

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: P640832

Luminaire Tested: ML5612LSFL4097FS1E - 693WB - 600LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640832
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-40)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSFL4097FS1E - 693WB - 600LM - 3000K
Description: ML56 RR, 40D TIR OPTIC, 6" WHITE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

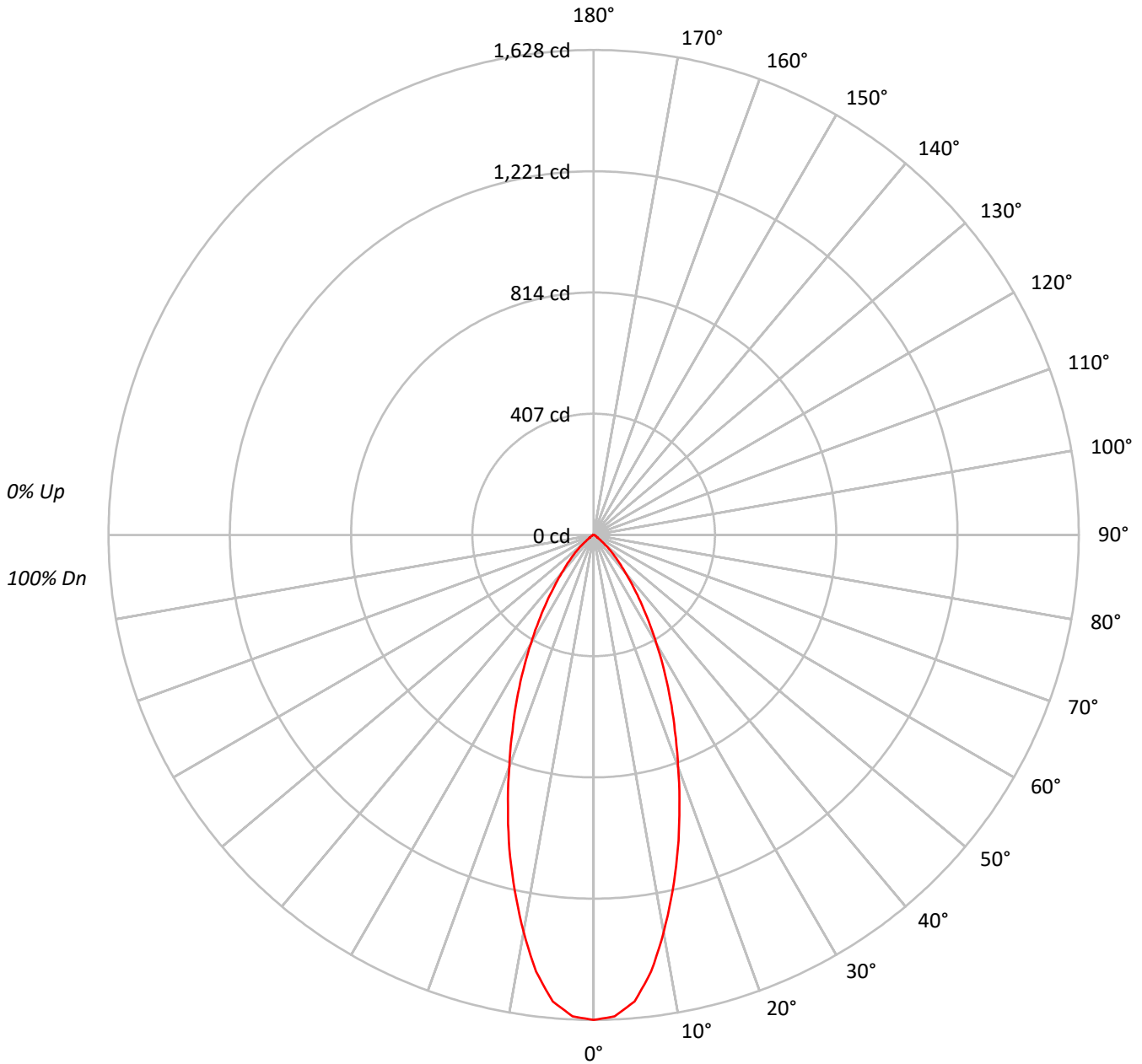
Lumens per Lamp: N/A
Luminaire Lumens: 1000.6 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Spacing Criteria (0/90/45): 0.64 / 0.64 / 0.69
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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	100	100
1	114	111	108	106	111	109	106	104	105	103	101	101	100	98	97	96	95	94	94	94	94
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87	87	87	87
3	103	96	92	88	101	95	91	87	92	89	86	90	87	84	88	85	83	81	81	81	81
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	78	76	76	76	76
5	93	85	79	75	91	84	79	75	82	77	74	80	76	73	79	75	73	71	71	71	71
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67	67	67	67
7	84	75	70	65	83	75	69	65	73	69	65	72	68	65	71	67	64	63	63	63	63
8	81	71	66	62	79	71	65	61	70	65	61	69	64	61	68	64	61	59	59	59	59
9	77	68	62	58	76	67	62	58	66	61	58	65	61	58	65	60	57	56	56	56	56
10	74	64	59	55	73	64	58	55	63	58	55	62	58	55	62	57	54	53	53	53	53

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	89253
5°	86512
10°	75338
15°	61964
20°	48333
25°	36831
30°	26694
35°	18324
40°	11894
45°	7396
50°	3957
55°	1673
60°	1151
65°	675
70°	417
75°	360
80°	537
85°	566

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7396 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.9	14.3
10°-20°	301.6	30.1
20°-30°	278.8	27.9
30°-40°	173.7	17.4
40°-50°	76.4	7.6
50°-60°	18.7	1.9
60°-70°	5.5	0.5
70°-80°	2.2	0.2
80°-90°	1.0	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°	723.3	72.3
0°-40°	896.9	89.6
0°-60°	992.1	99.1
0°-90°	1000.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1000.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1628	
5°	1572	143
15°	1092	302
25°	609	279
35°	274	174
45°	95	76
55°	18	19
65°	5	5
75°	2	2
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1628.1
2.5°	1617.6
5°	1572.1
7.5°	1478.5
10°	1353.4
12.5°	1223.0
15°	1091.8
17.5°	957.1
20°	828.5
22.5°	712.1
25°	608.9
27.5°	510.9
30°	421.7
32.5°	342.9
35°	273.8
37.5°	215.2
40°	166.2
42.5°	128.6
45°	95.4
47.5°	70.9
50°	46.4
52.5°	24.5
55°	17.5
57.5°	14.0
60°	10.5
62.5°	7.9
65°	5.2
67.5°	2.6
70°	2.6
72.5°	2.6
75°	1.7
77.5°	1.7
80°	1.7
82.5°	0.9
85°	0.9
87.5°	0.9
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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