



Simkar's Reflect-A-Bay™ Gen2 offering is the perfect complement to our broad offering of industrial high bay products. Incorporating our unique spring latch, swing down, one piece reflector system, the RG2 fluorescent high bay is offered in both T5HO or T8 in four, and six lamp configurations. Coupled with a wide array of options and accessories, RG2 is the perfect choice for manufacturing, warehouse, retail or institutional applications, for new installations or retrofits.

Project \_\_\_\_\_  
 Catalog Number \_\_\_\_\_  
 Type \_\_\_\_\_  
 Date \_\_\_\_\_

- Spring loaded latches secure one-piece reflector for swing down access into ballast chamber for toolless wiring
- Energy efficient – up to 50% energy savings vs. HID
- Chain, pendant, cable, hook, and surface mounting options

- Choice of reflectors: high specular aluminum with narrow distribution, or white for wide distribution applications
- T5HO and T8 versions with 4 or 6 lamps
- Operating range up to 131° F (55° C).

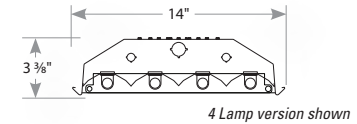


**HOUSING** Die-formed heavy gauge steel housing with high-gloss baked white enamel finish over rust inhibiting phosphate coat. Die-formed steel end caps with center 7/8" KOs, and (2) 1/2" KOs, attaching via center interlocking tab into housing, secured by 2 screws. Smooth housing edges for ease of handling. Quick access plate located in center of housing.

**SENSORS** RG2 can be specified with PIR (Passive Infrared) occupancy sensors or daylight sensors. Title 24 compliant sensors available.

**OPTICS** Lamp tray combines sockets and reflectors; three reflector material options are available. Two distributions available; white reflector (wide distribution) and 87% reflective specular aluminum reflector (narrow distribution). 95% reflective specular aluminum reflector optional.

**ACCESS / WIRING** Center quick access plate on top of unit features 7/8" KO and allows access to ballast disconnect(s). Two 1/2" KOs and one 7/8" KO per end cap. Reflector tray and optional lens feature toolless, spring-loaded quick-release latches that allow reflector and optional lens to swing down independently to access ballast chamber.



**ELECTRICAL** Fully wired for 120-277V, 60 Hz AC operation with ETL-CBM, thermally protected, automatic resetting, Class P, sound rated A, programmed-start, electronic T5 HO or instant start T8 ballast. CEE and NEMA Premium T8 ballasts also available. The 4 lamp unit contains (1) 4-lamp ballast as standard. The 6 lamp unit contains (1) 2-lamp and (1) 4-lamp ballast. Rotolock sockets. Units suitable for ambient temperatures up to 131° F (55° C).

**MOUNTING** Recommended mounting heights up to 50 feet. Pendant, slide box, chain, hook, and aircraft cable configurations available. May be surface mounted via slide box.

**LISTINGS** UL Listed damp location.



T5 T8

Reflect-A-Bay Gen2 Linear Fluorescent High Bay Configuration

SERIES	# LAMPS	LAMP TYPE*	REFLECTOR	BALLAST**	SWITCHING	VOLTAGE
RG2	4	32 = 32W T8 48"	SR = Specular aluminum 87% reflectivity (standard) WR = White MR = Specular aluminum 95% reflectivity	E = Electronic T8 HE = Electronic T5HO PS(x)** = T8 only, program start (L) = Low BF (N) = Normal BF (H) = High BF HP(x)** = T8 only, high performance (L) = Low BF (N) = Normal BF (H) = High BF CS = Customer supplied B9 = Customer specified	<i>FOR 4 LAMP UNITS</i> 4L = (1) 4 Lamp ballast 22L = (2) 2 Lamp ballasts  <i>FOR 6 LAMP UNITS</i> 4L2L = (1) 4 Lamp ballast & (1) 2 Lamp ballast 23L = (2) 3 Lamp ballast 32L = (3) 2 Lamp ballast	U1 = 120-277V 34 = 347V 48 = 480V
	6	54 = 54W T5HO 46"				

\*Nominal. See performance table for actual power consumption. Tube guards are NOT recommended on T5 lamps.  
 \*\*CEE Listed; for NEMA Premium, and for detailed ballast information, please contact factory

