



Bridgelux® EB Series™ Gen 4 HE

Product Data Sheet DS530

Lengths: 280mm, 560mm, 1120mm

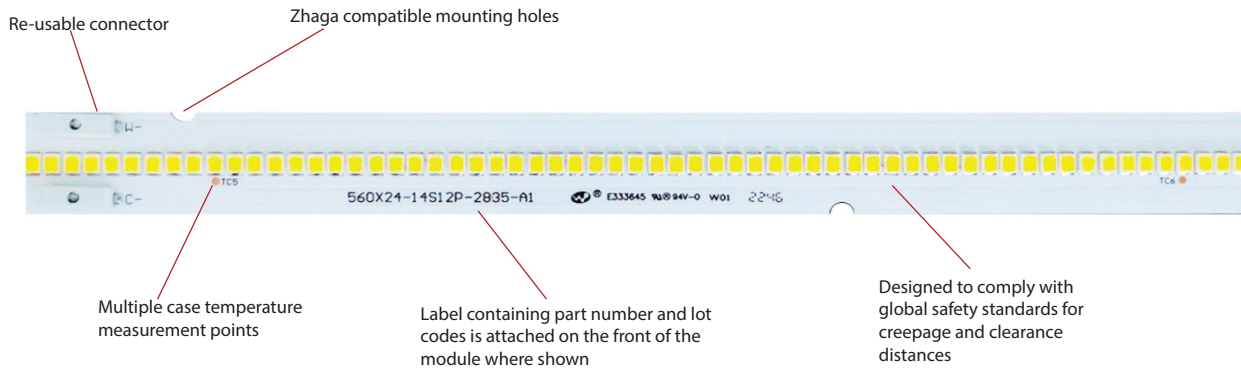
CRI: 80, 90

CCTs: 2700K, 3000K, 3500K, 4000K, 5000K, 5700K, 6500K



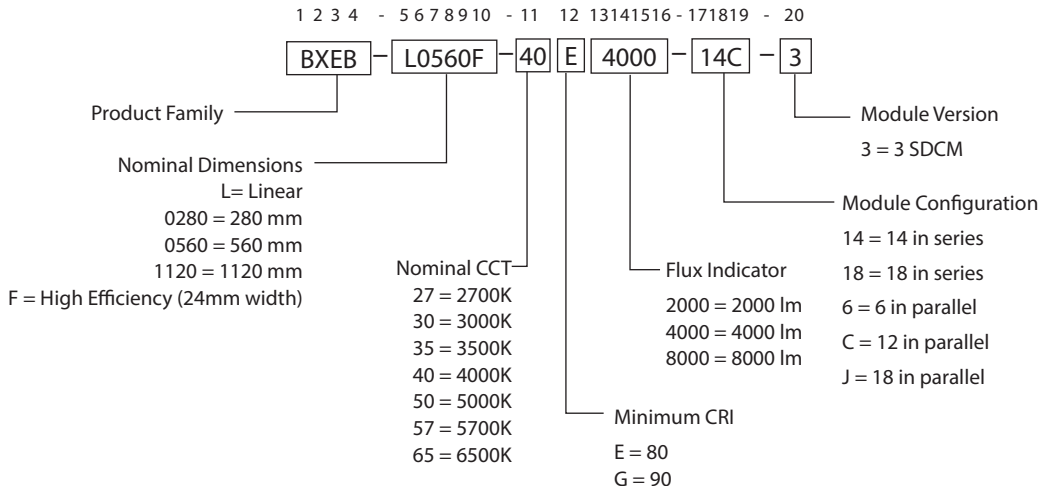
Product Feature Map

Bridgelux EB Series Gen 4 HE (High Efficiency) modules are fully engineered devices that provide consistent thermal and optical performance on an engineered mechanical platform. The linear products incorporate several features to simplify design integration and assembly. Please visit www.bridgelux.com for more information on the EB Series family of products.



Product Nomenclature

The part number designation for Bridgelux EB Series Gen 4 HE is explained as follows:



Product Selection Guide

Table 1: Selection Guide, Measurement Data ($T_c = 25^\circ\text{C}$)

Part Number	Nominal CCT ¹ (K)	CRI ²	Nominal Drive Current (mA)	Forward Voltage ³ (V)	Typical Power (W)	Typical Pulsed Flux ^{3,4} (lm)	Typical Efficacy (lm/W)
BXEB-L0280F-27E2000-146-3	2700	80	240	37.5	9	1797	200
BXEB-L0280F-30E2000-146-3	3000					1882	209
BXEB-L0280F-35E2000-146-3	3500					1882	209
BXEB-L0280F-40E2000-146-3	4000					1968	219
BXEB-L0280F-50E2000-146-3	5000					1968	219
BXEB-L0280F-57E2000-146-3	5700					1925	214
BXEB-L0280F-65E2000-146-3	6500					1925	214
BXEB-L0560F-27E4000-14C-3	2700	80	480	37.5	18	3594	200
BXEB-L0560F-30E4000-14C-3	3000					3765	209
BXEB-L0560F-35E4000-14C-3	3500					3765	209
BXEB-L0560F-40E4000-14C-3	4000					3936	219
BXEB-L0560F-50E4000-14C-3	5000					3936	219
BXEB-L0560F-57E4000-14C-3	5700					3850	214
BXEB-L0560F-65E4000-14C-3	6500					3850	214
BXEB-L1120F-27E8000-18J-3	2700	80	720	48.2	34.7	6931	200
BXEB-L1120F-30E8000-18J-3	3000					7261	209
BXEB-L1120F-35E8000-18J-3	3500					7261	209
BXEB-L1120F-40E8000-18J-3	4000					7591	219
BXEB-L1120F-50E8000-18J-3	5000					7591	219
BXEB-L1120F-57E8000-18J-3	5700					7426	214
BXEB-L1120F-65E8000-18J-3	6500					7426	214

Notes for Table 1:

1. Nominal CCT as defined by ANSI C78.377-2011.
2. CRI Values are minimums.
3. Drive current is referred to as nominal drive current.
4. Products tested under pulsed condition (10ms pulse width) at nominal drive current where T_c (case temperature) = 25°C . Values may vary depending on the thermal design of the luminaire and/or the exposed environment to which the product is subjected.
5. Typical performance values are provided as a reference only and are not a guarantee of performance.
6. Bridgelux maintains a $\pm 7\%$ tolerance on typical flux measurements

