# TAMLITE
## LIGHTING

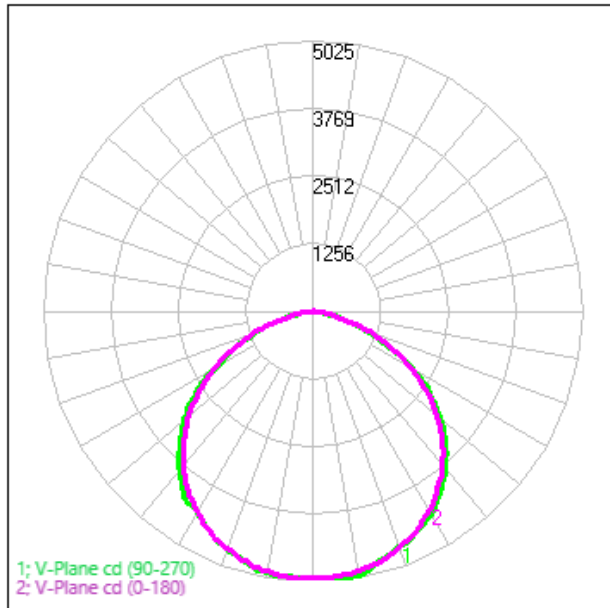| Project: | |
|---|---|
| Location: | |
| **Model#:** HBX10040K-347V | **Type:** |
| **Client:** | **Qty:** |
| **Prepared by:** | **Date:** |

## SERIES SPECIFICATIONS

To supply Tamlite HBX series of LED fixtures as specified. The luminaire shall operate at 347Vac. The housing shall be constructed of powder-coated steel with a heat and impact resistant polycarbonate lens. All parts shall be corrosion resistant. The fixture shall be cULus Listed. The fixture shall be DLC Approved
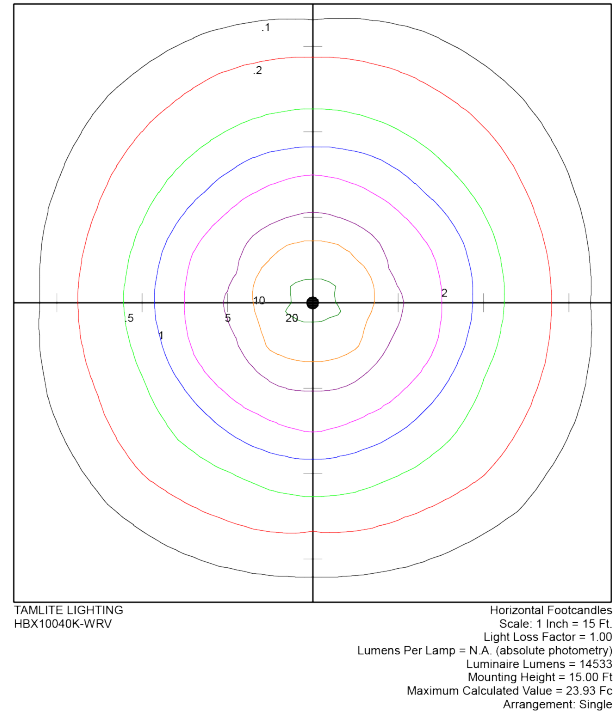
c(UL)us LISTED · 347 VAC · DIM 1-10V · LED · 4000K · MADE TO ORDER

## PERFORMANCE SPECIFICATIONS

Tamlite Lighting | 7805 HWY 50, VAUGHAN, ON. L4H 3N5 | Tel: (905) 495-4432 | Fax: (905) 495-3494 | www.tamlite.ca

## Luminance Distribution Chart



1; V-Plane cd (90-270)
2; V-Plane cd (0-180)

## Isolux Diagram



TAMLITE LIGHTING
HBX10040K-WRV

Horizontal Footcandles
Scale: 1 Inch = 15 Ft.
Light Loss Factor = 1.00
Lumens Per Lamp = N.A. (absolute photometry)
Luminaire Lumens = 14533
Mounting Height = 15.00 Ft
Maximum Calculated Value = 23.93 Fc
Arrangement: Single

## Zonal Lumen Summary

| Zone | Lumens | Zone | Lumens | Zone | Lumens | Zone | Lumens | Zone | Lumens | Zone | Lumens |
|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|
| 0-10 | 474.44 | 30-40 | 2569.88 | 60-70 | 1574.83 | 90-100 | 1.26 | 120-130 | 6.47 | 150-160 | 4.85 |
| 10-20 | 1373.77 | 40-50 | 2674.61 | 70-80 | 655.75 | 100-110 | 3.17 | 130-140 | 7.48 | 160-170 | 3.12 |
| 20-30 | 2102.36 | 50-60 | 2348.68 | 80-90 | 62.08 | 110-120 | 5.14 | 140-150 | 6.57 | 170-180 | 1.17 |

