

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: P640747

Luminaire Tested: ML5612LSFL4097FS1E - 692H - 900LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640747
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-38)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSFL4097FS1E - 692H - 900LM - 3000K
Description: ML56 RR, 40D TIR OPTIC, 6" HAZE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

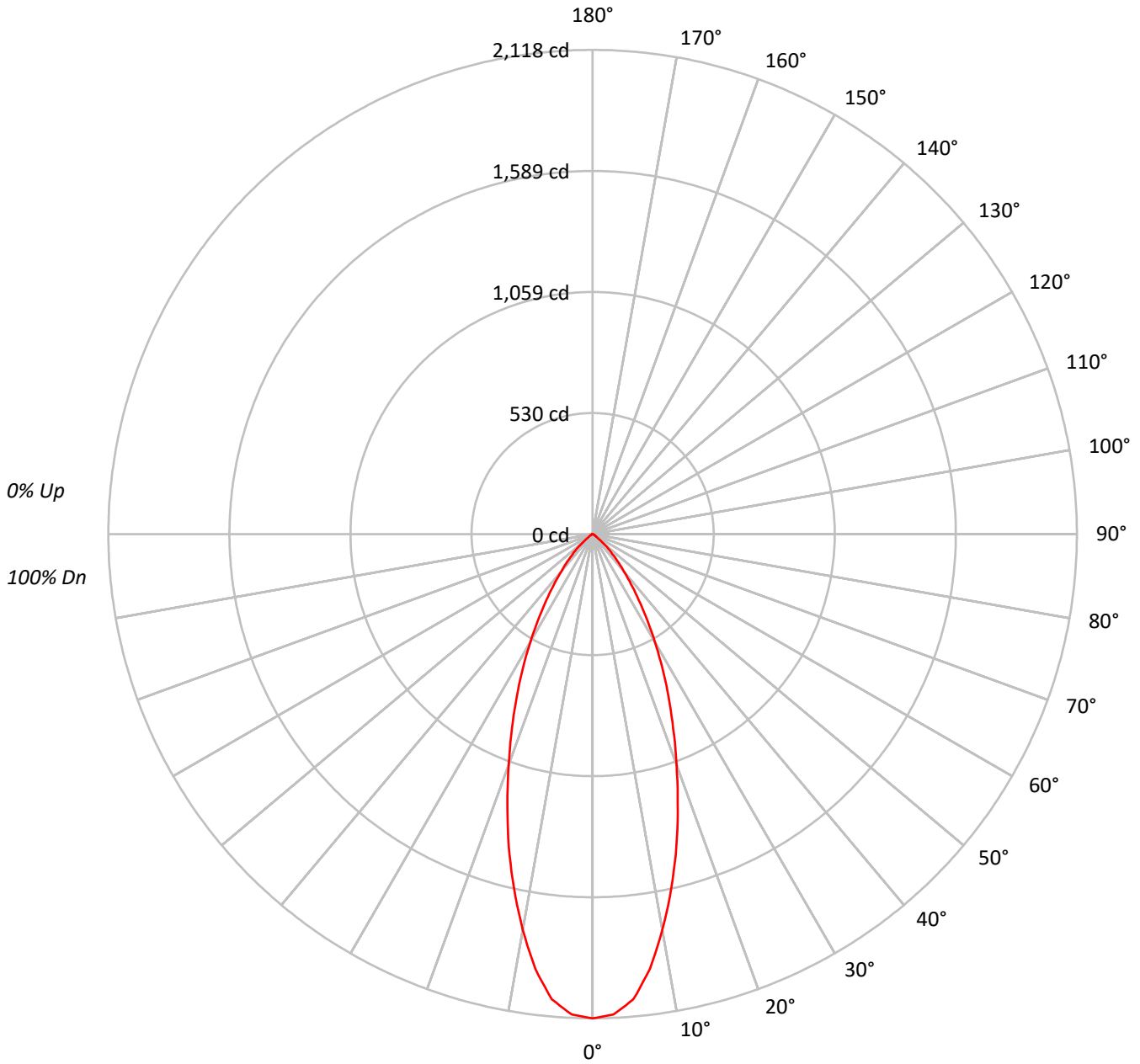
Lumens per Lamp: N/A
Luminaire Lumens: 1281.5 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Spacing Criteria (0/90/45): 0.64 / 0.64 / 0.69
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100
1	114	111	109	106	111	109	107	105	105	103	102	101	100	98	98	97	96	94			94
2	108	104	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88			88
3	103	97	92	88	101	95	91	87	93	89	86	90	87	85	88	86	83	82			82
4	98	91	85	81	96	90	85	81	87	83	80	86	82	79	84	81	78	77			77
5	93	85	80	75	92	84	79	75	83	78	74	81	77	74	79	76	73	72			72
6	89	80	75	70	87	80	74	70	78	73	70	77	72	69	75	72	69	67			67
7	85	76	70	66	83	75	70	66	74	69	65	73	68	65	72	68	65	63			63
8	81	72	66	62	80	71	66	62	70	65	62	69	65	61	68	64	61	60			60
9	77	68	62	59	76	68	62	58	67	62	58	66	61	58	65	61	58	57			57
10	74	65	59	55	73	64	59	55	64	59	55	63	58	55	62	58	55	54			54

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	116126
5°	112431
10°	97861
15°	80341
20°	62545
25°	47464
30°	34391
35°	23517
40°	15186
45°	9311
50°	4691
55°	1931
60°	1228
65°	441
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9311 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.6	14.5
10°-20°	390.9	30.5
20°-30°	359.9	28.1
30°-40°	222.9	17.4
40°-50°	96.4	7.5
50°-60°	21.7	1.7
60°-70°	4.1	0.3
70°-80°	0.0	0.0
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°	936.4	73.1
0°-40°	1159.3	90.5
0°-60°	1277.4	99.7
0°-90°	1281.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1281.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2118	
5°	2043	186
15°	1416	391
25°	785	360
35°	351	223
45°	120	96
55°	20	22
65°	3	4
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2118.3
2.5°	2103.7
5°	2043.1
7.5°	1918.5
10°	1758.0
12.5°	1588.5
15°	1415.6
17.5°	1238.2
20°	1072.1
22.5°	920.5
25°	784.7
27.5°	659.0
30°	543.3
32.5°	441.2
35°	351.4
37.5°	275.0
40°	212.2
42.5°	163.9
45°	120.1
47.5°	88.7
50°	55.0
52.5°	29.2
55°	20.2
57.5°	15.7
60°	11.2
62.5°	6.7
65°	3.4
67.5°	1.1
70°	0.0
72.5°	0.0
75°	0.0
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)