









LED Sky Bay™

High efficiency LED Sky Bays™. Use anywhere you need exceptional light distribution for mounting heights up to 60 feet.

LIMITLESS OPTIONS for the following applications:

Warehouses

Commercial Facilities

Manufacturing Facilities

Aisles (Open and Stack)

Great Features/Benefits

- Energy-efficient Up to 54% energy savings compared to HID
- Instant on
- Long life: 50,000 hours
- Replaces traditional metal halide and linear fluorescent high bay systems
- Excellent color rendering
- Heavy duty 20 gauge housing is code grade steel

NOTE: Due to fixture construction, TCP advises against pendant mounting.

LED Sky Bay™

Features/Benefits

Up to 54% less energy than HID alternatives.	Instant energy savings.
Long 50,000 hour rated life.	Minimizes replacements & maintenance costs.
Very low heat generation.	Less energy wasted as heat.
Excellent color consistency & CRI.	Enhances color of focal point while maintaining uniformity throughout lighting installation.
UL approved for damp location.	Can be used outdoors when protected from elements. Withstands humidity indoors/outdoors.

Specifications

Input Line Voltage	120-277/347/480 VAC
Input Power	210W-250W for 120-277V (225W-270W for 347V & 480V)
Input Line Frequency	50/60HZ
Luminaire Life (Rated)	50,000 hours
Minimum Starting Temperature	-30°C
Maximum Operating Temperature	50℃
CRI	83
Power Factor	>90%
THD	<20%

Replacement Comparison

TYPE	WATTAGE	ENERGY SAVINGS (%)
TCP LED Sky Bay - 20,000L	210W	_
400W Metal Halide	458W	54%
6 Lamp T5HO	351W	40%
8 Lamp T8 HBF	293W	28%
TCP LED Sky Bay - 24,000L	250W	_
8 Lamp T5HO	482W	48%
400W Metal Halide	458W	45%
10 Lamp T8 HBF	366W	32%

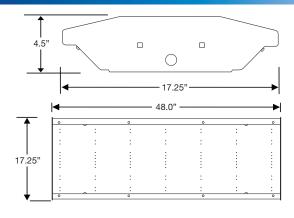


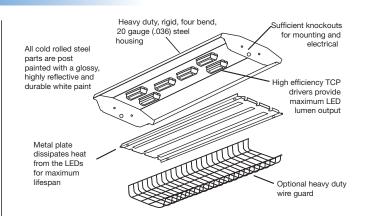






Dimensions and Mounting Data







TCPLED Sky Bay™

Applications

The TCP LED Sky Bay's superior lumen package is ideal for replacing traditional metal halide and linear fluorescent high bay systems. Benefits include high efficiency, excellent color rendering, long life, instant on, and improved uniformity. Suggested mounting heights from 30'-60' with primary applications including warehousing, commercial facilities, manufacturing facilities, open and stack aisle applications.

Construction

The full body assembly features TCP high efficiency drivers and high output LEDs. The LED Sky Bay's heavy duty 20 gauge housing and 8 gauge wire guard is code gauge steel and all components, excluding the wire guard, have a baked white enamel finish that is electrostatically applied and post painted with a glossy, highly reflective and durable white paint.

Electrical

TCP high efficiency drivers are Class 2 rated, UL/cUL listed, and provide consistent power to ensure even lighting from the long life LEDs. Each driver is matched to a light engine to deliver 50,000 hours life. Our drivers are tightly secured by mounting bolts.

Optics

The optional impact resistant acrylic diffuser comes in one style. The prismatic wraparound lens is designed to be used with the wire guard or on its own without the wire guard.



Installation

Suspension by chain, cable, or hook with appropriate accessories.

Warranty

Five year limited warranty against defects in manufacturing.

Listings

UL/cUL Listed – damp location rated Design Lights Consortium (DLC) Qualified Products List RoHS Compliant

Lumen Maintenance

Lumen Maintenanc			
36,000 hours ¹	50,000 hours ²	100,000 hours ²	L ₇₀ (hours) ²
92.62%	90.21%	82.1%	185,000

¹ IESNA TM-21-11 projected value based on 6X IESNA LM-80-08 total test duration of 6,000 hours. ² IESNA TM-21-11 calculated value exceeds 6X IESNA LM-80-08 total test duration of 6,000 hours.

