

Example Projects using RemPhos OCC powered LED Drums

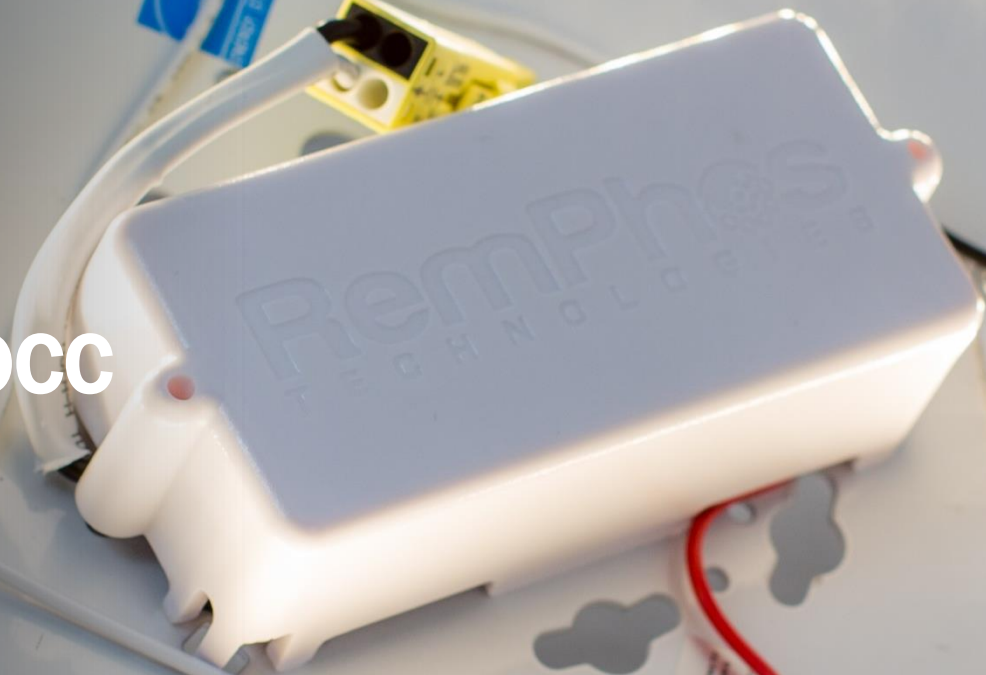
3/30/2015



Click the image below to watch our video!



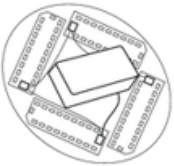

LED CR w/ OCC MODULES



ETL
Intertek
4006475

To order replacement parts: (627) 997-3674 WWW.REMPHOS.COM

PART # CHART

LED CR® MODULE			Quick Ship	DLC E*	Part #	Diameter (in)	Lumen Output (lm)	Wattage (W)	CCT (K)	Voltage Range (V AC)	Warranty (yrs)	Traditional Equivalent	Watts Saved (W)	
	X	E*	RPT-LED CR-900LM 3000K	9	850	7	3000-3500	120-277	5	2 x 13W CFL (30W)	23			
		E*	RPT-LED CR-900LM 3000K-OCC	9	850	9hi/2lo	3000-3500	120-277	5	2 x 13W CFL (30W)	21hi/28lo			
		E*	RPT-LED CR-900LM-3000K-10V DIM	9	850	8	3000-3500	120-277	5	2 x 13W CFL (30W)	22			
		E*	RPT-LED CR-900LM-4000K	9	900	7	4000	120-277	5	2 x 13W CFL (30W)	23			
		E*	RPT-LED CR-900LM-4000K-OCC	9	900	9hi/2lo	4000	120-277	5	2 x 13W CFL (30W)	21hi/28lo			
		E*	RPT-LED CR-900LM-4000K-10V DIM	9	900	8	4000	120-277	5	2 x 13W CFL (30W)	22			
	X	E*	RPT-LED CR-1600LM-3000K	9	1500	12	3000-3500	120-277	5	3 x 13W CFL (45W)	33			
	X	E*	RPT-LED CR-1600LM 3000K-OCC	9	1500	14hi/3lo	3000-3500	120-277	5	3 x 13W CFL (45W)	32hi/42lo			
		E*	RPT-LED CR-1600LM 3000K-10VDIM	9	1500	13	3000-3500	120-277	5	3 x 13W CFL (45W)	32			
	X	E*	RPT-LED CR-1600LM-4000K	9	1600	12	4000	120-277	5	3 x 13W CFL (45W)	33			
	X	E*	RPT-LED CR-1600LM-4000K-OCC	9	1600	14hi/3lo	4000	120-277	5	3 x 13W CFL (45W)	32hi/42lo			
		E*	RPT-LED CR-1600LM-4000K-10V DIM	9	1600	12	4000	120-277	5	3 x 13W CFL (45W)	32			
Benefits: <ul style="list-style-type: none"> • UL 1598C retrofit for any ceiling fixture • Energy Star on all models • Available with integrated high frequency occupancy sensor (OCC) • LED boards "swing out" to uniformly illuminate fixtures 	X	E*	RPT-LED CR-2200LM-3000K	9	2100	18	3000-3500	120-277	5	2 x 26W CFL (54W)	36			
	X	E*	RPT-LED CR-2200LM-3000K-OCC	9	2100	20hi/4lo	3000-3500	120-277	5	2 x 26W CFL (54W)	32hi/51lo			
	X	E*	RPT-LED CR-2200LM-3000K-10VDIM	9	2100	19	3000-3500	120-277	5	2 x 26W CFL (54W)	37			
	X	E*	RPT-LED CR-2200LM-4000K	9	2200	18	4000	120-277	5	2 x 26W CFL (54W)	36			
	X	E*	RPT-LED CR-2200LM-4000K-OCC	9	2200	20hi/4lo	4000	120-277	5	2 x 26W CFL (54W)	32hi/51lo			
		E*	RPT-LED CR-2200LM-4000K-10VDIM	9	2200	19	4000	120-277	5	2 x 26W CFL (54W)	37			
Custom Options														
Detail	Part #	Adder												
Emergency	-EMG				E*	RPT-LED CR-3000LM-3000K	9	2800	27	3000-3500	120-277	5	3 x 26W CFL (80W)	53
2700K	-2700K				E*	RPT-LED CR-3000LM-4000K	9	2950	27	4000	120-277	5	3 x 26W CFL (80W)	53