OPTIONS	EMERGENCY OPTIONS	ACCESSORIES	MOUNTING ACCESSORIES
<b>BP</b> = Bulk pack <b>FB</b> = Fast blow fuse <b>SB</b> = Slow blow fuse SENSORS (FACTORY WIRED; SEE SWITCHING; FOR DAYLIGHT HARVESTING, PLEASE CONTACT FACTORY) <b>OS(x)</b> = PIR Occupancy sensor (specify # of lamps controlled - 2, 4, or 6) <b>OSPC(x)</b> = PIR Occupancy sensor with photocontrol (specify # of lamps controlled - 2, 4, or 6)  <i>6' CORD AND PLUG</i> <b>CPT(x)</b> : 1 = 120V, (L5-15P); 2 = 277V, (L7-15P) 3 = 208V, (L6-15P); 4 = 240V, (L6-15P) 5 = 480V, (L8-20P); <b>CP3</b> = Cord & plug-120V straight blade 5-15P <b>C6</b> = 6' Cord (Cord only); <b>C10</b> = 10' Cord (Cord only)  <b>Lamps (installed):</b> (x) specify series (7 = 700, 8 = 800) (y) specify color (35, 41, 50)  *For OS to control 2L, need correct ballast configuration	<b>ELS1</b> = 500 lumens (T8 only) <b>ELS2</b> = 700 lumens <b>ELS3</b> = 1400 lumens	<i>4 LAMP UNITS</i> <b>RG2F4</b> = Frosted acrylic flat lens <b>RG2C4</b> = Clear acrylic flat lens <b>RG2WG4</b> = Wire guard  <i>6 LAMP UNITS</i> <b>RG2F6</b> = Frosted acrylic flat lens <b>RG2C6</b> = Clear acrylic flat lens <b>RG2WG6</b> = Wire guard  Note: Wire Guards can be installed in conjunction with Lenses.  Note: Tube guards not recommended for use with T5HO lamps.	<b>CA24</b> = Chain hanger assembly: (2) 18" chains, (2) v-hooks, (2) s-hooks; 24" total drop <b>CS24</b> = S-hook chain hanger assembly: (4) 18" chain & (4) s-hooks; 24" total drop <b>RG2SBH</b> = Center slide box with hook assembly <b>RG2SBP</b> = Center slide box for single pendant mount or surface mount <b>SP(x)</b> = Swivel pendant mount; white stem; specify length: (24" / 36" / 48" / 60" / 72") (Used with <b>RG2SBP</b> ) <b>PM2(X)</b> = Twin pendant mount, (2) white stems (without canopies); specify length (24" / 36" / 48" / 60" / 72") <b>HKSC</b> = Hook & chain assembly; includes (4) 31.5" chains, mounting plate, and hook <b>CAB(X)72</b> = Adjustable aircraft cables; specify "2" for (2) cables joined with Y hanger, or "4" for (4) individual 72" cables; includes toolless adjusters and mounting hardware



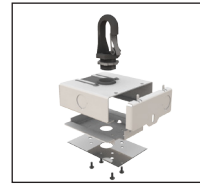
**Mounting Accessories**



**CA24**  
Chain hanger (2) assembly



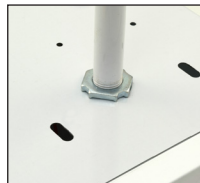
**HKSC**  
Hook & chain assembly



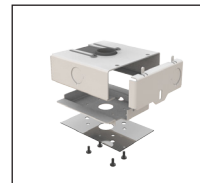
**RG2SBH**  
Center mount slide box w/hook assembly



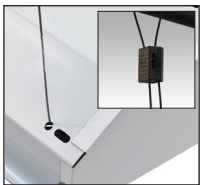
**CS24**  
"S" Hook (4) Chain hanger assembly



**PM2(x)**  
Twin pendant mount  
*SEE ORDERING INFO*



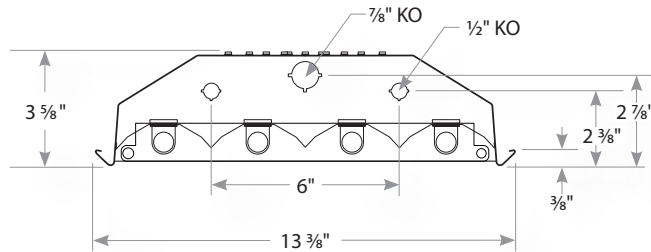
**RG2SBP**  
Center mount slide box for single pendant or surface mount