Product Selection Guide

Table 1: Selection Guide, Measurement Data ($T_c = 25^\circ\text{C}$)

Part Number	Nominal CCT ¹ (K)	CRI ²	Nominal Drive Current (mA)	Forward Voltage ³ (V)	Typical Power (W)	Typical Pulsed Flux ^{3,4} (lm)	Typical Efficacy (lm/W)
BXEB-L0280F-27G2000-146-3	2700	90	240	37.6	9	1616	179
BXEB-L0280F-30G2000-146-3	3000					1693	188
BXEB-L0280F-35G2000-146-3	3500					1693	188
BXEB-L0280F-40G2000-146-3	4000					1770	196
BXEB-L0280F-50G2000-146-3	5000					1770	196
BXEB-L0280F-57G2000-146-3	5700					1732	192
BXEB-L0280F-65G2000-146-3	6500					1732	192
BXEB-L0560F-27G4000-14C-3	2700	90	480	37.6	18	3233	179
BXEB-L0560F-30G4000-14C-3	3000					3387	188
BXEB-L0560F-35G4000-14C-3	3500					3387	188
BXEB-L0560F-40G4000-14C-3	4000					3541	196
BXEB-L0560F-50G4000-14C-3	5000					3541	196
BXEB-L0560F-57G4000-14C-3	5700					3464	192
BXEB-L0560F-65G4000-14C-3	6500					3464	192
BXEB-L1120F-27G8000-18J-3	2700	90	720	48.3	34.8	6235	179
BXEB-L1120F-30G8000-18J-3	3000					6531	188
BXEB-L1120F-35G8000-18J-3	3500					6531	188
BXEB-L1120F-40G8000-18J-3	4000					6828	196
BXEB-L1120F-50G8000-18J-3	5000					6828	196
BXEB-L1120F-57G8000-18J-3	5700					6680	192
BXEB-L1120F-65G8000-18J-3	6500					6680	192

Notes for Table 1:

1. Nominal CCT as defined by ANSI C78.377-2011.
2. CRI Values are minimums.
3. Drive current is referred to as nominal drive current.
4. Products tested under pulsed condition (10ms pulse width) at nominal drive current where T_c (case temperature) = 25°C . Values may vary depending on the thermal design of the luminaire and/or the exposed environment to which the product is subjected.
5. Typical performance values are provided as a reference only and are not a guarantee of performance.
6. Bridgelux maintains a $\pm 7\%$ tolerance on typical flux measurements

Performance at Commonly Used Drive Currents

EB series Gen 4 HE modules are tested to the specifications shown using the nominal drive currents in Table 1. EB series Gen 4 HE modules may also be driven at other drive currents dependent on specific application design requirements. The performance at any drive current can be derived from the current vs. voltage characteristics shown in Figures 1, 3 & 5, and the flux vs. current characteristics shown in Figures 2, 4 & 6. The performance at commonly used drive currents is summarized in Table 2.

Table 2: Performance at Commonly Used Drive Currents ($T_c = 25^\circ\text{C}$)

Part Number	CRI	Drive Current ¹ (mA)	Typical V_f (V)	Typical Power (W)	Typical Pulsed Flux ² (lm)	Typical Efficacy (lm/W)
BXEB-L0280F-27E2000-146-3	80	180	37.2	6.7	1344	201
		210	37.3	7.8	1570	201
		240	37.5	9.0	1797	200
		270	37.7	10.2	2011	198
		300	37.8	11.4	2235	197
		330	38.0	12.5	2462	196
		360	38.2	13.7	2678	195
		720	39.9	28.7	5238	182
BXEB-L0280F-30E2000-146-3 BXEB-L0280F-35E2000-146-3	80	180	37.2	6.7	1408	211
		210	37.3	7.8	1645	210
		240	37.5	9.0	1882	209
		270	37.7	10.2	2107	207
		300	37.8	11.4	2341	206
		330	38.0	12.5	2579	206
		360	38.2	13.7	2805	204
		720	39.9	28.7	5487	191
BXEB-L0280F-40E2000-146-3 BXEB-L0280F-50E2000-146-3	80	180	37.2	6.7	1472	220
		210	37.3	7.8	1720	220
		240	37.5	9.0	1968	219
		270	37.7	10.2	2203	217
		300	37.8	11.4	2448	216
		330	38.0	12.5	2696	215
		360	38.2	13.7	2933	213
		720	39.9	28.7	5737	200
BXEB-L0280F-57E2000-146-3 BXEB-L0280F-65E2000-146-3	80	180	37.2	6.7	1440	215
		210	37.3	7.8	1683	215
		240	37.5	9.0	1925	214
		270	37.7	10.2	2155	212
		300	37.8	11.4	2395	211
		330	38.0	12.5	2638	210
		360	38.2	13.7	2869	209
		720	39.9	28.7	5612	195

Notes for Table 2:

1. Alternate drive currents are provided for reference only and are not a guarantee of performance.
2. Bridgelux maintains a $\pm 7\%$ tolerance on flux measurements.

Performance at Commonly Used Drive Currents

Table 2: Performance at Commonly Used Drive Currents ($T_c = 25^\circ\text{C}$)

Part Number	CRI	Drive Current ¹ (mA)	Typical V_f (V)	Typical Power (W)	Typical Pulsed Flux ² (lm)	Typical Efficacy (lm/W)
BXEB-L0560F-27E4000-14C-3	80	360	37.2	13.4	2688	201
		420	37.3	15.7	3141	201
		480	37.5	18.0	3594	200
		540	37.7	20.3	4023	198
		600	37.8	22.7	4470	197
		660	38.0	25.1	4924	196
		720	38.2	27.5	5355	195
		1440	39.9	57.5	10476	182
BXEB-L0560F-30E4000-14C-3 BXEB-L0560F-35E4000-14C-3	80	360	37.2	13.4	2816	211
		420	37.3	15.7	3290	210
		480	37.5	18.0	3765	209
		540	37.7	20.3	4214	207
		600	37.8	22.7	4683	206
		660	38.0	25.1	5158	206
		720	38.2	27.5	5610	204
		1440	39.9	57.5	10975	191
BXEB-L0560F-40E4000-14C-3 BXEB-L0560F-50E4000-14C-3	80	360	37.2	13.4	2944	220
		420	37.3	15.7	3440	220
		480	37.5	18.0	3936	219
		540	37.7	20.3	4406	217
		600	37.8	22.7	4896	216
		660	38.0	25.1	5393	215
		720	38.2	27.5	5865	213
		1440	39.9	57.5	11473	200
BXEB-L0560F-57E4000-14C-3 BXEB-L0560F-65E4000-14C-3	80	360	37.2	13.4	2880	215
		420	37.3	15.7	3365	215
		480	37.5	18.0	3850	214
		540	37.7	20.3	4310	212
		600	37.8	22.7	4789	211
		660	38.0	25.1	5276	210
		720	38.2	27.5	5738	209
		1440	39.9	57.5	11224	195

Notes for Table 2:

1. Alternate drive currents are provided for reference only and are not a guarantee of performance.
2. Bridgelux maintains a $\pm 7\%$ tolerance on flux measurements.

