

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: P640771

Luminaire Tested: ML5612LSFL4097FS1E - 692W - 600LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640771
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-39)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSFL4097FS1E - 692W - 600LM - 2700K
Description: ML56 RR, 40D TIR OPTIC, 6" WHITE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

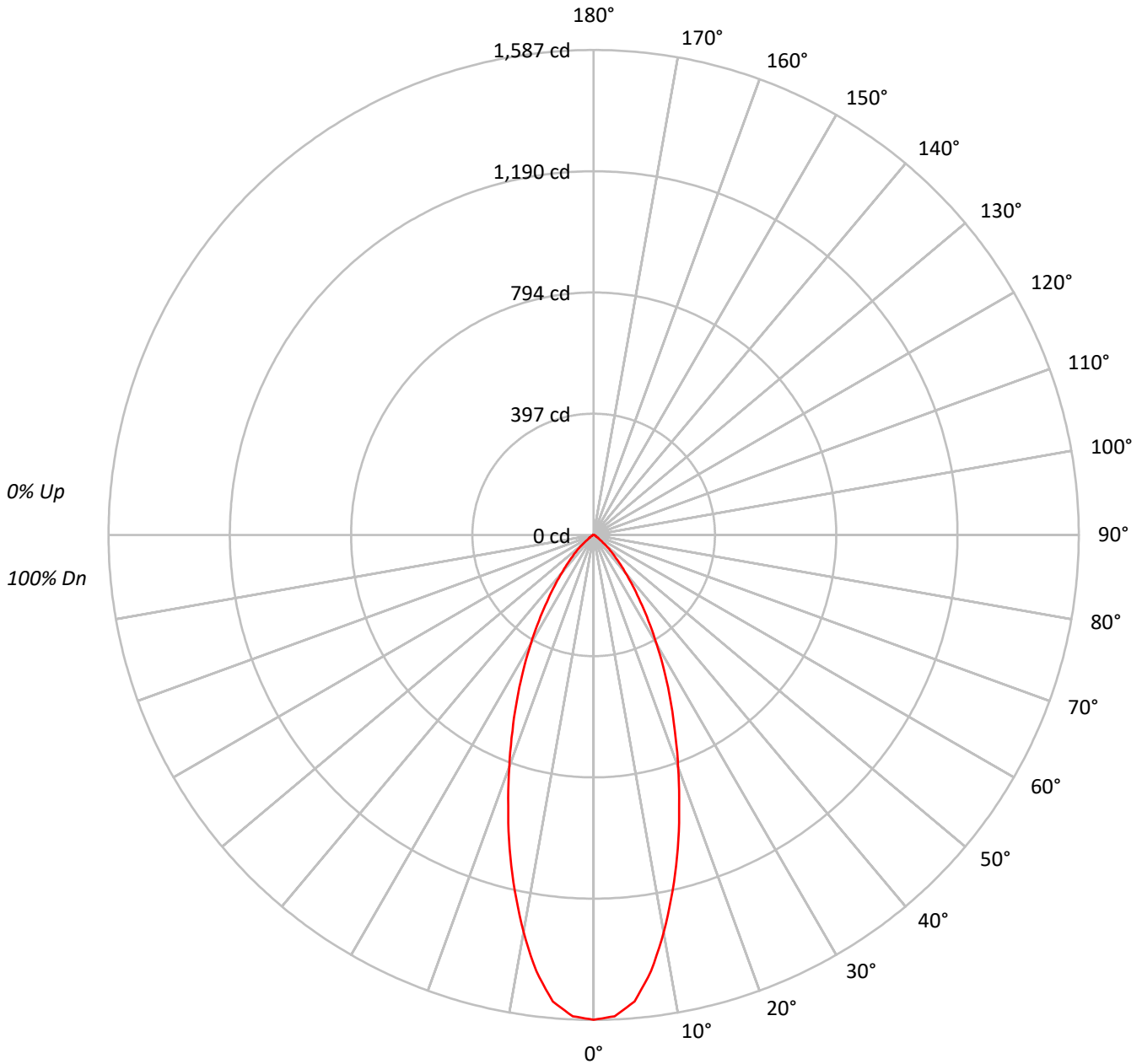
Lumens per Lamp: N/A
Luminaire Lumens: 973.6 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Spacing Criteria (0/90/45): 0.64 / 0.64 / 0.69
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 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				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	108	106	111	109	106	104	105	103	101	101	100	98	98	96	95	94			94
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87			87
3	103	96	92	88	101	95	91	87	92	89	86	90	87	84	88	85	83	81			81
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	78	76			76
5	93	85	79	75	91	84	79	75	82	78	74	81	76	73	79	75	73	71			71
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67			67
7	84	75	70	65	83	75	69	65	73	69	65	72	68	65	71	67	64	63			63
8	81	71	66	62	79	71	65	61	70	65	61	69	64	61	68	64	61	59			59
9	77	68	62	58	76	67	62	58	66	61	58	65	61	58	65	60	57	56			56
10	74	64	59	55	73	64	59	55	63	58	55	62	58	55	62	57	54	53			53

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	86983
5°	84322
10°	73468
15°	60341
20°	47102
25°	35827
30°	25985
35°	17802
40°	11557
45°	7179
50°	3770
55°	1701
60°	1118
65°	662
70°	401
75°	360
80°	537
85°	503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7179 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.2	14.3
10°-20°	293.6	30.2
20°-30°	271.5	27.9
30°-40°	168.8	17.3
40°-50°	74.1	7.6
50°-60°	18.2	1.9
60°-70°	5.3	0.5
70°-80°	2.1	0.2
80°-90°	0.7	0.1
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°	704.4	72.3
0°-40°	873.2	89.7
0°-60°	965.5	99.2
0°-90°	973.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	973.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1587	
5°	1532	139
15°	1063	294
25°	592	272
35°	266	169
45°	93	74
55°	18	18
65°	5	5
75°	2	2
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1586.7
2.5°	1576.5
5°	1532.3
7.5°	1439.6
10°	1319.8
12.5°	1192.3
15°	1063.2
17.5°	929.7
20°	807.4
22.5°	693.5
25°	592.3
27.5°	498.0
30°	410.5
32.5°	333.1
35°	266.0
37.5°	209.1
40°	161.5
42.5°	124.9
45°	92.6
47.5°	68.8
50°	44.2
52.5°	23.8
55°	17.8
57.5°	13.6
60°	10.2
62.5°	7.6
65°	5.1
67.5°	2.5
70°	2.5
72.5°	2.5
75°	1.7
77.5°	1.7
80°	1.7
82.5°	0.8
85°	0.8
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)