

High efficiency garage / canopy light that replaces up to a 250W metal halide fixture thus providing 70% energy savings, reduced maintenance costs and longer fixture life. Easy installation system facilitates a quick one-man install.



### APPLICATIONS

**Ideal for commercial and industrial parking garages and canopies.**

<b>Project</b>	
<b>Type</b>	
<b>Date</b>	
<b>Notes</b>	

### SPECIFICATIONS

#### Construction

Rugged die cast aluminum housing with mounting bracket for easy installation. Fixture has a custom designed prismatic polycarbonate lens and reflector for optimal light distribution. Unit has air-flow fins around its perimeter for efficient thermal flow and extended fixture life. The fixture has an operating temperature range of -40°C to +40°C.

#### Optics

The unit has 6 high efficiency LED modules that are precision molded creating a DLC approved Type 5 beam distribution ideal for parking garages. The LEDs have a colour temperature of 5000K as standard and deliver 7204 lumens at an efficacy of 91 lumens per watt.

#### Dimming

0 – 10V dimming is optional.

#### Mounting

The fixture is available as a surface mount. It can also be pendant mounted. Fixture is securely hinged onto mounting bracket allowing use of both hands while making connections. In the case of the pendant mount, standard 1/2" or 3/4" pendants can be used. 12" supply lead length is standard. Contact Customer Service for custom pendant configurations.

#### Electrical

Total system wattage of the unit is 79W. The standard unit has a high efficiency driver that operates at 120 - 277V. 347V drivers are also available. 2.5kV surge protection is standard.

#### Finish

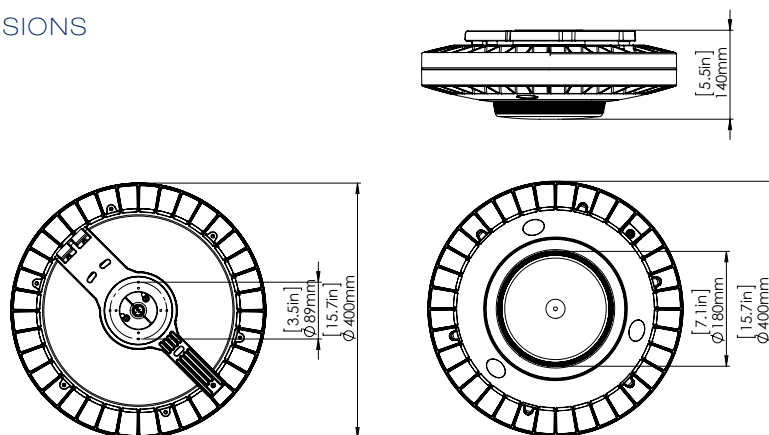
Standard finish is Bronze. White finish is available as an option.

#### Options

- 12"/18" pendant stem
- 36" supply lead
- Ball aligner
- 10kV surge protector.

<b>Equivalent to</b>	<b>up to 250W MH</b>
<b>Fixture Watts</b>	<b>79W</b>
<b>Lumens</b>	<b>7204 lumens</b>
<b>Efficiency</b>	<b>91 lumens/watt</b>
<b>Rated Life</b>	<b>100,000 hours</b>
<b>Certification</b>	<b>cULus, DLC, IP65,</b>
<b>LED Life</b>	<b>100,000 hours</b>
<b>Colour Temperature</b>	<b>5000K (standard), 4000K (option)</b>
<b>Warranty</b>	<b>5 Years</b>
<b>Operating temperature</b>	<b>-40°C to +40°C</b>

### DIMENSIONS



## INSTALLATION INFORMATION

1. Separate mounting bracket from fixture by removing the screw. Attach mounting bracket to the junction box.



2. Rest fixture onto hinges and connect wires



3. Reattach fixture to the mounting bracket



## PHOTOMETRICS

### INDOOR PHOTOMETRIC REPORT

CATALOG: GARAGE-LED80-B-5K-T5-SM

MANUFACTURER: RAB DESIGN LIGHTING INC. TORONTO, ONTARIO  
TEST #: J937C  
TEST LAB: LUMENTRA, INC. 160 FROBISHER DRIVE, UNIT 5 WATERLOO, ONTARIO N2L 6P6  
CODE 500084-0  
CATALOG: GARAGE-LED80-B-5K-T5-SM  
DESCRIPTION: RAB DESIGN LIGHTING GARAGE LED LUMINAIRE WITH SPECULAR REFLECTOR AND PRISMATIC LENS  
LAMP: SIX WHITE ARRAY LEDS. LUMEN OUTPUT = 7204 LMS.  
LAMP OUTPUT: TOTAL LUMINAIRE LUMENS: 7211.2, **ABSOLUTE PHOTOMETRY \***  
INPUT WATTAGE: 79.3  
LUMINOUS OPENING: VERTICAL CYLINDER (DIA : 0.17M, H: 0.03M)  
CIE Class: DIRECT  
Max Cd: 1,741.0 AT HORIZONTAL: 0°, VERTICAL: 60°  
Spacing Criterion: @ 0 = 2.39 / @ 90 = 2.39

### COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

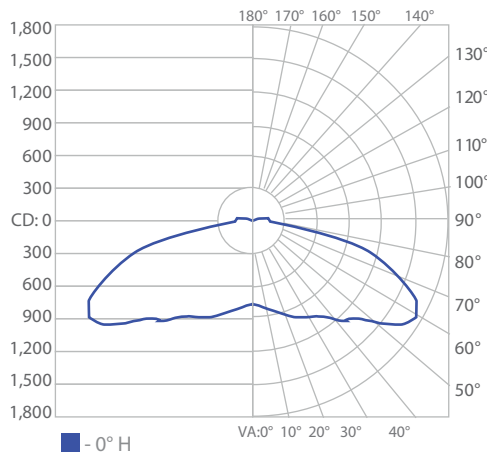
Effective Floor Cavity Reflectance: 20%

RCC %:	80				70				50				30				10			
RW %:	20	50	30	0	20	50	30	0	50	30	20	0	50	30	20	0	50	30	20	0
RCR: 0	1.18	1.18	1.18	1.18	1.15	1.15	1.15	1.15	1.09	1.09	1.09	1.04	1.04	1.04	1.04	0.99	0.99	0.99	0.99	0.97
1	1.04	.97	.92	.86	1.01	.95	.89	.74	.90	.85	.81	.85	.81	.78	.81	.78	.81	.78	.75	.73
2	.91	.81	.72	.64	.88	.78	.70	.56	.74	.67	.61	.70	.64	.59	.66	.61	.57	.54	.54	.54
3	.81	.68	.57	.49	.78	.66	.56	.44	.62	.54	.47	.59	.52	.46	.55	.49	.44	.42	.42	.42
4	.73	.58	.47	.39	.70	.56	.46	.35	.53	.44	.37	.50	.42	.36	.47	.41	.35	.33	.33	.33
5	.66	.50	.39	.31	.63	.49	.39	.28	.46	.37	.30	.44	.36	.30	.41	.34	.29	.26	.26	.26
6	.60	.44	.34	.26	.57	.43	.33	.24	.41	.32	.25	.38	.31	.25	.36	.29	.24	.22	.22	.22
7	.55	.39	.29	.22	.53	.38	.29	.20	.36	.28	.21	.34	.27	.21	.33	.26	.20	.18	.18	.18
8	.51	.35	.25	.19	.49	.34	.25	.17	.33	.24	.18	.31	.23	.18	.29	.23	.17	.15	.15	.15
9	.47	.32	.23	.16	.45	.31	.22	.15	.30	.22	.16	.28	.21	.16	.27	.20	.15	.13	.13	.13
10	.44	.29	.20	.14	.42	.28	.20	.13	.27	.19	.14	.26	.19	.14	.25	.18	.13	.11	.11	.11

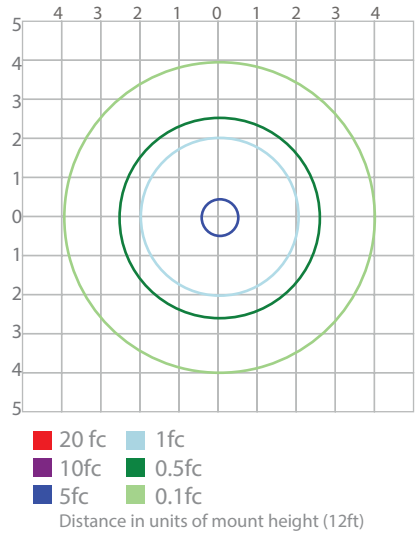
LUMENS PER ZONE				
Zone	Lumens	% Total	Zone	Lumens % Total
0-10	77.0	1.1%	90-100	145.5 2%
10-20	248.1	3.4%	100-110	97.2 1.3%
20-30	451.2	6.3%	110-120	1.4 0%
30-40	679.8	9.4%	120-130	0 0%
40-50	1,006.9	14.0%	130-140	0 0%
50-60	1,460.3	20.3%	140-150	0 0%
60-70	1,595.4	22.1%	150-160	0 0%
70-80	1,119.1	15.5%	160-170	0 0%
80-90	329.3	4.6%	170-180	0 0%

ZONAL LUMEN SUMMARY		
Zone	Lumens	% Luminaire
0-30	776.3	10.8%
0-40	1,456.1	20.2%
0-60	3,923.3	54.4%
60-90	3,043.8	42.2%
70-100	1,593.8	22.1%
90-120	244.1	3.4%
0-90	6,967.1	96.6%
90-180	244.1	3.4%
0-180	7,211.2	100%

### Polar Candela Distribution



### Iso footcandle Plot



## ORDERING GUIDE

<b>GAR</b>	-	<b>LED78</b>	-		-		-		-			
		<b>VOLTAGE</b>	<b>COLOUR TEMP</b>		<b>BEAM</b>		<b>FINISH</b>		<b>MOUNT</b>		<b>OPTIONS</b>	
		<b>B - 120 - 277V*</b>	<b>5K - 5000K*</b>		<b>T5 - TYPE 5*</b>		<b>BRZ- Bronze*</b>		<b>SM - Surface Mount*</b>		<b>SL12 - 12" Supply lead*</b>	
		<b>C - 347V</b>	<b>4K - 4000K</b>				<b>WHT - White</b>		<b>PM - Pendant Mount</b>		<b>SL36 - 36" Supply lead</b>	
											<b>PS12 - 12" Pendant Stem</b>	
											<b>PS18 - 18" Pendant Stem</b>	
											<b>BA - Ball Aligner</b>	
											<b>10SP - 10 KV Surge Protector</b>	

\* Standard configuration