Performance at Commonly Used Drive Currents

Table 2: Performance at Commonly Used Drive Currents ($T_c = 25^\circ\text{C}$)

Part Number	CRI	Drive Current ¹ (mA)	Typical V_f (V)	Typical Power (W)	Typical Pulsed Flux ² (lm)	Typical Efficacy (lm/W)
BXEB-L1120F-27E8000-18J-3	80	540	47.8	25.8	5184	201
		630	47.9	30.2	6057	201
		720	48.2	34.7	6931	200
		810	48.4	39.2	7758	198
		900	48.7	43.8	8621	197
		990	48.9	48.4	9496	196
		1080	49.1	53.0	10328	195
		2160	51.3	110.8	20203	182
BXEB-L1120F-30E8000-18J-3 BXEB-L1120F-35E8000-18J-3	80	540	47.8	25.8	5431	211
		630	47.9	30.2	6345	210
		720	48.2	34.7	7261	209
		810	48.4	39.2	8128	207
		900	48.7	43.8	9031	206
		990	48.9	48.4	9948	206
		1080	49.1	53.0	10820	204
		2160	51.3	110.8	21165	191
BXEB-L1120F-40E8000-18J-3 BXEB-L1120F-50E8000-18J-3	80	540	47.8	25.8	5678	220
		630	47.9	30.2	6634	220
		720	48.2	34.7	7591	219
		810	48.4	39.2	8497	217
		900	48.7	43.8	9442	216
		990	48.9	48.4	10400	215
		1080	49.1	53.0	11311	213
		2160	51.3	110.8	22127	200
BXEB-L1120F-57E8000-18J-3 BXEB-L1120F-65E8000-18J-3	80	540	47.8	25.8	5554	215
		630	47.9	30.2	6490	215
		720	48.2	34.7	7426	214
		810	48.4	39.2	8313	212
		900	48.7	43.8	9237	211
		990	48.9	48.4	10174	210
		1080	49.1	53.0	11065	209
		2160	51.3	110.8	21646	195

Notes for Table 2:

1. Alternate drive currents are provided for reference only and are not a guarantee of performance.
2. Bridgelux maintains a $\pm 7\%$ tolerance on flux measurements.

Performance at Commonly Used Drive Currents

Table 2: Performance at Commonly Used Drive Currents ($T_c = 25^\circ\text{C}$)

Part Number	CRI	Drive Current ¹ (mA)	Typical V_f (V)	Typical Power (W)	Typical Pulsed Flux ² (lm)	Typical Efficacy (lm/W)
BXEB-L0280F-27G2000-146-3	90	180	37.2	6.7	1209	180
		210	37.4	7.8	1413	180
		240	37.6	9.0	1617	179
		270	37.7	10.2	1810	178
		300	37.9	11.4	2011	177
		330	38.1	12.6	2215	176
		360	38.3	13.8	2409	175
BXEB-L0280F-30G2000-146-3 BXEB-L0280F-35G2000-146-3	90	720	40.0	28.8	4712	164
		180	37.2	6.7	1267	189
		210	37.4	7.8	1480	189
		240	37.6	9.0	1693	188
		270	37.7	10.2	1896	186
		300	37.9	11.4	2106	185
		330	38.1	12.6	2320	185
BXEB-L0280F-40G2000-146-3 BXEB-L0280F-50G2000-146-3	90	360	38.3	13.8	2524	183
		720	40.0	28.8	4937	171
		180	37.2	6.7	1324	198
		210	37.4	7.8	1547	197
		240	37.6	9.0	1770	196
		270	37.7	10.2	1982	194
		300	37.9	11.4	2202	194
BXEB-L0280F-57G2000-146-3 BXEB-L0280F-65G2000-146-3	90	330	38.1	12.6	2426	193
		360	38.3	13.8	2638	192
		720	40.0	28.8	5161	179
		180	37.2	6.7	1295	193
		210	37.4	7.8	1514	193
		240	37.6	9.0	1732	192
		270	37.7	10.2	1939	190
BXEB-L0280F-57G2000-146-3 BXEB-L0280F-65G2000-146-3	90	300	37.9	11.4	2154	189
		330	38.1	12.6	2373	189
		360	38.3	13.8	2581	187
		720	40.0	28.8	5049	175

Notes for Table 2:

1. Alternate drive currents are provided for reference only and are not a guarantee of performance.
2. Bridgelux maintains a $\pm 7\%$ tolerance on flux measurements.

Performance at Commonly Used Drive Currents

Table 2: Performance at Commonly Used Drive Currents ($T_c = 25^\circ\text{C}$)

Part Number	CRI	Drive Current ¹ (mA)	Typical V_f (V)	Typical Power (W)	Typical Pulsed Flux ² (lm)	Typical Efficacy (lm/W)
BXEB-L0560F-27G4000-14C-3	90	360	37.2	13.4	2418	180
		420	37.4	15.7	2825	180
		480	37.6	18.0	3233	179
		540	37.7	20.4	3619	178
		600	37.9	22.8	4021	177
		660	38.1	25.1	4430	176
		720	38.3	27.5	4818	175
EXEB-L0560F-30G4000-14C-3 BXEB-L0560F-35G4000-14C-3	90	360	37.2	13.4	2533	189
		420	37.4	15.7	2960	189
		480	37.6	18.0	3387	188
		540	37.7	20.4	3791	186
		600	37.9	22.8	4213	185
		660	38.1	25.1	4641	185
		720	38.3	27.5	5047	183
BXEB-L0560F-40G4000-14C-3 BXEB-L0560F-50G4000-14C-3	90	360	37.2	13.4	2649	198
		420	37.4	15.7	3095	197
		480	37.6	18.0	3541	196
		540	37.7	20.4	3964	194
		600	37.9	22.8	4404	194
		660	38.1	25.1	4852	193
		720	38.3	27.5	5276	192
BXEB-L0560F-57G4000-14C-3 BXEB-L0560F-65G4000-14C-3	90	360	37.2	13.4	2591	193
		420	37.4	15.7	3027	193
		480	37.6	18.0	3464	192
		540	37.7	20.4	3878	190
		600	37.9	22.8	4309	189
		660	38.1	25.1	4746	189
		720	38.3	27.5	5162	187
1440	40.0	57.6	10097	175		

Notes for Table 2:

1. Alternate drive currents are provided for reference only and are not a guarantee of performance.
2. Bridgelux maintains a $\pm 7\%$ tolerance on flux measurements.