Catal	Catalog Ordering Matrix Example: TCPSB4UNI2041K											
TCP	SB4											
BRAND	FAMILY VOLTAGE		CONTROLS/DIMMING LUMEN PACKAGE (Power		COLOR TEMPERATURE	OPTIONS						
TCP	SB4 – 4' LED Sky Bay	UNI – 120V-277V 347 – 347V 480 – 480V	(blank) – Non Dimming	20 – 20,000 Lumens (210W) 24 – 24,000 Lumens (250W)		(see below)						

¹ Approximate lumen output. Actual performance may vary based on CCT, options selected and end user application.

OPTIONS (Add to catalog number in order shown)

POWER CORDS

6C - 6' PCord 300V 16/3 SJTOOW NO PLUG 6C4 - 6' PCord 300V 18/4 SJTOW NO PLUG 6W - 6' WHIP PCord 600V 16/3 NO PLUG 10C - 10' PCord 277V SJTOOW NO PLUG

10C6 - 10' PCord 600V 15A 16/3 STOW NO PLUG **20C** - 20' PCord 277V 20A 16/3 SJTOOW NO PLUG **20C4** - 20' PCord 300V 18/4 SJTOW NO PLUG

OCCUPANCY SENSORS

TS1 - TCP Occupancy Sensor w/bracket and interchangeable lenses, 40' or less, 120V, 277V, or 347V.

TS1C - TCP Cold Storage Occupancy Sensor w/bracket and interchangeable lenses, 40' or less, 120V, 277V, or 347V. - TCP Occupancy Sensor w/bracket and interchangeable lenses, 40'

or less, 480V. TS4C - TCP Cold Storage Occupancy Sensor w/bracket and interchangeable lenses, 40' or less, 480V.

WIRE GUARD / LENS

WG - Wire Guard PWL - Prismatic Lens

SPECIAL PACKAGING

SP - Single Packed

AVAILABLE HANGING KITS (ordered separately)

EZHANGER - 15' adjustable aircraft cable hanging kit

AVAILABLE ACCESSORIES (ordered separately)

Wire Guard kit complete with Wire Guard and hardware (for use with lens)

ELITELENS - Acrylic Lens

² 20,000L: 210W for 120-277V and 225W for 347V & 480V. 24,000L: 250W for 120-277V and 270W for 347V & 480V. Actual performance may vary based on options selected and end user application

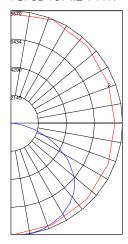
^{*} Due to fixture construction, TCP advises against pendant mounting

LED Sky Bay™

Photometric Reports

Luminous Intensity Distribution Diagram

TCPSB4UNI2441K



Maximum Candela = 8579.16 Located At Horizontal Angle = 270, Vertical Angle = 20.5

1 - Vertical Plane Through Horizontal Angles (270 - 90) (Through Max. Cd.)

2 - Horizontal Cone Through Vertical Angle (20.5) (Through Max. Cd.)

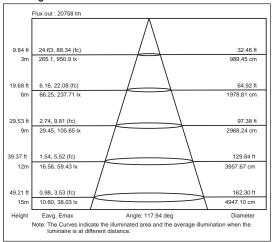
Zonal Lumen Summary											
Zone	Lumens	% Lamp	% Fixture								
0-30	6876.7	N.A.	25.60								
0-40	11525.64	N.A.	42.90								
0-60	21186.89	N.A.	78.80								
0-90	26829.11	N.A.	99.80								
90-120	26.65	N.A.	0.10								
90-130	34.96	N.A.	0.10								
90-150	48.14	N.A.	0.20								
90-180	55.71	N.A.	0.20								
0-180	26884.83	N.A.	100.00								
Total Luminaire Efficiency = N.A.%											

