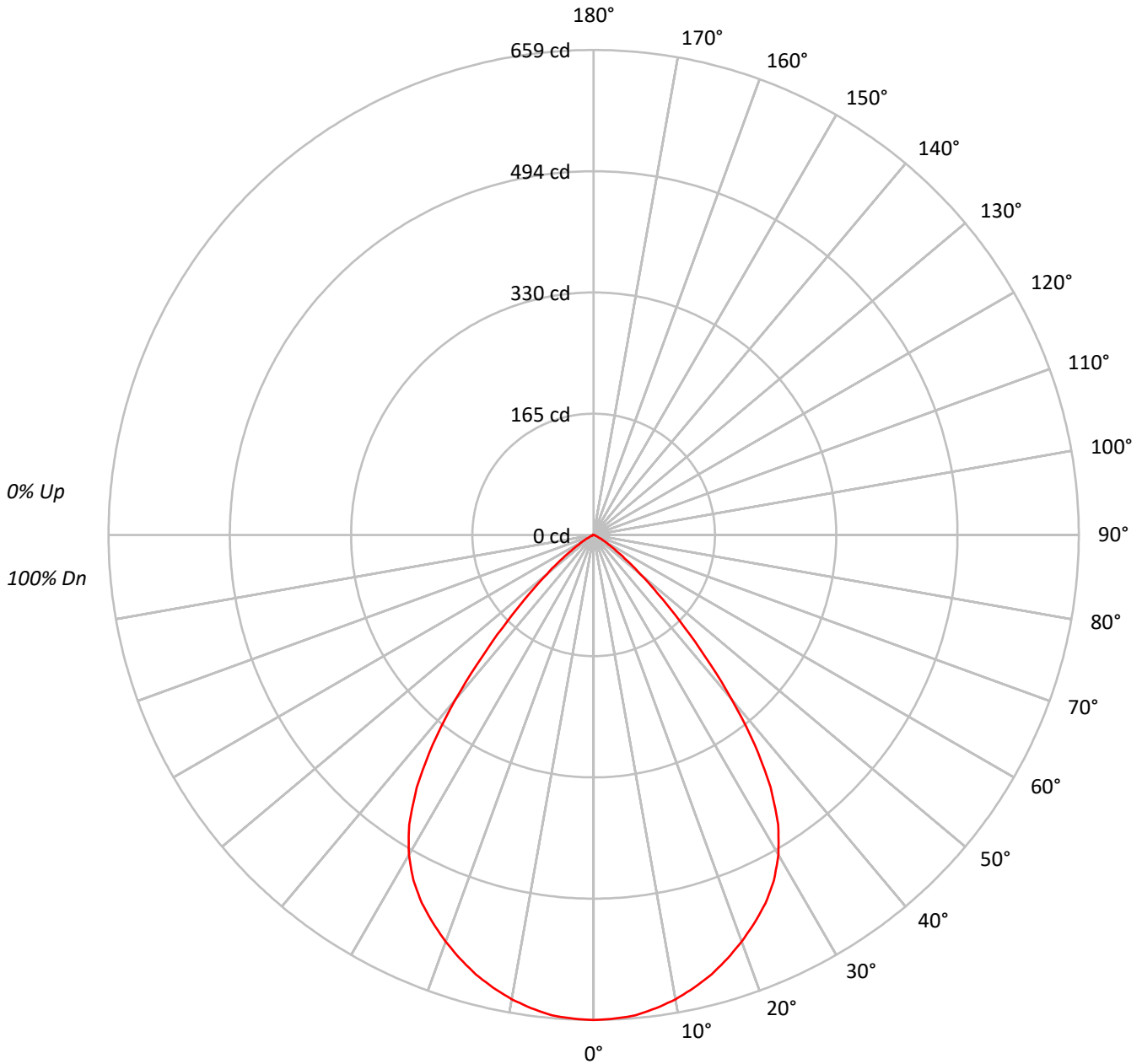
Lumens per Lamp: N/A
Luminaire Lumens: 919.9 lumens
Efficiency: N/A
Efficacy: 55.7 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.11
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 16.5
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				
1	113	110	107	104	110	108	105	103	103	101	100	100	98	97	96	95	94	92				
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	84				
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	81	78	76				
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69				
5	88	79	72	67	86	78	71	67	76	70	66	74	69	65	72	68	65	63				
6	83	73	66	61	81	72	65	61	70	65	60	69	64	60	67	63	59	58				
7	78	67	60	56	76	67	60	56	65	59	55	64	59	55	63	58	55	53				
8	73	63	56	51	72	62	56	51	61	55	51	60	54	51	59	54	50	49				
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°	36137
5°	36061
10°	35665
15°	35091
20°	34297
25°	33401
30°	31777
35°	28027
40°	20896
45°	12800
50°	7096
55°	3536
60°	1590
65°	519
70°	208
75°	275
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12800 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.1	6.7
10°-20°	174.0	18.9
20°-30°	253.2	27.5
30°-40°	255.2	27.7
40°-50°	132.3	14.4
50°-60°	36.8	4.0
60°-70°	5.5	0.6
70°-80°	0.9	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°	489.2	53.2
0°-40°	744.5	80.9
0°-60°	913.5	99.3
0°-90°	919.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	919.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	659	
5°	655	62
15°	618	174
25°	552	253
35°	419	255
45°	165	132
55°	37	37
65°	4	5
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	659.2
2.5°	657.9
5°	655.3
7.5°	648.7
10°	640.7
12.5°	630.2
15°	618.3
17.5°	603.7
20°	587.9
22.5°	570.7
25°	552.2
27.5°	529.8
30°	502.0
32.5°	466.4
35°	418.8
37.5°	359.3
40°	292.0
42.5°	223.3
45°	165.1
47.5°	118.9
50°	83.2
52.5°	56.8
55°	37.0
57.5°	23.8
60°	14.5
62.5°	7.9
65°	4.0
67.5°	2.6
70°	1.3
72.5°	1.3
75°	1.3
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

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— 0°-180°

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