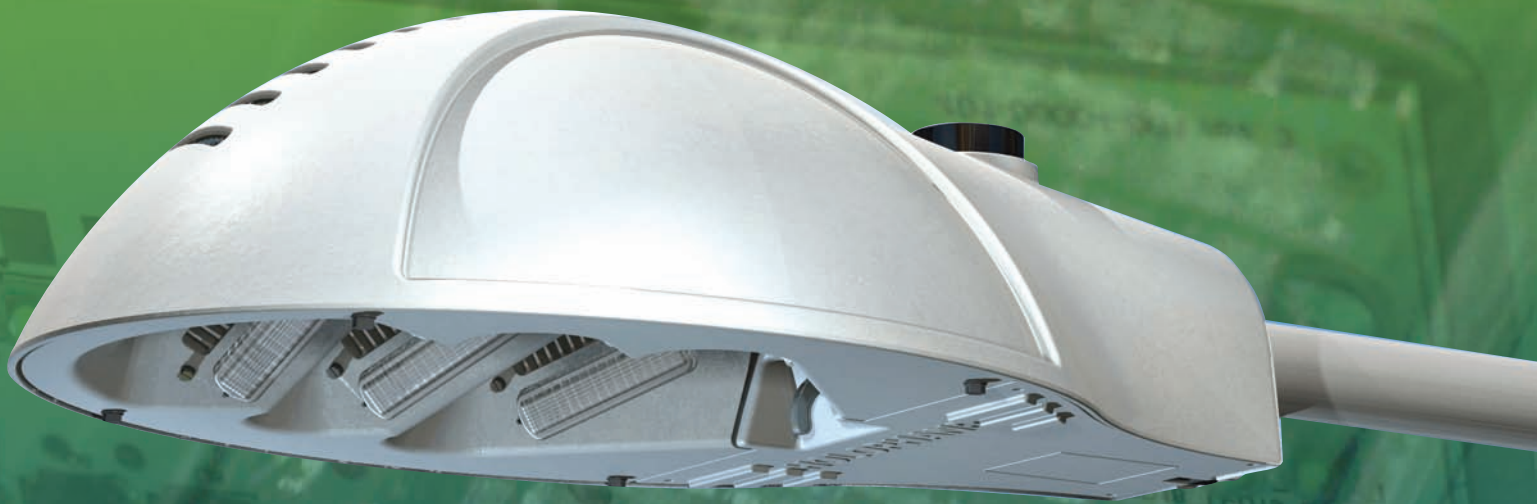


# LEDGEND<sup>®</sup>

ROADWAY AND AREA LED



## Operating Characteristics (L70 Life Expectancy and Lumen Depreciation Tables)





HOLOPHANE HAS MADE MANY ENHANCEMENTS TO THE LEDGEND PRODUCT LINE, INCLUDING HIGHER LUMEN PACKAGES FOR CONVERSION OF HIGH WATTAGE HID TO LED, AS WELL AS AN AREA LIGHTING DISTRIBUTION REQUIRED FOR PARKING LOT APPLICATIONS. THE MULTIPLE LUMEN PACKAGES ALLOW OPTIONS FOR APPLYING THE PRODUCT BASED ON EXPECTED LIFE, LUMENS PER WATT, AND PRICING EXPECTATIONS. INTEGRAL CONTROL OPTIONS HAVE BEEN INCORPORATED INTO THE LEDGEND. THESE INCLUDE THE BI-LEVEL CONTROL AS WELL AS THE CONSTANT LUMEN OUTPUT CONTROL THAT PROVIDE ADDITIONAL ENERGY SAVINGS OPPORTUNITIES FOR OUTDOOR LIGHTING PROJECTS.

## FEATURES AND BENEFITS

- ❑ Permanent prismatic glass optics protect LED's, control light, and reduce glare
- ❑ Optimized maintained thermal management system for maximum performance and life
- ❑ Precise optical control for high application efficacy
- ❑ Multiple lumen packages offer design flexibility replacing 50-310 watt luminaires
- ❑ Environmentally friendly design with zero uplight prevents light pollution
- ❑ Optional dual driver system extends driver life up to 200,000 hours
- ❑ Dimming options reduce energy load
- ❑ Area and roadway lighting distributions

# OPERATING CHARACTERISTICS

(L70 Life Expectancy and Lumen Depreciation Tables)