Performance at Commonly Used Drive Currents

Table 2: Performance at Commonly Used Drive Currents ($T_c = 25^\circ\text{C}$)

Part Number	CRI	Drive Current ¹ (mA)	Typical V_f (V)	Typical Power (W)	Typical Pulsed Flux ² (lm)	Typical Efficacy (lm/W)
BXEB-L1120F-27G8000-18J-3	90	540	47.9	25.8	4664	180
		630	48.0	30.3	5449	180
		720	48.3	34.8	6235	179
		810	48.5	39.3	6980	178
		900	48.8	43.9	7755	177
		990	49.0	48.5	8543	176
		1080	49.2	53.1	9291	175
		2160	51.4	111.1	18175	164
BXEB-L1120F-30G8000-18J-3 BXEB-L1120F-35G8000-18J-3	90	540	47.9	25.8	4886	189
		630	48.0	30.3	5709	189
		720	48.3	34.8	6532	188
		810	48.5	39.3	7312	186
		900	48.8	43.9	8125	185
		990	49.0	48.5	8950	185
		1080	49.2	53.1	9734	183
		2160	51.4	111.1	19041	171
BXEB-L1120F-40G8000-18J-3 BXEB-L1120F-50G8000-18J-3	90	540	47.9	25.8	5108	198
		630	48.0	30.3	5968	197
		720	48.3	34.8	6829	196
		810	48.5	39.3	7644	194
		900	48.8	43.9	8494	194
		990	49.0	48.5	9356	193
		1080	49.2	53.1	10176	192
		2160	51.4	111.1	19906	179
BXEB-L1120F-57G8000-18J-3 BXEB-L1120F-65G8000-18J-3	90	540	47.9	25.8	4997	193
		630	48.0	30.3	5838	193
		720	48.3	34.8	6680	192
		810	48.5	39.3	7478	190
		900	48.8	43.9	8309	189
		990	49.0	48.5	9153	189
		1080	49.2	53.1	9955	187
		2160	51.4	111.1	19473	175

Notes for Table 2:

1. Alternate drive currents are provided for reference only and are not a guarantee of performance.
2. Bridgelux maintains a $\pm 7\%$ tolerance on flux measurements.

Absolute Maximum Ratings

Table 3: Maximum Ratings

Parameter	Maximum Rating		
Storage Temperature	-40°C to +85°C		
Operating Case Temperature ² (T _c)	85°C		
Soldering Temperature	350°C or lower for a maximum of 5 seconds		
Maximum Reverse Voltage	Modules are not designed to be driven in reverse bias		
	BXEB-L0280F-xxx2000-146-3	BXEB-L0560F-xxx4000-14C-3	BXEB-L1120F-xxx8000-18J-3
Maximum Drive Current ³	900mA	1800mA	2700mA

Notes for Table 3:

1. For IEC 62717 requirement, please consult your Bridgelux sales representative.
2. Lumen maintenance (L70) and lifetime predictions are valid for drive current and case temperature conditions used for LM-80 testing as included in the applicable LM-80 test report for the SMDs used in the modules. Contact your Bridgelux sales representatives for LM-80 report.
3. Max drive current values are provided as a reference only with LED module mounted onto a heat sink with thermal interface material and the case temperature maintained at 85°C. Based on Bridgelux test setup, values may vary depending on the thermal design of the luminaire and/or the exposed environment to which the product is subjected.