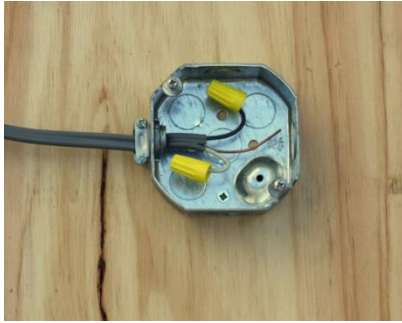
OCC = integral occupancy sensor

High and low wattages (low @ 10% dimmed setting)



How is the LEDCR easily installed into a drum?

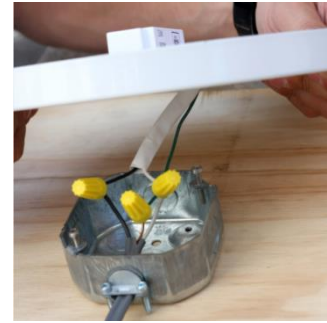
Here's a step by step install



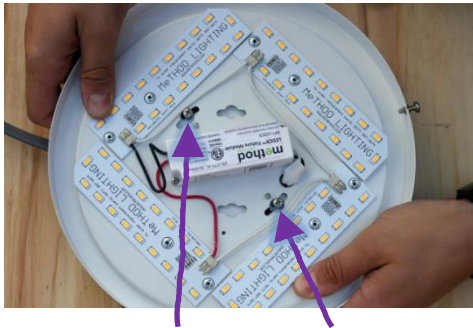
step 1: Empty junction box shown



step 2: Bring LEDCR close to fixture pan. Route AC wires from LEDCR through a hole in fixture pan



step 3: Make AC wire connections in junction box



step 4: Align LEDCR and fixture pan holes with the 2 screws protruding from junction box



step 5: Twist LEDCR and fixture pan at the same time, locking both in place



step 6: Install fixture cover and enjoy!

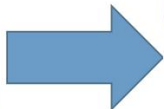
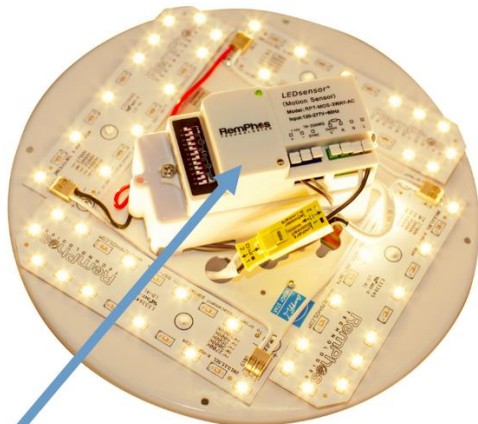
HF Motion Sensor

Built-in microwave motion sensor for OEM lighting fixtures



Auto on-off; Dimming control; DALI control

LEDSCR® high-efficiency light engine powers all RemPhos™ stairwell fixtures



Integral sensor (uses high-frequency technology)

Two different fixture styles available!