						LED Life Projection <sup>3</sup>		
Number of LED's	CCT	Drive Current	Minimum Delivered Lumens <sup>1,2</sup>	Wattage	LPW	L70 @ 15°C	L70 @ 25°C	L70 @ 40°C
120	4000K	350mA	9652	129	75	133,000	106,000	83,000
108	4000K	350mA	8778	116	76	138,000	110,000	85,000
96	4000K	350mA	7903	103	77	147,000	117,000	88,000
84	4000K	350mA	7029	91	77	157,000	125,000	92,000
72	4000K	350mA	6049	81	75	172,000	135,000	98,000
60	4000K	350mA	5037	65	77	185,000	146,000	106,000
48	4000K	350mA	4049	52	78	202,000	159,000	115,000
36	4000K	350mA	3060	42	73	217,000	171,000	124,000
120	4000K	525mA	12660	198	64	78,000	65,000	51,000
108	4000K	525mA	11492	178	65	82,000	68,000	53,000
96	4000K	525mA	10324	159	65	87,000	72,000	56,000
84	4000K	525mA	9156	148	62	94,000	78,000	61,000
72	4000K	525mA	7988	120	67	103,000	85,000	65,000
60	4000K	525mA	6736	99	68	114,000	94,000	72,000
48	4000K	525mA	5490	79	69	126,000	104,000	79,000
36	4000K	525mA	4241	62	68	139,000	115,000	87,000
108	4000K	700mA	14320	240	60	59,000	50,000	NA
96	4000K	700mA	13055	213	61	60,000	51,000	NA
84	4000K	700mA	11829	187	63	62,000	53,000	NA
72	4000K	700mA	9780	162	60	72,000	60,000	47,000
60	4000K	700mA	8625	133	65	78,000	65,000	52,000
48	4000K	700mA	6937	107	65	88,000	73,000	58,000
36	4000K	700mA	5248	80	66	93,000	77,000	66,000

1 Minimum lumen values, reference photometric test for delivered lumens for each distribution

2 For 5000K use 1.045 multiplier X 4000 K lumen value

3 Based on LED manufacturer's projected lumen maintenance models and luminaire thermal tests. Not a system warranty.

# LUMEN DEPRECIATION TABLES

LEDgend 120 LED 350 mA	15°C	25°C	40°C
L70 life (hours)	133,000	106,000	83,000
12,500 hours	0.97	0.93	0.89
25,000 hours	0.92	0.88	0.85
50,000 hours	0.87	0.83	0.78
75,000 hours	0.83	0.78	0.72
100,000 hours	0.77	0.72	0.67
125,000 hours	0.72	0.66	

LEDgend 108 LED 350 mA	15°C	25°C	40°C
L70 life (hours)	138,000	110,000	85,000
12,500 hours	0.95	0.92	0.89
25,000 hours	0.93	0.89	0.85
50,000 hours	0.89	0.84	0.79
75,000 hours	0.83	0.78	0.72
100,000 hours	0.78	0.72	
125,000 hours	0.72		

LEDgend 096 LED 350 mA	15°C	25°C	40°C
L70 life (hours)	147,000	117,000	88,000
12,500 hours	0.96	0.93	0.90
25,000 hours	0.94	0.90	0.86
50,000 hours	0.89	0.85	0.80
75,000 hours	0.85	0.79	0.73
100,000 hours	0.79	0.74	
125,000 hours	0.74		

LEDgend 084 LED 350 mA	15°C	25°C	40°C
L70 life (hours)	157,000	125,000	92,000
12,500 hours	0.97	0.94	0.91
25,000 hours	0.94	0.91	0.87
50,000 hours	0.91	0.86	0.81
75,000 hours	0.88	0.81	0.74
100,000 hours	0.83	0.75	
125,000 hours	0.78	0.70	
150,000 hours	0.72		

## LUMEN DEPRECIATION TABLES

LEDgend 072 LED 350 mA	15°C	25°C	40°C
L70 life (hours)	172,000	135,000	98,000
12,500 hours	0.98	0.95	0.91
25,000 hours	0.96	0.92	0.88
50,000 hours	0.92	0.88	0.83
75,000 hours	0.89	0.83	0.76
100,000 hours	0.84	0.77	0.69
125,000 hours	0.78	0.72	
150,000 hours	0.72		

LEDgend 060 LED 350 mA	15°C	25°C	40°C
L70 life (hours)	185,000	146,000	106,000
12,500 hours	0.98	0.95	0.92
25,000 hours	0.96	0.93	0.89
50,000 hours	0.92	0.88	0.83
75,000 hours	0.89	0.83	0.77
100,000 hours	0.85	0.78	0.71
125,000 hours	0.81	0.74	
150,000 hours	0.77	0.69	

LEDgend 048 LED 350 mA	15°C	25°C	40°C
L70 life (hours)	202,000	159,000	115,000
12,500 hours	0.99	0.96	0.93
25,000 hours	0.97	0.94	0.90
50,000 hours	0.93	0.89	0.85
75,000 hours	0.90	0.85	0.79
100,000 hours	0.87	0.80	0.73
125,000 hours	0.84	0.76	
150,000 hours	0.80	0.71	
175,000 hours	0.76		

LEDgend 036 LED 350 mA	15°C	25°C	40°C
L70 life (hours)	217,000	171,000	124,000
12,500 hours	0.99	0.97	0.93
25,000 hours	0.97	0.95	0.91
50,000 hours	0.95	0.91	0.86
75,000 hours	0.92	0.87	0.81
100,000 hours	0.88	0.83	0.75
125,000 hours	0.86	0.78	0.69
150,000 hours	0.84	0.75	0.65
175,000 hours	0.81		
200,000 hours	0.77		

