



Catalog Number **TCPRADIANT100H**

Notes

Type



## Radiant LED Luminaire

### Application

TCP's Radiant LED Luminaire is designed for applications that require a fixture with a high light output, long life, and low maintenance requirement. This includes parking garages, warehouses, gymnasiums, large retail, stairwells, building facades, and other similar applications.

### Description

This LED luminaire was designed for optimum performance and is a more efficient alternative to incandescent, metal halide, and linear lamps. The Radiant LED Luminaire is easy to install with a 3/4" NPT mount, and has a long life, making it perfect for hard to reach areas.

### Radiant LED Luminaire

#### Installation

Surface ceiling mount.  
Before installation, please consult your local ordinances and building codes for compliance.

#### Warranty

Five years against defects in manufacturing.

#### Listing

Pending, driver is UL listed

### Construction

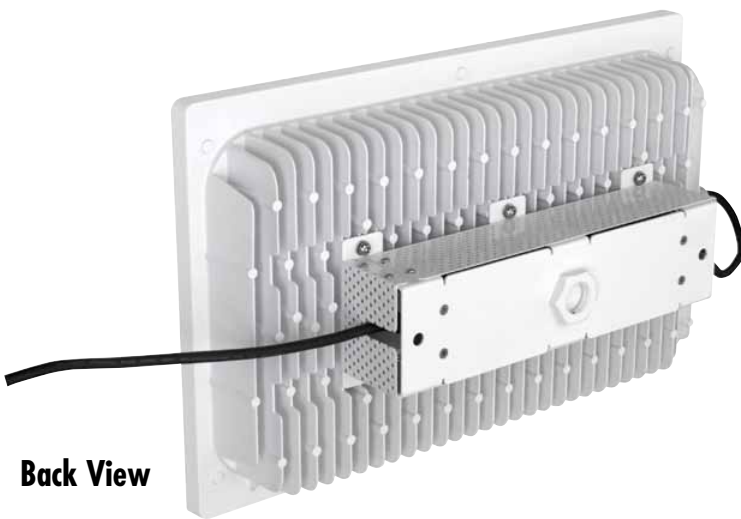
TCP's Radiant LED Luminaire uses 100 High-Power LumiLED Rebel LEDs. It is constructed from die cast aluminum, which is powder coated in a durable white finish. The bottom is protected by 4mm tempered glass. It is 20.5" long, 13.25" wide, and 6.25" tall, and weighs 29.3 pounds. It has an IP65 weather rating

### Electrical

The driver is UL listed, has a power factor of 0.99, and an input voltage of 120-277 VAC (50/60 Hz). The Luminaire is rated at 150 watts, with a THD of less than 10%. Electrical protections include OVP, OCP, SCP, and OTP.

### Performance

- LED Life: 50,000 hrs
- CCT: White 5500°K (Other color temperatures available upon request)
- CRI: 71
- Total Lumen Output: 11090 (IESNA LM-79-08 Test Procedure)
- Lumens Per Watt: 78.0
- Coverage: Type V
- Operating Temperature: -20°F ~ 140°F