Performance Curves

Figure 1: 280mm Current vs. Forward Voltage, $T_c=25^\circ\text{C}$

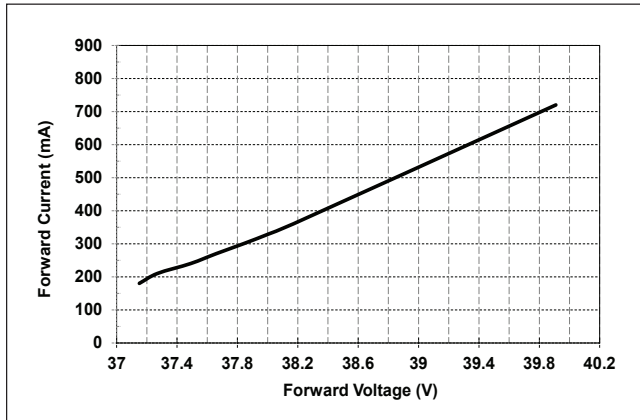


Figure 2: 280mm Relative Flux vs. Current, $T_c=25^\circ\text{C}$

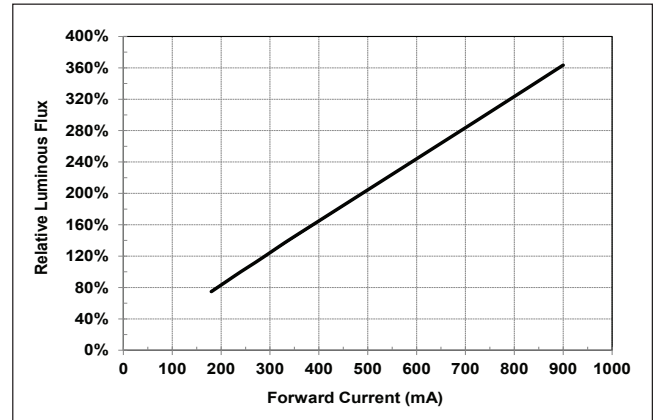


Figure 3: 560mm Current vs. Forward Voltage, $T_c=25^\circ\text{C}$

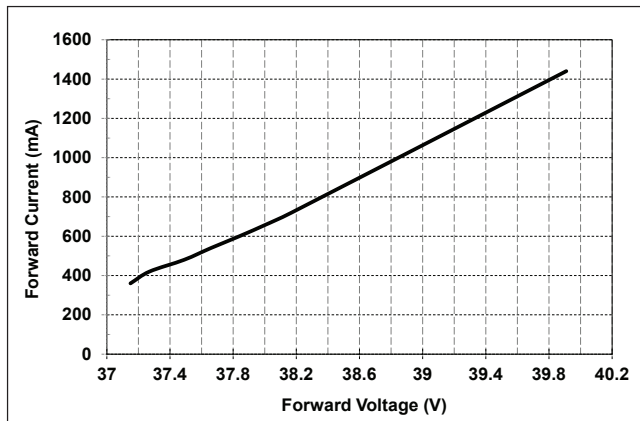


Figure 4: 560mm Relative Flux vs. Current, $T_c=25^\circ\text{C}$

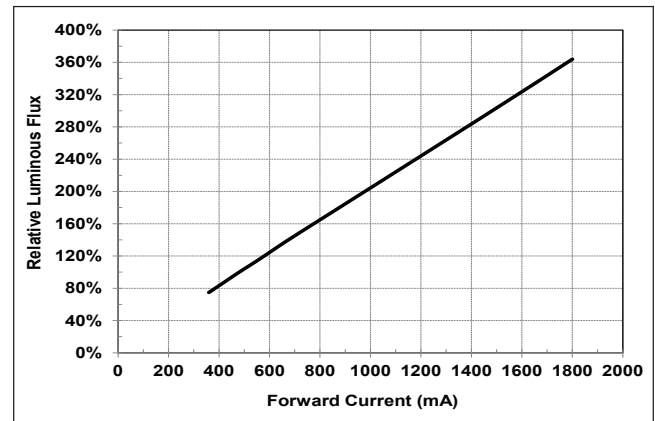


Figure 5: 1120mm Current vs. Forward Voltage, $T_c=25^\circ\text{C}$

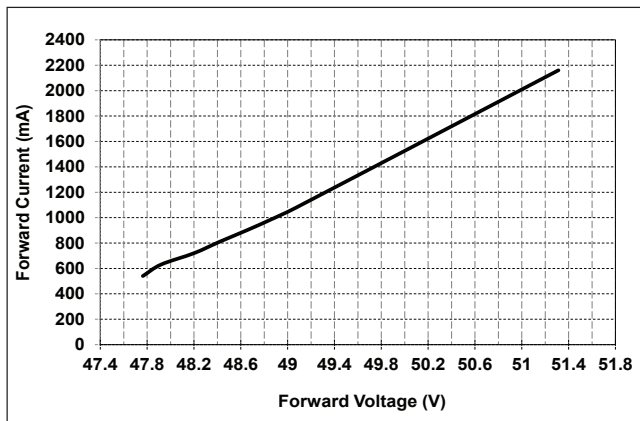
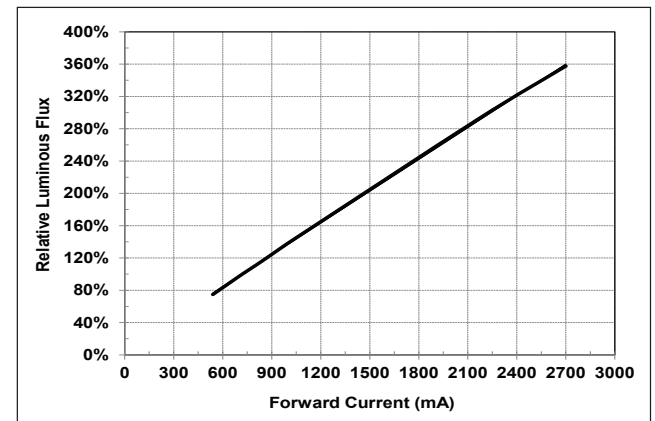