## Co-efficient of Utilization

| 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 | 0 |
| RF | 20 | | | | 20 | | | | 20 | | | 20 | | | 20 | | | 20 |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 110 | 105 | 101 | 98 | 107 | 103 | 99 | 96 | 99 | 96 | 93 | 95 | 92 | 90 | 91 | 89 | 88 | 85 |
| 2 | 100 | 92 | 86 | 80 | 97 | 90 | 84 | 79 | 87 | 82 | 78 | 84 | 79 | 76 | 81 | 77 | 74 | 72 |
| 3 | 91 | 81 | 73 | 67 | 89 | 80 | 72 | 67 | 77 | 71 | 65 | 74 | 69 | 64 | 71 | 67 | 63 | 61 |
| 4 | 84 | 72 | 64 | 57 | 81 | 71 | 63 | 57 | 68 | 61 | 56 | 66 | 60 | 55 | 64 | 59 | 54 | 52 |
| 5 | 77 | 64 | 56 | 49 | 75 | 63 | 55 | 49 | 61 | 54 | 48 | 59 | 53 | 48 | 57 | 52 | 47 | 45 |
| 6 | 71 | 58 | 49 | 43 | 69 | 57 | 49 | 43 | 55 | 48 | 42 | 54 | 47 | 42 | 52 | 46 | 42 | 40 |
| 7 | 66 | 53 | 44 | 38 | 64 | 52 | 44 | 38 | 50 | 43 | 37 | 49 | 42 | 37 | 47 | 41 | 37 | 35 |
| 8 | 61 | 48 | 40 | 34 | 60 | 47 | 39 | 34 | 46 | 39 | 33 | 45 | 38 | 33 | 43 | 37 | 33 | 31 |
| 9 | 57 | 44 | 36 | 30 | 56 | 43 | 36 | 30 | 42 | 35 | 30 | 41 | 35 | 30 | 40 | 34 | 30 | 28 |
| 10 | 54 | 41 | 33 | 28 | 52 | 40 | 33 | 27 | 39 | 32 | 27 | 38 | 32 | 27 | 37 | 31 | 27 | 25 |

**Initial Lumen Output:** 14533lm

**Beam Angle:** 120 deg

**Spacing Criteria:** 1.32 (0-180), 1.30(90-270)

**Ambient Operating Temp:** -20C to +40C

**CCN Number:** IFAM7.E359675

**Efficacy:** 140lm/W

**Field Angle:** 170 deg

**Environmental Rating(s):** IP20

**Certification Standards:** UL Safety US-CA , DLC_5.1

**Limited Product Warranty:** 5 Year(s)

**CBCP:** 5024

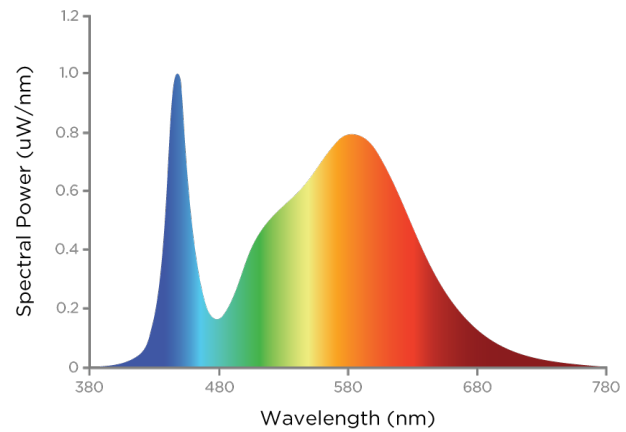**Luminaire Type:** Direct

**UL Classification:** Damp Location Listed

**DLC Number:** PLZQPU6WG5PU
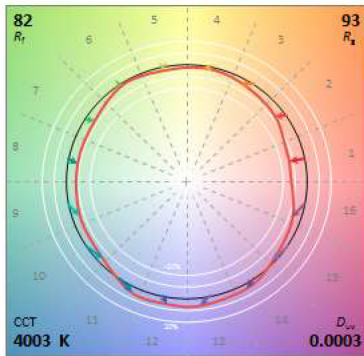
## LED SPECIFICATIONS

### R Tables

| | | | | |
|---|---|---|---|---|
| R1 | 80 | R9 | 2 |
| R2 | 91 | R10 | 77 |
| R3 | 95 | R11 | 77 |
| R4 | 79 | R12 | 60 |
| R5 | 80 | R13 | 83 |
| R6 | 86 | R14 | 98 |
| R7 | 84 | R15 | 74 |
| R8 | 61 | -- | -- |

