

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: P641717

Luminaire Tested: ML5612LSVWFL97FS1E - 594TBZB - 600LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641717
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-103)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSVWFL97FS1E - 594TBZB - 600LM - 3000K
Description: ML56 RR, MILKY OPTIC, 5" TUSCON BRONZE GIMBAL TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

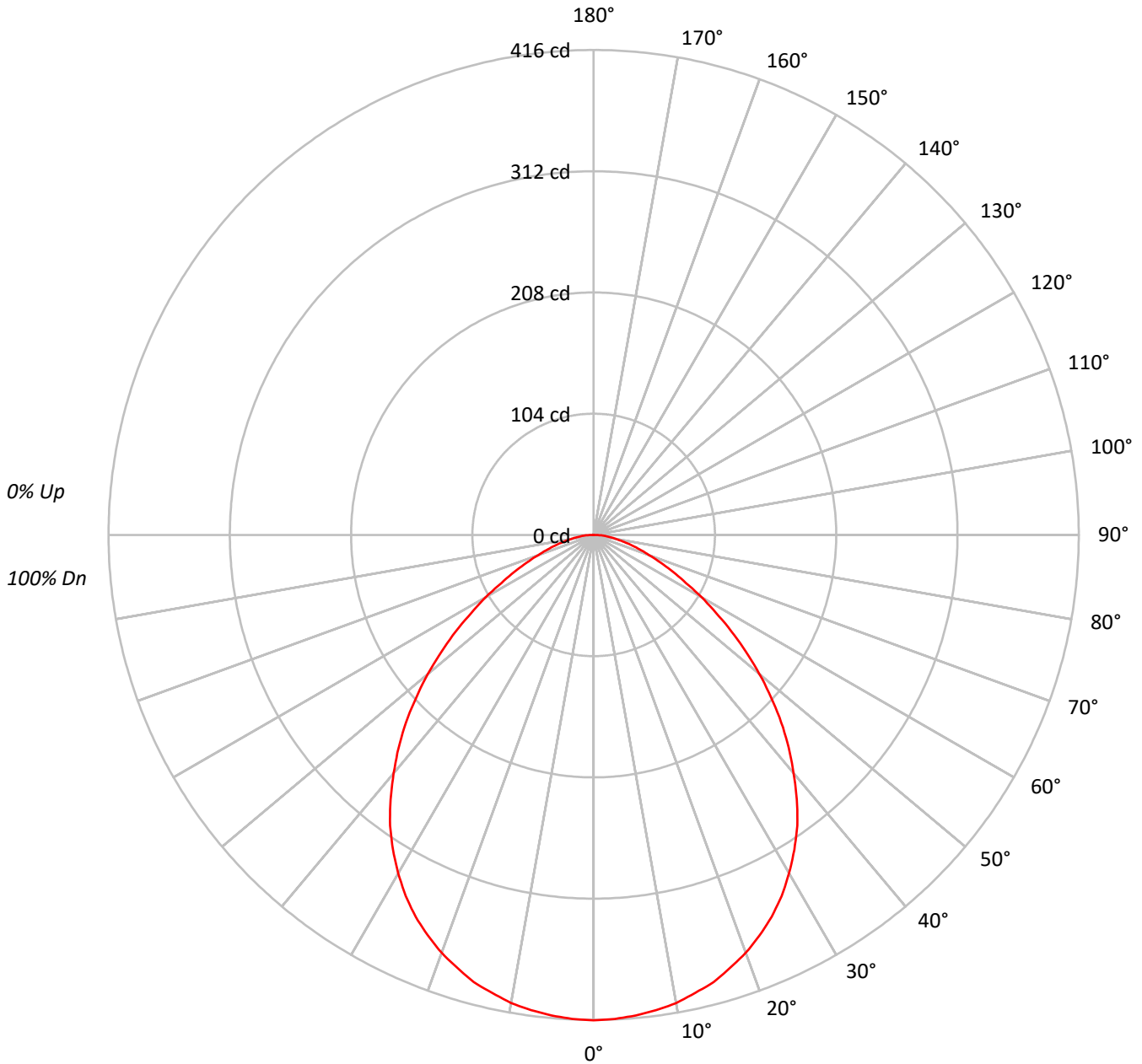
Lumens per Lamp: N/A
Luminaire Lumens: 932.4 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.27
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 10.3
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																			
1	110	106	102	99	107	104	100	97	100	97	94	96	93	91	92	90	89	87																			
2	101	94	88	83	99	92	87	82	89	84	80	85	82	78	82	79	76	74																			
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64																			
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56																			
5	80	68	59	53	77	67	59	53	64	58	52	63	57	52	61	55	51	49																			
6	74	61	53	47	72	60	53	47	59	52	46	57	51	46	55	50	46	44																			
7	69	56	48	42	67	55	47	42	54	47	41	52	46	41	51	45	41	39																			
8	64	51	43	38	63	51	43	38	49	42	37	48	42	37	47	41	37	35																			
9	60	47	39	34	59	47	39	34	46	39	34	44	38	34	43	38	34	32																			
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	40	35	31	29																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	32871
5°	32791
10°	32681
15°	32461
20°	32040
25°	31470
30°	30545
35°	29344
40°	27494
45°	25398
50°	22781
55°	19874
60°	16846
65°	14047
70°	11702
75°	10126
80°	8728
85°	8695

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 25398 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.3	4.2
10°-20°	111.8	12.0
20°-30°	166.1	17.8
30°-40°	189.5	20.3
40°-50°	174.9	18.8
50°-60°	129.2	13.9
60°-70°	75.4	8.1
70°-80°	35.5	3.8
80°-90°	10.7	1.1
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°	317.2	34.0
0°-40°	506.7	54.3
0°-60°	810.8	87.0
0°-90°	932.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	932.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	416	
5°	414	39
15°	397	112
25°	361	166
35°	304	189
45°	228	175
55°	144	129
65°	75	75
75°	33	35
85°	10	11
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	416.4
2.5°	415.6
5°	413.8
7.5°	411.2
10°	407.7
12.5°	402.4
15°	397.2
17.5°	389.3
20°	381.4
22.5°	371.8
25°	361.3
27.5°	349.1
30°	335.1
32.5°	320.2
35°	304.5
37.5°	286.1
40°	266.8
42.5°	247.6
45°	227.5
47.5°	206.5
50°	185.5
52.5°	164.5
55°	144.4
57.5°	124.2
60°	106.7
62.5°	89.2
65°	75.2
67.5°	62.1
70°	50.7
72.5°	41.1
75°	33.2
77.5°	25.4
80°	19.2
82.5°	14.0
85°	9.6
87.5°	6.1
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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(END OF REPORT)