LEDgend 120 LED 525 mA	15°C	25°C	40°C
L70 life (hours)	78,000	65,000	51,000
12,500 hours	0.91	0.88	0.85
25,000 hours	0.87	0.84	0.80
50,000 hours	0.78	0.75	0.71
75,000 hours	0.71		

LEDgend 108 LED 525 mA	15°C	25°C	40°C
L70 life (hours)	82,000	68,000	53,000
12,500 hours	0.93	0.88	0.85
25,000 hours	0.88	0.84	0.80
50,000 hours	0.79	0.75	0.71
75,000 hours	0.72		

LEDgend 096 LED 525 mA	15°C	25°C	40°C
L70 life (hours)	87,000	72,000	56,000
12,500 hours	0.93	0.89	0.86
25,000 hours	0.89	0.85	0.81
50,000 hours	0.83	0.77	0.72
75,000 hours	0.77	0.69	

LEDgend 084 LED 525 mA	15°C	25°C	40°C
L70 life (hours)	94,000	78,000	61,000
12,500 hours	0.93	0.90	0.87
25,000 hours	0.89	0.86	0.83
50,000 hours	0.84	0.79	0.74
75,000 hours	0.78	0.71	

LEDgend 072 LED 525 mA	15°C	25°C	40°C
L70 life (hours)	103,000	85,000	65,000
12,500 hours	0.95	0.91	0.88
25,000 hours	0.91	0.87	0.83
50,000 hours	0.85	0.80	0.75
75,000 hours	0.79	0.73	
100,000 hours	0.72		

LEDgend 060 LED 525 mA	15°C	25°C	40°C
L70 life (hours)	114,000	94,000	72,000
12,500 hours	0.97	0.93	0.89
25,000 hours	0.93	0.89	0.85
50,000 hours	0.88	0.82	0.77
75,000 hours	0.82	0.75	
100,000 hours	0.76		

LEDgend 048 LED 525 mA	15°C	25°C	40°C
L70 life (hours)	126,000	104,000	79,000
12,500 hours	0.98	0.94	0.91
25,000 hours	0.95	0.91	0.86
50,000 hours	0.91	0.84	0.84
75,000 hours	0.83	0.77	0.71
100,000 hours	0.77	0.71	
125,000 hours	0.71		

LEDgend 36 LED 525 mA	15°C	25°C	40°C
L70 life (hours)	139,000	115,000	87,000
12,500 hours	0.98	0.95	0.92
25,000 hours	0.95	0.92	0.89
50,000 hours	0.88	0.85	0.82
75,000 hours	0.81	0.78	0.75
100,000 hours	0.75	0.72	
125,000 hours	0.72		

## LUMEN DEPRECIATION TABLES

LEDgend 108 LED 700 mA	15°C	25°C
L70 life (hours)	59,000	50,000
12,500 hours	0.90	0.86
25,000 hours	0.84	0.80
50,000 hours	0.74	0.70

LEDgend 96 LED 700 mA	15°C	25°C
L70 life (hours)	60,000	51,000
12,500 hours	0.90	0.86
25,000 hours	0.84	0.81
50,000 hours	0.74	0.70

LEDgend 084 LED 700 mA	15°C	25°C
L70 life (hours)	62,000	53,000
12,500 hours	0.89	0.85
25,000 hours	0.84	0.80
50,000 hours	0.74	0.70

LEDgend 072 LED 700 mA	15°C	25°C	40°C
L70 life (hours)	72,000	60,000	47,000
12,500 hours	0.89	0.87	0.85
25,000 hours	0.85	0.83	0.79
50,000 hours	0.76	0.73	0.69

LEDgend 060 LED 700 mA	15°C	25°C	40°C
L70 life (hours)	78,000	65,000	52,000
12,500 hours	0.94	0.90	0.86
25,000 hours	0.89	0.85	0.81
50,000 hours	0.82	0.76	0.70
65,000 hours	0.76	0.70	

LEDgend 048 LED 700 mA	15°C	25°C	40°C
L70 life (hours)	88,000	73,000	58,000
12,500 hours	0.94	0.91	0.88
25,000 hours	0.91	0.87	0.83
50,000 hours	0.84	0.78	0.73
75,000 hours	0.78		

LEDgend 036 LED 700 mA	15°C	25°C	40°C
L70 life (hours)	93,000	77,000	66,000
12,500 hours	0.95	0.92	0.89
25,000 hours	0.91	0.88	0.85
50,000 hours	0.82	0.79	0.76
75,000 hours	0.77	0.71	



**HOLOPHANE®**  
LEADER IN LIGHTING SOLUTIONS

An **AcuityBrands** Company

**Acuity Brands Lighting, Inc.**

Holophane Headquarters  
3825 Columbus Road  
Granville, OH 43023

Contact your local Holophane factory sales representative for application assistance, and computer-aided design and cost studies. For information on other Holophane products and systems, call the Inside Sales Service Department at 866-759-1577. In Canada call 905-707-5830 or fax 905-707-5695.