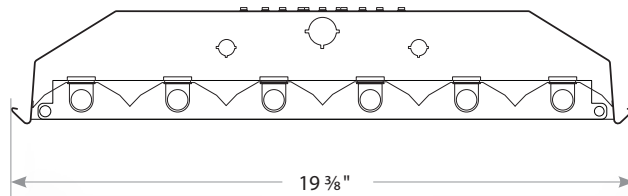
**CAB(x)72**  
Adjustable aircraft cables  
*SEE ORDERING INFO*

**Dimensions**

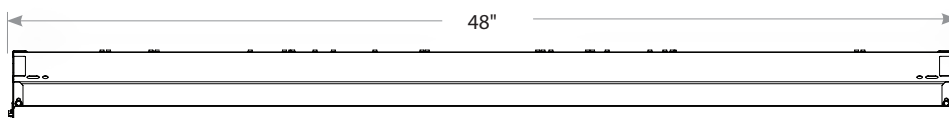
RG2 - 4 Lamp



RG2 - 6 Lamp



RG2 - 4 & 6 Lamp



**Photometric Data**

*Luminaire Data - 54W White Reflector*

Catalog Number	RG2454WRHEU1
Lab Test#	UL1018378
Lamp(s)	(4) 54W T5
Lumens per lamp	4450
Ballast	Philips Advance Centium ICN-4S54-90C-2LS-G
Ballast Factor	1.00
Input Watts	228.9
Fixture Lumens	16,015
Fixture Efficiency	90.0%

*Utilization of Lumens*

CC Wall	80				50			30		
RCR	70	50	30	10	50	30	10	50	30	10
0	19052	19052	19052	19052	17771	17771	17771	17008	17008	17008
1	17042	16122	15298	14556	15042	14418	13845	14395	13883	13408
2	15264	13729	12459	11391	12816	11826	10970	12267	11436	10706
3	13760	11843	10360	9178	11073	9888	8913	10607	9594	8743
4	12497	10356	8788	7590	9705	8426	7414	9311	8200	7300
5	11425	9161	7579	6412	8611	7297	6289	8276	7119	6210
6	10504	8184	6628	5511	7717	6403	5423	7432	6260	5365
7	9706	7374	5864	4805	6976	5682	4739	6731	5566	4696
8	9011	6696	5240	4240	6354	5091	4190	6144	4996	4158
9	8402	6121	4724	3781	5826	4601	3742	5644	4522	3717
10	7864	5630	4292	3402	5374	4189	3371	5216	4123	3351

Zonal cavity method Effective floor reflectance = 20%

*Zonal Lumens and Percentages*

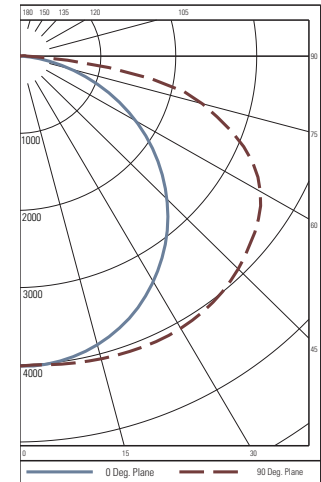
ZONE	LUMENS	% LUMINAIRE
0-40	5582.3	34.9
0-60	10873.2	67.9
0-90	15980.6	99.8
90-180	34.4	0.2

*Luminance Summary (Candela/M<sup>2</sup>)*

ANGLE	0-DEG	45-DEG	90-DEG
0	10830	10830	10830
45	10240	13120	14900
55	9808	14580	17330
65	9024	17310	20750
75	7495	21150	24950
85	4046	21140	18700

SC: 0-180: 1.26  
90-270: 1.53

*Candela Plot*



**Photometric Data**

*Luminaire Data - 54W Specular Reflector*

Catalog Number	RG2454MRHEU1
Lab Test#	UL1108371
Lamp(s)	(4) 54W T5
Lumens per lamp	4600
Ballast	Philips Advance Centium ICN-4S54-90C-2LS-G
Ballast Factor	1.00
Input Watts	237.5
Fixture Lumens	16,900
Fixture Efficiency	91.8%