Figure 6: 1120mm Relative Flux vs. Current, $T_c=25^\circ\text{C}$



Performance Curves and Typical Radiation Pattern

Figure 7: Relative Voltage vs. Case Temperature

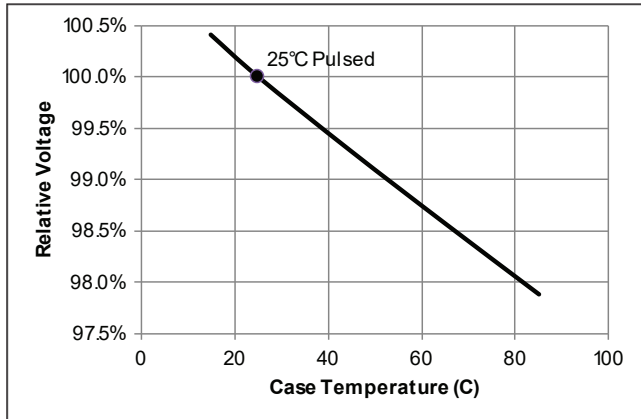


Figure 8: Relative Flux vs. Case Temperature

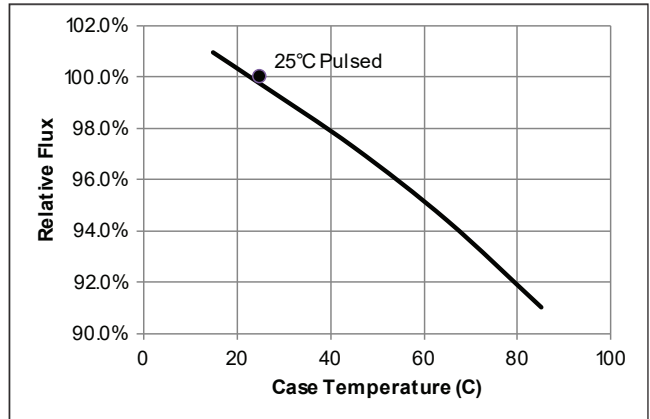
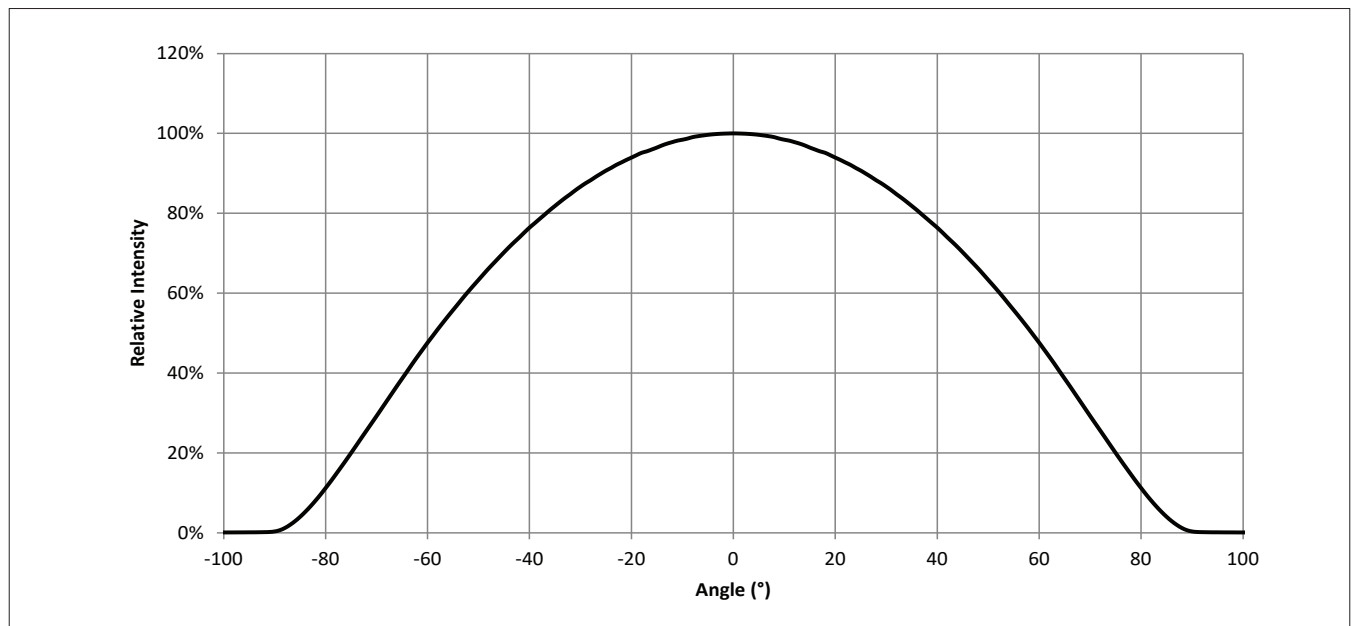


Figure 9: Typical Spatial Radiation Pattern



Notes for Figure 9:

1. Typical viewing angle is 120°.
2. The viewing angle is defined as the off axis angle from the centerline where I_v is $\frac{1}{2}$ of the peak value.

Typical Color Spectrum

Figure 10: Typical Color Spectra, 80 CRI

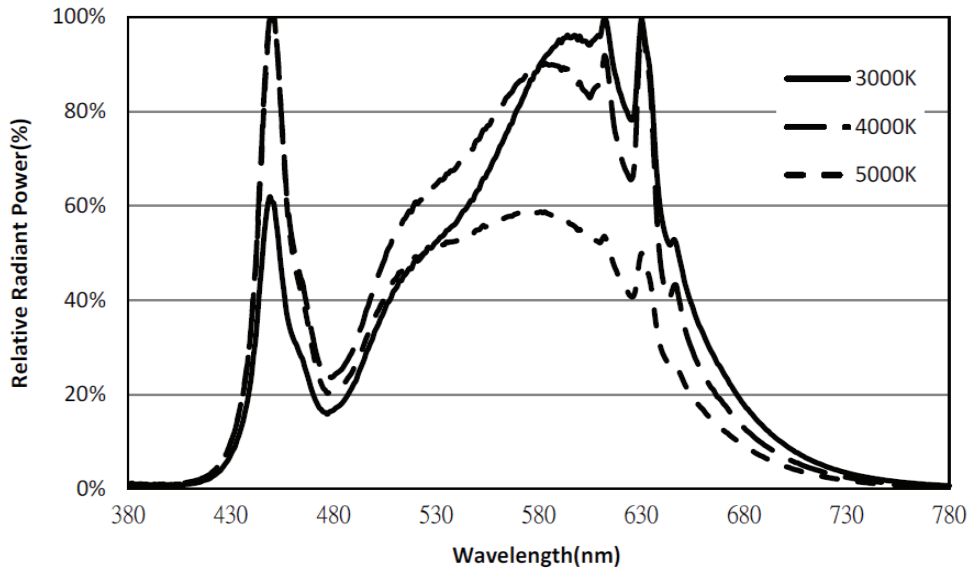
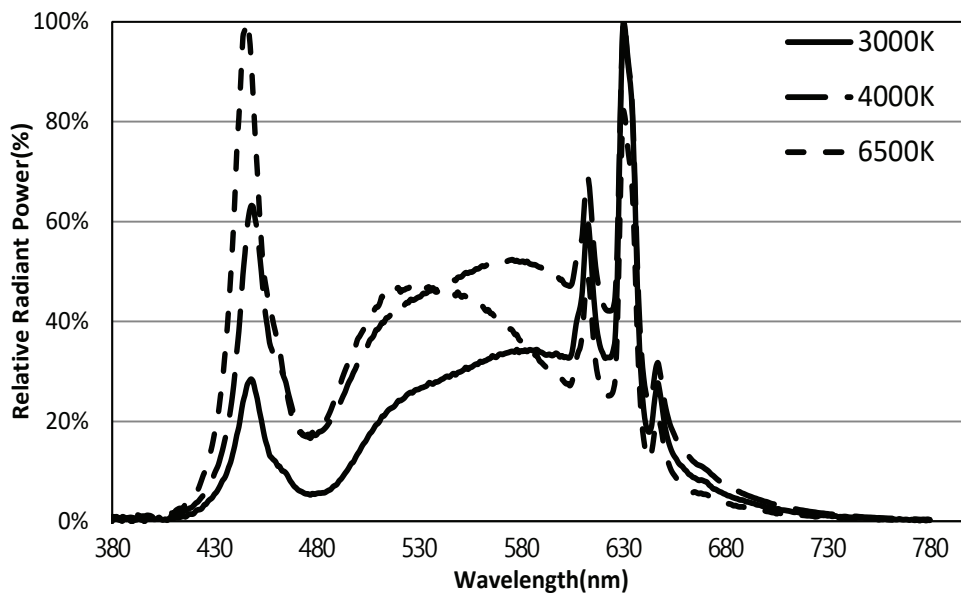


Figure 11: Typical Color Spectra, 90 CRI



Note for Figures 10 & 11:

1. Color spectra measured at nominal current for $T_c = 25^\circ\text{C}$

Mechanical Dimensions

Figure 12: Drawing Overview for 280mm

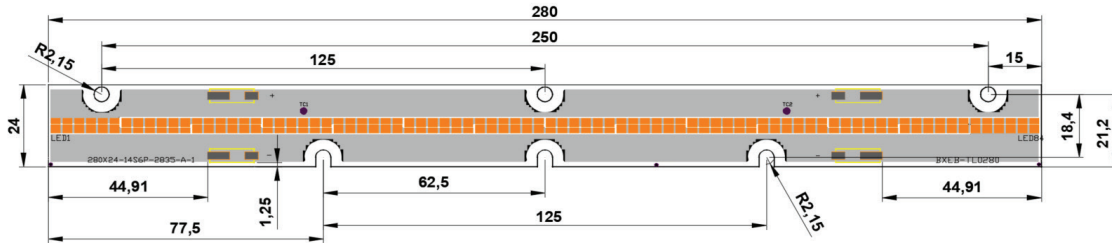


Figure 13: Drawing Overview for 560mm

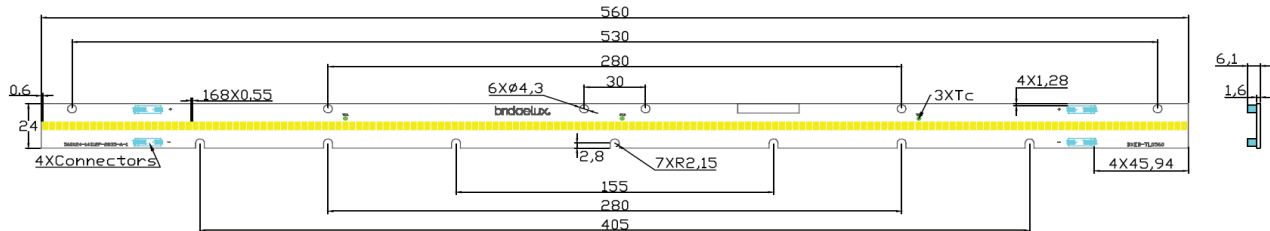
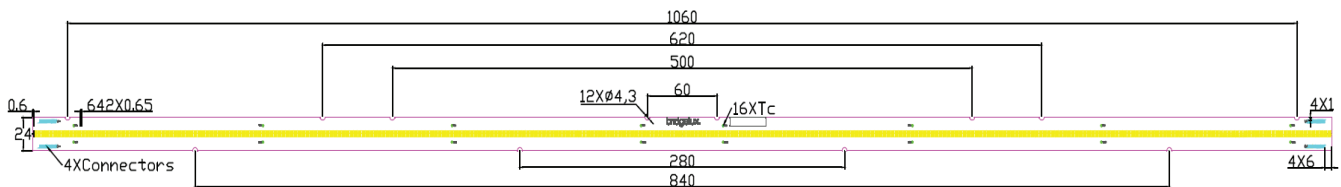


Figure 14: Drawing Overview for 1120mm



Notes for Figures 12, 13 & 14:

1. Solder pads are labeled "+" to denote positive polarity, and "-" to denote negative polarity.
2. Drawing dimensions are in millimeters.

Table 4: Module Dimensions & Connector Wiring

Parameter	BXEB-L0280F-xxx2000-146-3	BXEB-L0560F-xxx4000-14C-3	BXEB-L1120F-xxx8000-18J-3
Linear length	280.0 mm	560.0 mm	1120.0 mm
Linear width	24 mm		
Overall thickness	6.1 mm		
PCB thickness	1.6 mm		
Input wire cross-section	18-24 AWG		
Wire strip length	7-9 mm		

Color Binning Information

Figure 15: 3 SDCM Color Bins in CIE 1931 xy Color Space

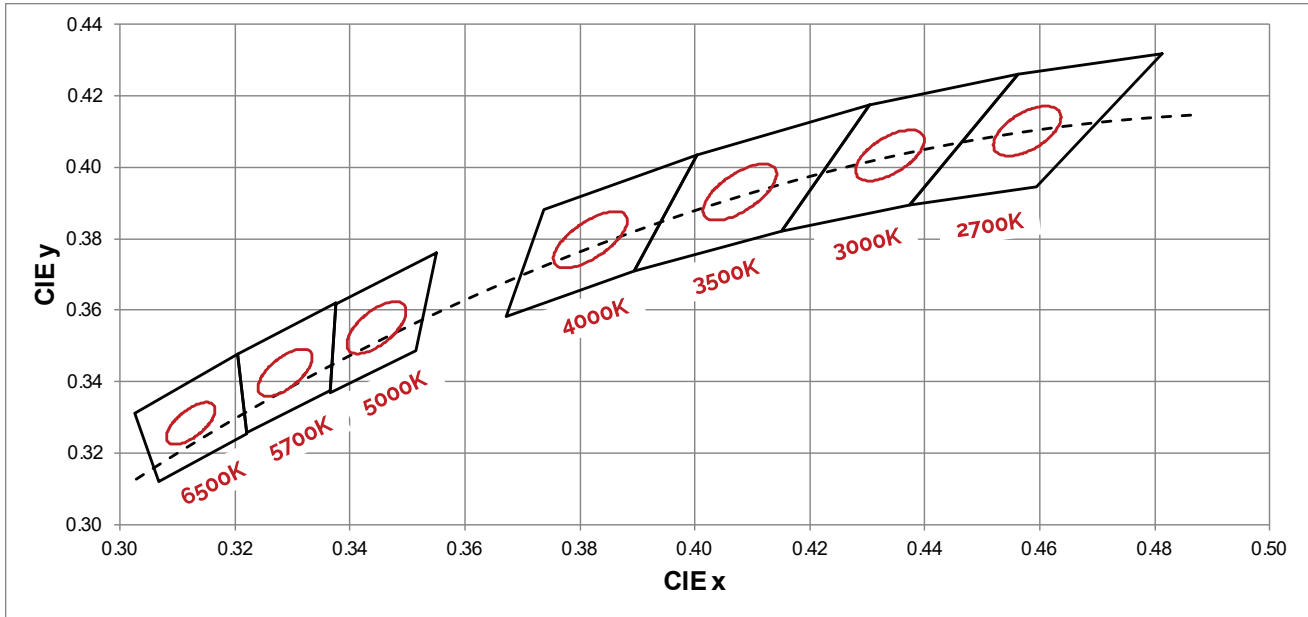


Table 5: Bin Coordinates and Associated Typical CCT

CCT	Color Consistency	CIE Center Point (x, y)	Corresponding CCT Range
2700K	3 SDCM	(0.458, 0.410)	2651K - 2794K
3000K	3 SDCM	(0.434, 0.403)	2968K - 3136K
3500K	3 SDCM	(0.407, 0.392)	3369K - 3586K
4000K	3 SDCM	(0.382, 0.380)	3851K - 4130K
5000K	3 SDCM	(0.3445, 0.355)	4835K - 5215K
5700K	3 SDCM	(0.329, 0.342)	5490K - 5820K
6500K	3 SDCM	(0.312, 0.328)	6250K - 6745K