### SPD



### TM-30



**Source Type:** LED
**Rf:** 82
**Colour Temperature:** 4000K
**Duv:** 0.0004

**Part Number:** Array Type
**Rg:** 93
**Chromaticity:** x=0.3805 y=0.3776

**CRI:** >80
**L90:** 50,000 Hrs.
**Colour Tolerance:** 5 SDCM

## ELECTRICAL SPECIFICATIONS

**Driver Manufacturer:** ARC Smart Electronic Co., Ltd.
**Input Frequency:** 50-60Hz
**Inrush Current:** 0.25A2S
**Driver MTBF:** 320,000hrs
**Dimming:** 1-10Vdc, (10% Min Light Level)
**Short Circuit Protection:** Auto recovery. The output recovers when short is removed.

**Driver Part Number:** ARC-DI-50I1000-MUV-D1R
**Fixture Draw:** 103.8W
**Power Factor at 120Vac:** >.90
**Max Operating Case Temperature:** 90C
**Dimming Current mA:** .5mA draw
**Driver Certifications:** c-RU-us Class 2, FCC Part 15 Class B, RoHS

**Input Voltage:** 347Vac
**Current Draw at 347Vac:** 0.2997
**THD at 120Vac(%):** <20%
**Surge Suppression:** Line to line 2kV, line to ground 4kV, IEC 61000-4-5
**Over Temperature Protection:** Auto recovery. The output recovers when the temperature returns to normal.

## PHYSICAL SPECIFICATIONS

**Finish Colour:** White
**Mounting:** Suspended with chain included
**Lens Type:** Frosted

**Finish Type:** Painted Steel
**Housing Material:** Steel
**Reflector Material:** Steel with UV Painting

**Wiring:** Rear Access Plate
**Lens Material:** Polycarbonate
**Entries:** Rear and end entries

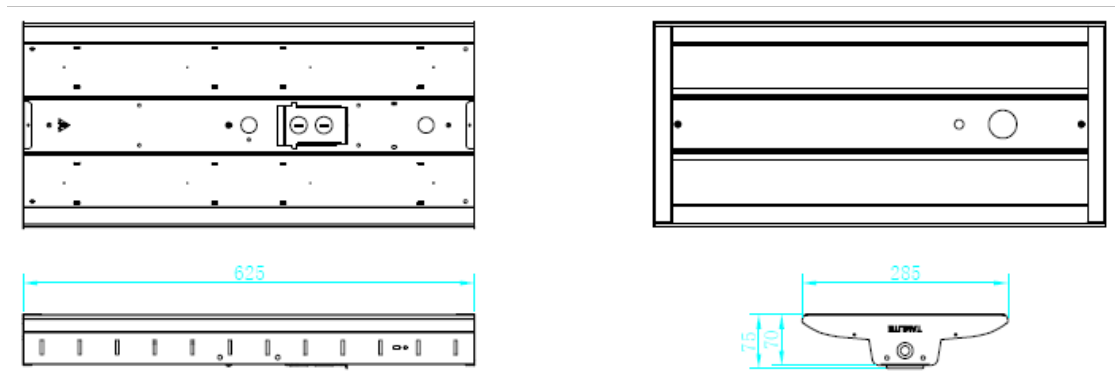## SHIPPING INFORMATION

**OrderingCode(s):** HBX10050K-347V
**Box Weight:** 5.5 kg

**Box Quantity:** 1

**Box Dimensions (L-W-H):** 655 x 295 x 85 mm

## LINE DRAWING

**Line Drawings**

**Series Architecture**

HBX -        -        -              -        -

| Part | Wattage | | CCT | | Mounting | | Voltage | | Finish | | Accessories | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HBX | 50 | 50W | 30K | 3000K | [Blank] | Suspended | UNV | 120-277 VAC | WH | White | O | Occupancy Sensor |
| | 100 | 100W | 40K | 4000K | SM | Surface Mount | 347 | 347 VAC | | | WG | Wire Guard |
| | 150 | 150W | 50K | 5000K | PM | Pendant Mount | WRV | 120-347 VAC | | | SM | Surface Mount Kit |
| | 200 | 200W | | | | | | | | | PM | Pendant Mount Kit |
| | | | | | | | | | | | C10 | 10 ft Cabtire Set |
| | | | | | | | | | | | OC-REM | PIR Programer |

**Optional Extras:** EM-HBOS, HBX100-WG, HBX-C10, HBX-SM, HBX-PM, HBX100-SLQ