*Utilization of Lumens*

CC Wall	80				50			30		
RCR	70	50	30	10	50	30	10	50	30	10
0	20117	20117	20117	20117	18776	18776	18776	17977	17977	17977
1	18386	17582	16861	16211	16478	15937	15441	15817	15376	14968
2	16773	15399	14263	13307	14481	13602	12841	13929	13194	12549
3	15353	13608	12257	11181	12840	11767	10883	12376	11462	10694
4	14120	12140	10691	9584	11496	10318	9386	11105	10085	9258
5	13043	10924	9443	8350	10381	9154	8214	10050	8972	8125
6	12097	9903	8430	7374	9442	8201	7276	9160	8056	7213
7	11262	9037	7595	6584	8644	7410	6512	8402	7293	6466
8	10523	8296	6896	5934	7959	6746	5880	7752	6650	5845
9	9866	7658	6305	5392	7367	6181	5351	7187	6102	5323
10	9280	7103	5801	4934	6851	5697	4901	6695	5631	4880

Zonal cavity method Effective floor reflectance = 20%

*Zonal Lumens and Percentages*

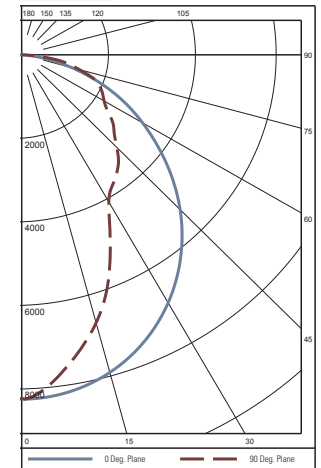
ZONE	LUMENS	% LUMINAIRE
0-40	8303	49.1
0-60	13390	79.2
0-90	16900	100.0
90-180	0	0.0

*Luminance Summary (Candela/M<sup>2</sup>)*

ANGLE	0-DEG	45-DEG	90-DEG
0	22140	22140	22140
45	19650	11690	11870
55	18070	11150	11610
65	16290	10720	13060
75	12580	13060	14590
85	1191	12450	12230

SC: 0-180: 1.23  
90-270: 1.23

*Candela Plot*



**Photometric Data**

*Luminaire Data - 54W White Reflector*

Catalog Number	RG2654WRU1
Lab Test#	UL1051970
Lamp(s)	(6) 54W T5
Lumens per lamp	4450
Ballast	(1) Phillips Advance Centium ICN-4S54-90C-2LS-G and (1) Philips Advance Centium ICN-2S54-90C-N
Ballast Factor	1.00
Input Watts	354.7
Fixture Lumens	24,250
Fixture Efficiency	90.8%

*Utilization of Lumens*

CC Wall	80				50			30		
RCR	70	50	30	10	50	30	10	50	30	10
0	28853	28853	28853	28853	26902	26902	26902	25740	25740	25740
1	25678	24230	22933	21764	22577	21592	20689	21586	20777	20028
2	22946	20557	18580	16918	19157	17614	16281	18314	17019	15881
3	20656	17692	15398	13571	16510	14677	13167	15795	14228	12910
4	18746	15448	13033	11189	14450	12480	10920	13844	12133	10747
5	17131	13654	11225	9432	12811	10792	9245	12297	10519	9124
6	15745	12192	9807	8096	11475	9461	7960	11037	9242	7871
7	14547	10982	8671	7051	10370	8391	6950	9995	8213	6883
8	13506	9970	7746	6218	9445	7517	6141	9122	7370	6090
9	12592	9112	6981	5542	8660	6791	5481	8381	6669	5441
10	11788	8380	6341	4984	7988	6182	4936	7745	6080	4904

Zonal cavity method Effective floor reflectance = 20%

*Zonal Lumens and Percentages*

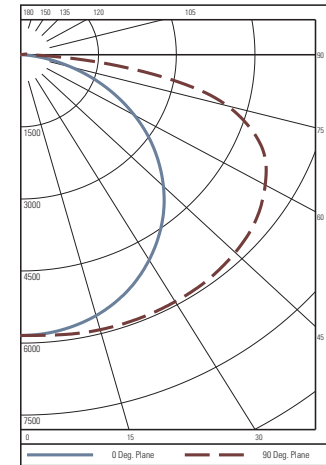
ZONE	LUMENS	% LUMINAIRE
0-40	8115	33.5
0-60	14543	65.8
0-90	24170	99.7
90-180	81	0.3