Notes for Table 5:

1. Color binning at solder point temperature T_{sp} of SMDs at 25°C for 80 CRI and 60°C for 90 CRI.
2. Bridgelux maintains a tolerance of ± 0.007 on x and y color coordinates in the CIE 1931 color space.
3. Quadrangular ANSI bins shown for reference only

Packaging and Labeling

Figure 16: EB Series Packaging and Labeling

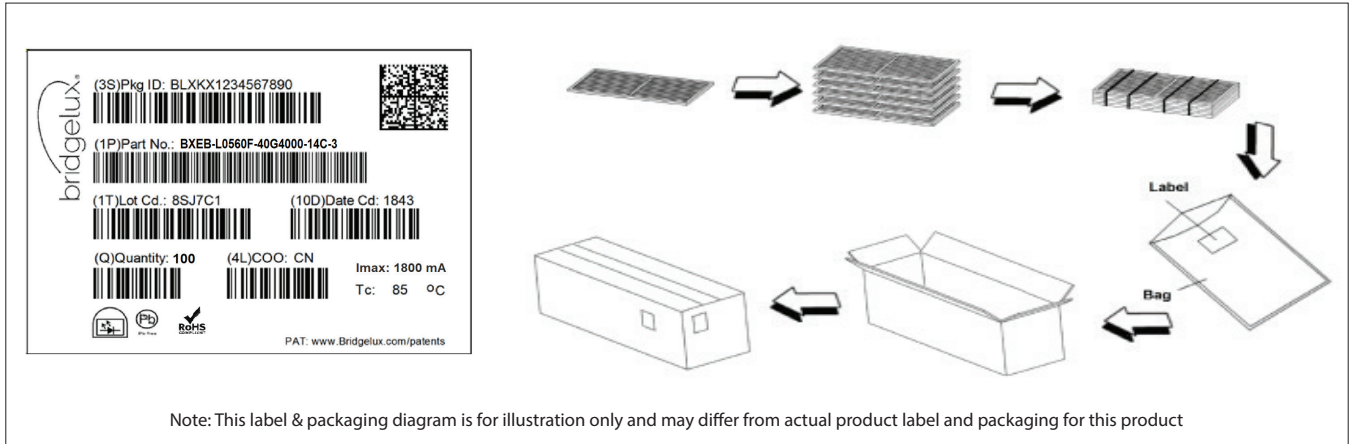


Table 6: Packaging Structure

Box Parameter	L0280 modules	L0560 modules	L1120 modules
Quantity	200	100	100
Dimension	60.0 cm x 19.4 cm x 16.9 cm	60.0 cm x 19.4 cm x 16.9 cm	115.9 cm x 19.4 cm x 16.9 cm

Figure 17: Product Labeling

Bridgelux EB Series modules contain a label on the front to help with product identification. In addition to the product identification markings, Bridgelux EB Series modules also contain markings for internal Bridgelux manufacturing use only. The image below shows which markings are for customer use and which ones are for Bridgelux internal use only. The Bridgelux internal manufacturing markings are subject to change without notice, however these will not impact the form, function or performance of the module.



EB Series Gen 4 HE
2ft 4000lm 480mA

Customer Use- 2D Barcode
Scannable barcode provides
product part number and other
Bridgelux internal production
information.

Design Resources

Application Notes

Bridgelux has developed a comprehensive set of application notes and design resources to assist customers in successfully designing with the EB Series product family. For a list of resources under development, visit www.bridgelux.com.

Optical Source Models

Optical source models and ray set files are available for all Bridgelux products. For a list of available formats, visit www.bridgelux.com.

3D CAD Models

Three dimensional CAD models depicting the product outline of all Bridgelux EB Series LED linears are available in both IGES and STEP formats. Please contact your Bridgelux sales representative for assistance.

Precautions

CAUTION: CHEMICAL EXPOSURE HAZARD

Exposure to some chemicals commonly used in luminaire manufacturing and assembly can cause damage to the LED linear. Please consult Bridgelux Application Note for additional information.

CAUTION: EYE SAFETY

Eye safety classification for the use of Bridgelux EB Series is in accordance with IEC/TR62778: Application of IEC 62471 for the assessment of blue light hazard to light sources and luminaires. EB Series linears are classified as Risk Group 1 when operated at or below the maximum drive current. Please use appropriate precautions. It is important that employees working with LEDs are trained to use them safely.

CAUTION: RISK OF BURN

Do not touch the EB Series linears during operation. Allow the linear to cool for a sufficient period of time before handling. The EB Series linears may reach elevated temperatures such that could burn skin when touched.

CAUTION

CONTACT WITH LIGHT EMITTING SURFACE (LES)

Avoid any contact with the LES. Do not touch the LES of the linear or apply stress to the LES (yellow phosphor resin area). Contact may cause damage to the linear.

Optics and reflectors must not be mounted in contact with the LES (yellow phosphor resin area).
Optical devices may be mounted on the top surface of the EB Series linear. Use the mechanical features of the linear housing, edges and/or mounting holes to locate and secure optical devices as needed.

Disclaimers

STANDARD TEST CONDITIONS

Unless otherwise stated, linear testing is performed at the nominal drive current.

MINOR PRODUCT CHANGE POLICY

The rigorous qualification testing on products offered by Bridgelux provides performance assurance. Slight cosmetic changes that do not affect form, fit, or function may occur as Bridgelux continues product optimization.

About Bridgelux: Bridging Light and Life™

At Bridgelux, we help companies, industries and people experience the power and possibility of light. Since 2002, we've designed LED solutions that are high performing, energy efficient, cost effective and easy to integrate. Our focus is on light's impact on human behavior, delivering products that create better environments, experiences and returns—both experiential and financial. And our patented technology drives new platforms for commercial and industrial luminaires.

For more information about the company, please visit

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Bridgelux EB Series Gen 4 HE (High Efficiency) Data Sheet DS530 Rev. B (02/2024)