Average Luminance

(Candelas / Square Meter)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	15325	16495	17547
55	15095	16491	17373
65	14376	15743	15982
75	10229	13227	12701
85	191	1530	5260

AAI Figure

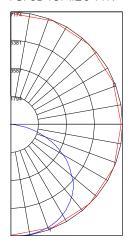


Coefficient of Utilization Table Effective Floor Cavity Reflectance = 20%

RC RW	70 50	30 10	70 70 50	30 10	50 50 50 30 10	50 30 10	50 30 10	0
0	119 119	119 119	116 116	116 116	111 111 111	106 106 106	102 102 102	100
1	109 104	100 96	106 102	98 95	98 94 92	94 91 89	90 88 86	84
2	99 91	84 78	96 89	82 77	85 80 75	82 77 73	79 75 72	70
3	90 79	71 64	87 78	70 64	75 68 63	72 66 61	69 64 60	58
4	82 70	61 54	80 69	60 54	66 59 53	64 57 52	61 56 51	49
5	75 62	53 46	73 61	52 46	59 51 46	57 50 45	55 49 44	42
6	69 56	47 40	67 55	46 40	53 45 40	51 44 39	50 44 39	37
7	64 50	42 35	62 50	41 35	48 40 35	47 40 35	45 39 34	32
8	60 46	37 31	58 45	37 31	44 36 31	43 36 31	41 35 31	29
9	56 42	34 28	54 41	33 28	40 33 28	39 32 28	38 32 27	26
10	52 39	31 25	51 38	30 25	37 30 25	36 30 25	35 29 25	23

Luminous Intensity Distribution Diagram

TCPSB4UNI2041K



Maximum Candela = 7174.12 Located At Horizontal Angle = 315, Vertical Angle = 4

1 - Vertical Plane Through Horizontal Angles (315 - 135) (Through Max. Cd.)

2 - Horizontal Cone Through Vertical Angle (4) (Through Max. Cd.)

Zonal Lumen Summary										
Zone	Lumens	% Lamp	% Fixture							
0-30	5753.95	N.A.	25.50							
0-40	9650.1	N.A.	42.80							
0-60	17766.98	N.A.	78.90							
0-90	22479.78	N.A.	99.80							
90-120	21.07	N.A.	0.10							
90-130	27.42	N.A.	0.10							
90-150	38.52	N.A.	0.20							
90-180	44.99	N.A.	0.20							
0-180	22524.77	N.A.	100.00							
Total Luminaire Efficiency = N.A.%										

AAI	Figure		
	Flux out : 17407 lm		
		\wedge	
9.84 ft	20.65, 74.07 (fc)		32.75 ft
3m	222.30, 797.30 lx		998.29 cm
19.68 ft	5.16, 18.51 (fc)		65.43 ft
6m	55.56, 199.26 lx		1994.14 cm
29.53 ft	2.29, 8.23 (fc)		98.14 ft
9m	24.69, 88.56 lx		2991.42 cm
39.37 ft	1.29, 4.63 (fc)		130.86 ft
12m	13.89, 49.82 lx		3988.65 cm
49.21 ft	0.83, 2.96 (fc)		163.58 ft
15m	8.89, 31.88 lx		4985.88 cm
Height	Eavg, Emax Note: The Curves indic luminaire is at dif	Angle: 117.94 deg cate the illuminated area and the average illum fferent distance.	Diameter ination when the

Coefficient of Utilization Table Effective Floor Cavity Reflectance = 20%

RC RW		30 50	30	10	70	70 50	30	10	50	50 30	10	50	30 30	10	50	10 30	10	0
0	119 1	19	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109 10	04	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	84
2	99 9	91	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90 7	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58
4	82 7	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	51	49
5	75 6	32	53	46	73	61	52	46	59	51	46	57	50	45	55	49	44	42
6	69 5	6	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64 5	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60 4	16	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56 4	12	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	26
10	52 3	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

Average Luminance

(Candelas / Square Meter)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	9678	10055	11409
55	9553	10028	11206
65	9149	9714	10335
75	6210	6490	8182
85	129	375	3359