*Luminance Summary (Candela/M<sup>2</sup>)*

ANGLE	0-DEG	45-DEG	90-DEG
0	10340	10340	10340
45	9707	12560	14570
55	9278	14250	17300
65	8495	17350	21710
75	6951	23350	28110
85	3705	25020	24770

SC: 0-180: 1.25  
90-270: 1.25

*Candela Plot*



**Photometric Data**

*Luminaire Data - 54W Specular Reflector*

Catalog Number	RG2654SRHEU1
Lab Test#	UL1108370
Lamp(s)	(6) 54W T5
Lumens per lamp	4600
Ballast	(1) Phillips Advance Centium ICN-4S54-90C-2LS-G and (1) Philips Advance Centium ICN-2S54-90C-N
Ballast Factor	1.00
Input Watts	358.4
Fixture Lumens	25,610
Fixture Efficiency	92.8%

*Utilization of Lumens*

CC Wall	80				50			30		
RCR	70	50	30	10	50	30	10	50	30	10
0	30489	30489	30489	30489	28456	28456	28456	27245	27245	27245
1	27798	26550	25432	24424	24873	24033	23262	23869	23183	22548
2	25337	23224	21475	20004	21827	20473	19302	20987	19855	18861
3	23185	20511	18441	16792	19343	17698	16344	18637	17236	16058
4	21321	18297	16083	14391	17317	15518	14093	16722	15163	13901
5	19697	16466	14208	12541	15640	13769	12335	15137	13492	12201
6	18270	14929	12686	11077	14229	12339	10930	13801	12119	10834
7	17011	13626	11432	9894	13029	11152	9786	12663	10974	9715
8	15898	12512	10383	8920	12000	10155	8839	11685	10010	8786
9	14907	11551	9495	8107	11109	9307	8044	10836	9187	8003
10	14023	10715	8736	7419	10333	8580	7370	10095	8479	7338

Zonal cavity method Effective floor reflectance = 20%

*Zonal Lumens and Percentages*

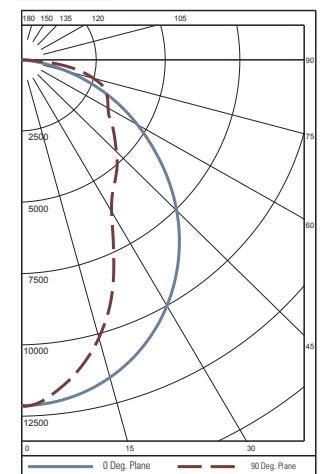
ZONE	LUMENS	% LUMINAIRE
0-40	12501	48.8
0-60	20038	78.2
0-90	25610	100.0
90-180	0	0.0

*Luminance Summary (Candela/M<sup>2</sup>)*

ANGLE	0-DEG	45-DEG	90-DEG
0	21750	21750	21750
45	19310	11410	11580
55	17710	10860	11530
65	15830	10720	13680
75	12100	14100	17620
85	3998	15670	17080

SC: 0-180: 1.23  
90-270: 1.23

*Candela Plot*



**Aisle Footcandle Estimator** VALUES ARE APPROXIMATE AND ARE FOR REFERENCE ONLY.

Height	MR Reflector							
	RG2454MRHEU1		RG2654MRHEU1		RG2432MREU1		RG2632MREU1	
	30"	Vertical fc	30"	Vertical fc	30"	Vertical fc	30"	Vertical fc
20'	28	13	37	18	11	6	17	9
30'	19	10	25	14	8	5	11	7
40'	14	9	19	12	6	4	8	5
50'	11	7	15	9	4	3	7	5

Horizontal footcandle values 30" AFF. Vertical footcandles are averages. 12' wide Aisles with fixtures 25' on center. Consult a lighting engineer to meet specific requirements.

**Open Area Horizontal Footcandle Estimator** VALUES ARE APPROXIMATE AND ARE FOR REFERENCE ONLY.

Height	WR Reflector			
	RG2454WRHEU1	RG2654WRHEU1	RG2432WREU1	RG2632WREU1
20'	24	36	13	19
30'	23	34	12	18
40'	21	32	12	17
50'	20	30	11	16

250' x 250' area; fixtures spaced 25' on center. Values 30" AFF. Consult a lighting engineer to meet specific requirements.