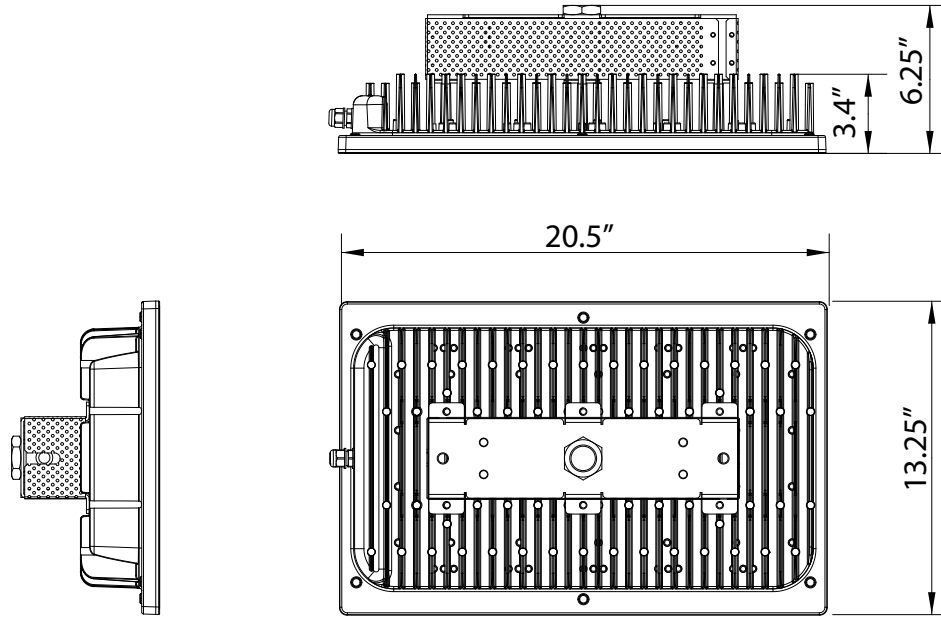


Back View

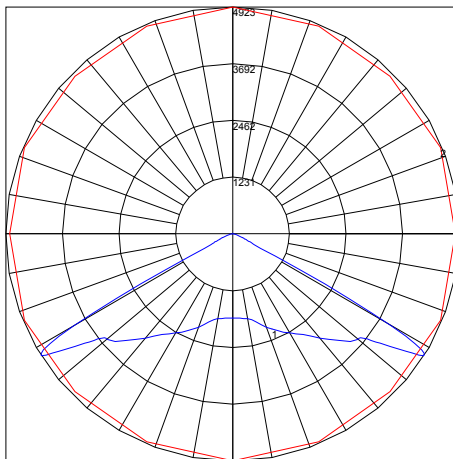


# Radiant LED Luminaire

## Dimensions & Construction



## Photometric Report



Maximum Candela = 4923 Located At Horizontal Angle = 90, Vertical Angle = 57.5  
 # 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
 # 2 - Horizontal Cone Through Vertical Angle (57.5) (Through Max. Cd.)

### Candela Distribution

Effective Floor Cavity Reflectance 0.20

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	0
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	93	90	91	89	88	86
2	100	91	85	79	97	90	83	78	86	81	76	83	79	75	80	76	73	71
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	60	55	50	48
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40
6	67	53	44	37	65	52	43	37	50	42	36	48	41	36	47	41	36	33
7	61	47	38	31	60	46	37	31	45	37	31	43	36	31	42	35	30	28
8	57	42	33	27	55	41	33	27	40	32	27	39	32	26	38	31	26	24
9	52	38	29	23	51	37	29	23	36	29	23	35	28	23	34	28	23	21
10	49	35	26	21	47	34	26	20	33	25	20	32	25	20	31	25	20	18

### Zonal Lumen Summary

Zone	Lumens	%Fixt
0-30	1843.93	16.60
0-40	3592.58	32.40
0-60	10012.27	90.30
0-90	11090.39	100.00
90-120	0.00	0.00
90-130	0.00	0.00
90-150	0.00	0.00
90-180	0.00	0.00
0-180	11090.39	100.00
Total Luminaire Efficiency = N.A. %		

### Luminance Data in Candela/Square Meter

Angle in Degrees	0° Avg.	45° Avg.	90° Avg.
45	41989	44415	44613
55	74694	77320	72099
65	8374	8883	9521
75	4430	4074	4243
85	1747	1344	1269

### Photometric Report

Spacing Criterion (0-180)	2.42
Spacing Criterion (90-270)	2.44
Total Input Watts (120V)	142.20
Total Lumen Output	11090.00
Luminaire Efficacy Rating (LER)	78.00

Photometric Data by  
 Independent Testing Lab.  
 ITL Boulder.