

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: P640648

Luminaire Tested: ML5612LSFL4097FS1E - 593WB - 1200LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640648
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-28)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSFL4097FS1E - 593WB - 1200LM - 3500K
Description: ML56 RR, 40D TIR OPTIC, 5" WHITE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

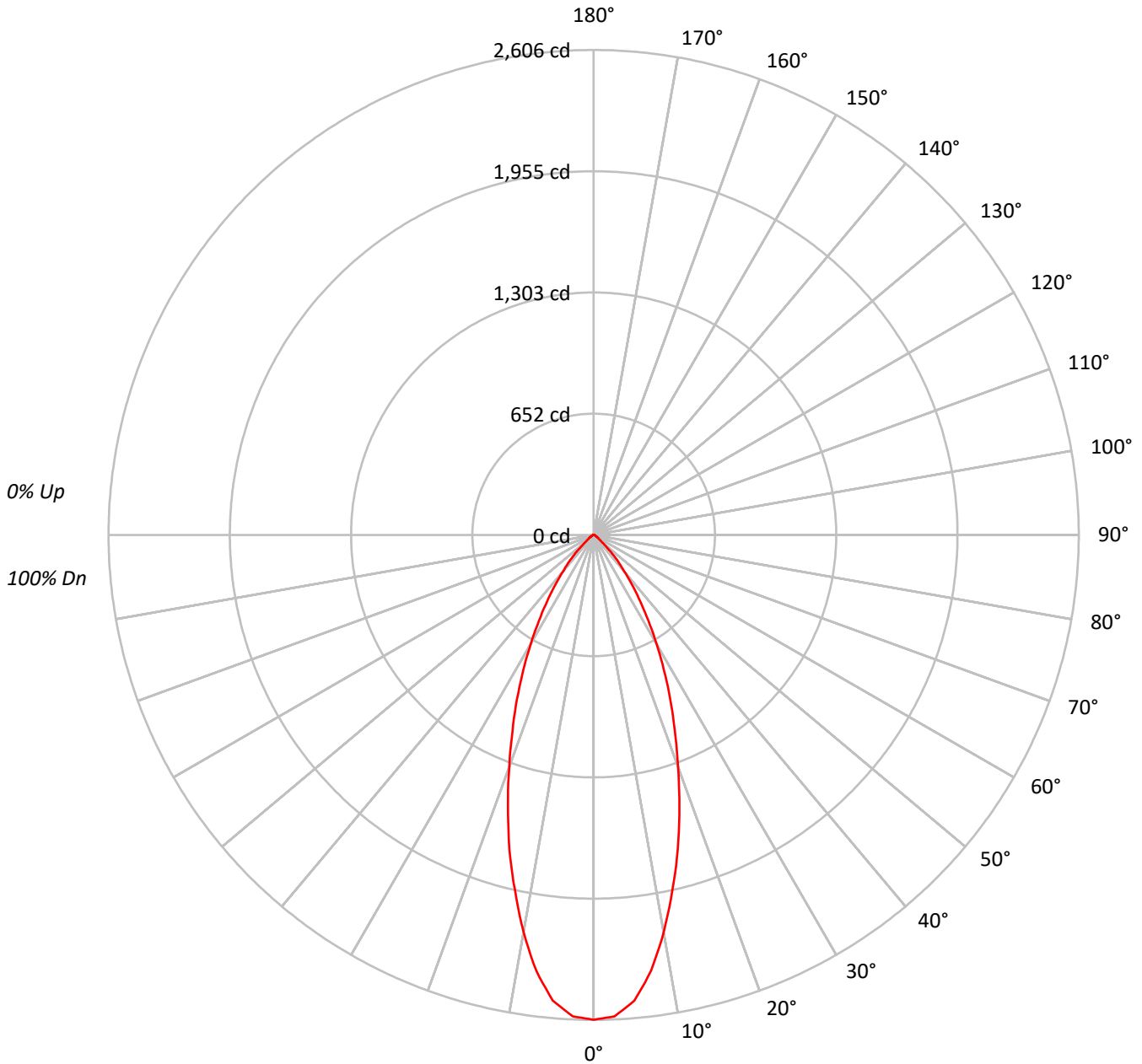
Lumens per Lamp: N/A
Luminaire Lumens: 1585.3 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Spacing Criteria (0/90/45): 0.64 / 0.64 / 0.69
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 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



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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	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94																			
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87																			
3	103	96	92	88	101	95	91	87	92	89	86	90	87	84	88	85	83	81																			
4	98	90	85	81	96	89	84	80	87	83	79	85	82	79	83	80	78	76																			
5	93	85	79	75	92	84	79	75	82	78	74	81	77	73	79	76	73	71																			
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67																			
7	85	76	70	66	83	75	69	66	74	69	65	73	68	65	71	67	64	63																			
8	81	72	66	62	80	71	66	62	70	65	61	69	64	61	68	64	61	60																			
9	77	68	62	58	76	67	62	58	66	62	58	66	61	58	65	61	58	56																			
10	74	65	59	55	73	64	59	55	63	58	55	63	58	55	62	58	55	53																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	205688
5°	199065
10°	173736
15°	142799
20°	111259
25°	84846
30°	61446
35°	41959
40°	26175
45°	15585
50°	6165
55°	4033
60°	2858
65°	1831
70°	1616
75°	1708
80°	1909
85°	2536

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15585 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.5	14.4
10°-20°	482.4	30.4
20°-30°	445.8	28.1
30°-40°	275.6	17.4
40°-50°	106.9	6.7
50°-60°	27.4	1.7
60°-70°	10.7	0.7
70°-80°	5.5	0.3
80°-90°	2.5	0.2
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°	1156.7	73.0
0°-40°	1432.3	90.3
0°-60°	1566.6	98.8
0°-90°	1585.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1585.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2606	
5°	2512	228
15°	1747	482
25°	974	446
35°	435	276
45°	140	107
55°	29	27
65°	10	11
75°	6	6
85°	3	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2605.6
2.5°	2588.8
5°	2512.1
7.5°	2362.8
10°	2167.4
12.5°	1955.2
15°	1747.3
17.5°	1531.0
20°	1324.4
22.5°	1138.8
25°	974.1
27.5°	816.4
30°	674.1
32.5°	545.7
35°	435.4
37.5°	341.9
40°	254.0
42.5°	194.0
45°	139.6
47.5°	78.2
50°	50.2
52.5°	37.7
55°	29.3
57.5°	22.3
60°	18.1
62.5°	14.0
65°	9.8
67.5°	7.0
70°	7.0
72.5°	5.6
75°	5.6
77.5°	4.2
80°	4.2
82.5°	2.8
85°	2.8
87.5°	1.4
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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