

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: P640628

Luminaire Tested: ML5612LSFL4097FS1E - 593SNB - 900LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640628
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-30)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSFL4097FS1E - 593SNB - 900LM - 3500K
Description: ML56 RR, 40D TIR OPTIC, 5" SATIN NICKLE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

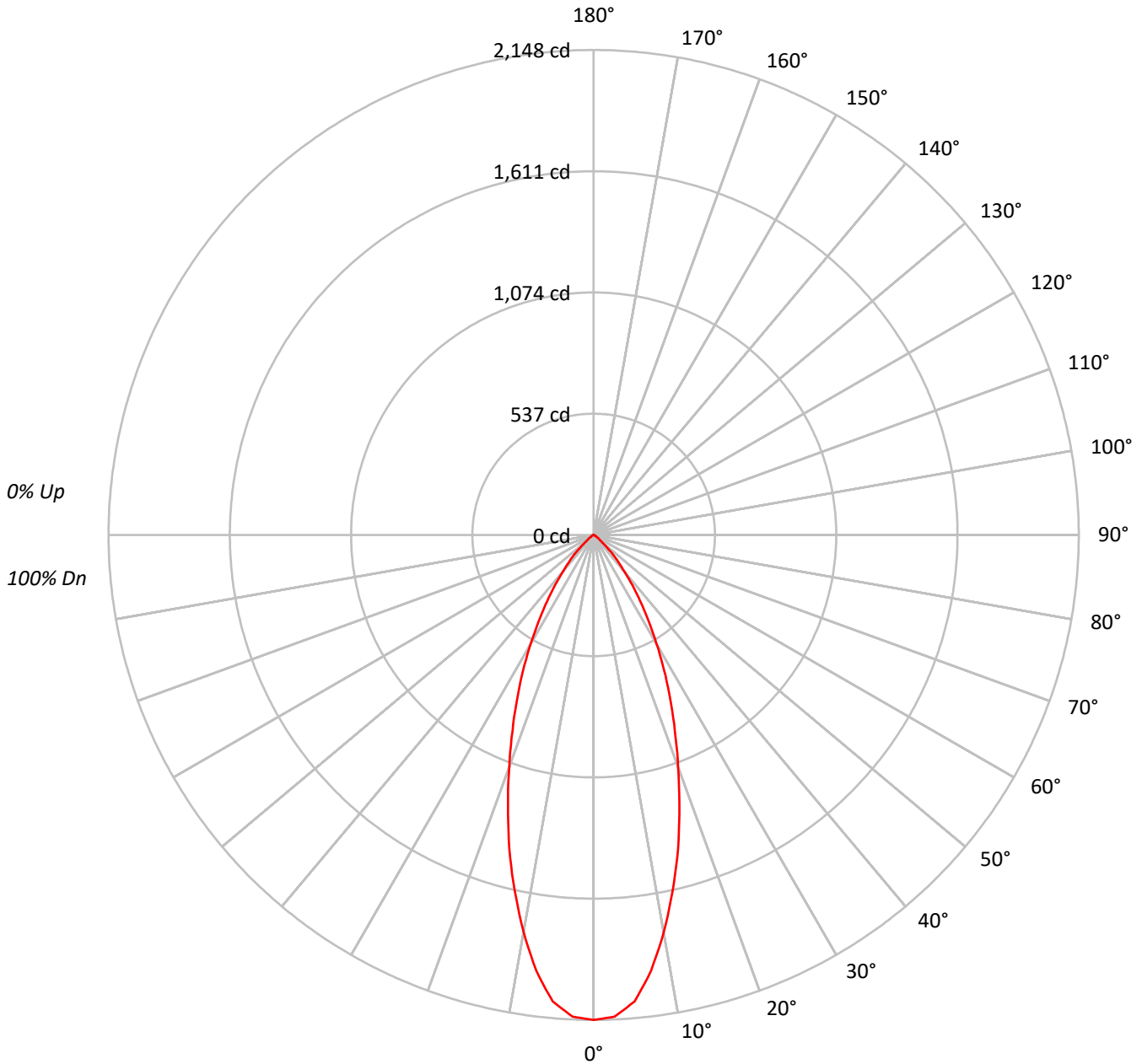
Lumens per Lamp: N/A
Luminaire Lumens: 1295.8 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Spacing Criteria (0/90/45): 0.64 / 0.64 / 0.69
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 13.3
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									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	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	114	111	109	106	111	109	107	105	105	103	102	101	100	99	98	97	96	94																																				
2	108	104	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88																																				
3	103	97	92	88	101	96	91	88	93	89	86	91	87	85	88	86	84	82																																				
4	98	91	86	82	96	90	85	81	88	83	80	86	82	79	84	81	78	77																																				
5	93	85	80	76	92	85	79	75	83	78	75	81	77	74	80	76	73	72																																				
6	89	81	75	71	88	80	74	70	78	74	70	77	73	69	76	72	69	68																																				
7	85	76	70	66	84	75	70	66	74	69	66	73	69	65	72	68	65	64																																				
8	81	72	66	62	80	71	66	62	70	65	62	69	65	62	68	64	61	60																																				
9	78	68	63	59	76	68	62	59	67	62	59	66	62	58	65	61	58	57																																				
10	74	65	59	56	73	65	59	56	64	59	55	63	59	55	62	58	55	54																																				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	169589
5°	164388
10°	143196
15°	117832
20°	91786
25°	69873
30°	50745
35°	34654
40°	21733
45°	12872
50°	4814
55°	2849
60°	1642
65°	654
70°	277
75°	366
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12872 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.4	14.5
10°-20°	397.9	30.7
20°-30°	367.9	28.4
30°-40°	227.7	17.6
40°-50°	88.8	6.9
50°-60°	19.8	1.5
60°-70°	4.5	0.4
70°-80°	0.8	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°	954.2	73.6
0°-40°	1181.8	91.2
0°-60°	1290.4	99.6
0°-90°	1295.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1295.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2148	
5°	2074	188
15°	1442	398
25°	802	368
35°	360	228
45°	115	89
55°	21	20
65°	4	5
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2148.3
2.5°	2135.6
5°	2074.5
7.5°	1946.6
10°	1786.4
12.5°	1614.7
15°	1441.8
17.5°	1260.9
20°	1092.6
22.5°	939.3
25°	802.2
27.5°	675.4
30°	556.7
32.5°	451.8
35°	359.6
37.5°	281.2
40°	210.9
42.5°	160.2
45°	115.3
47.5°	68.0
50°	39.2
52.5°	28.8
55°	20.7
57.5°	15.0
60°	10.4
62.5°	8.1
65°	3.5
67.5°	1.2
70°	1.2
72.5°	1.2
75°	1.2
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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(END OF REPORT)