Light is off in the absence of people



Light on automatically upon detection of people



Light remains on during the presence of people



light on when people leaving

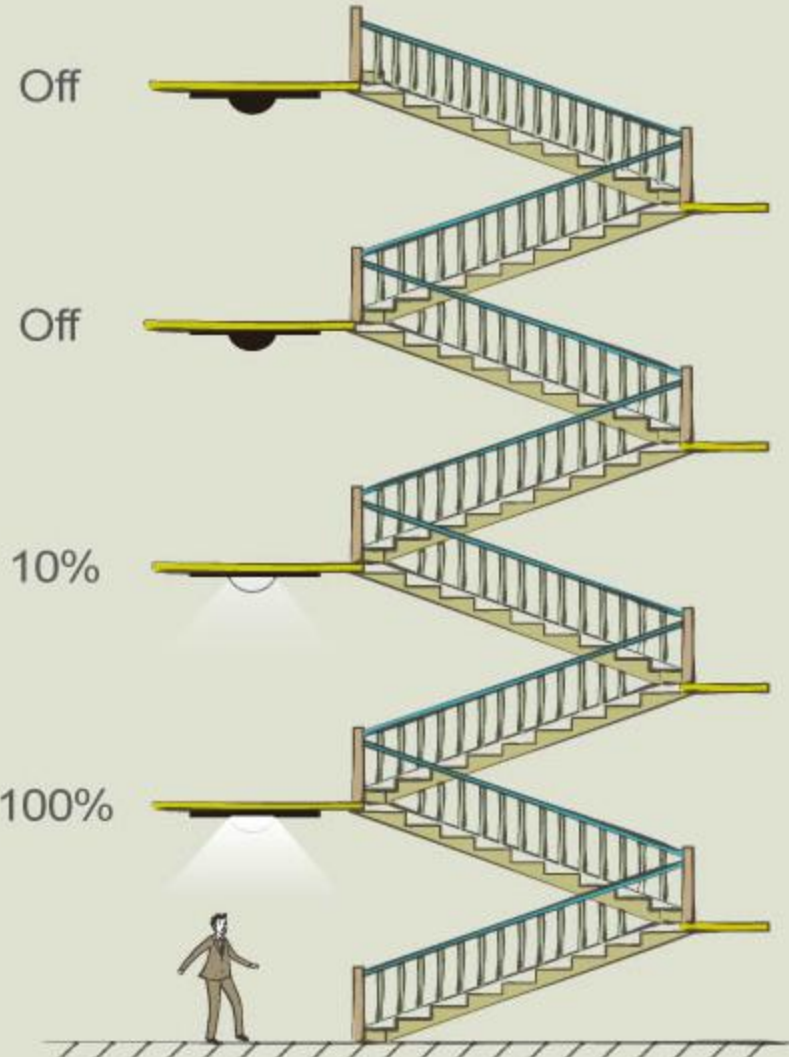


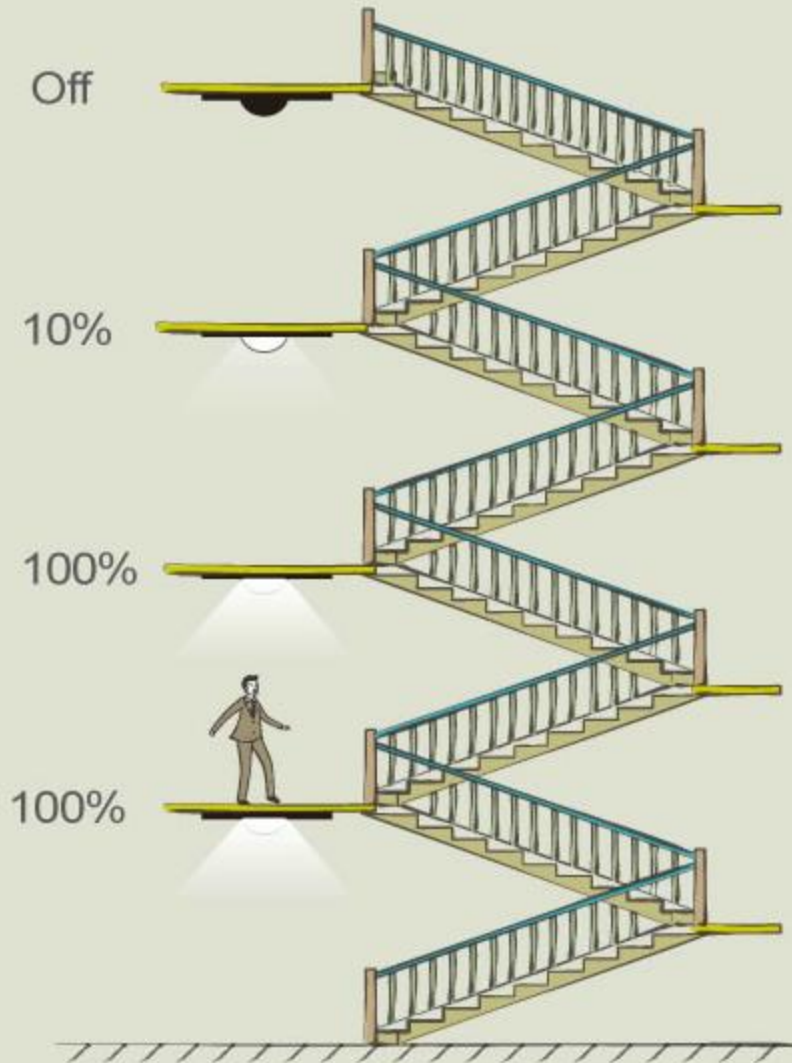
light automatically dimmed to 10% after holdtime

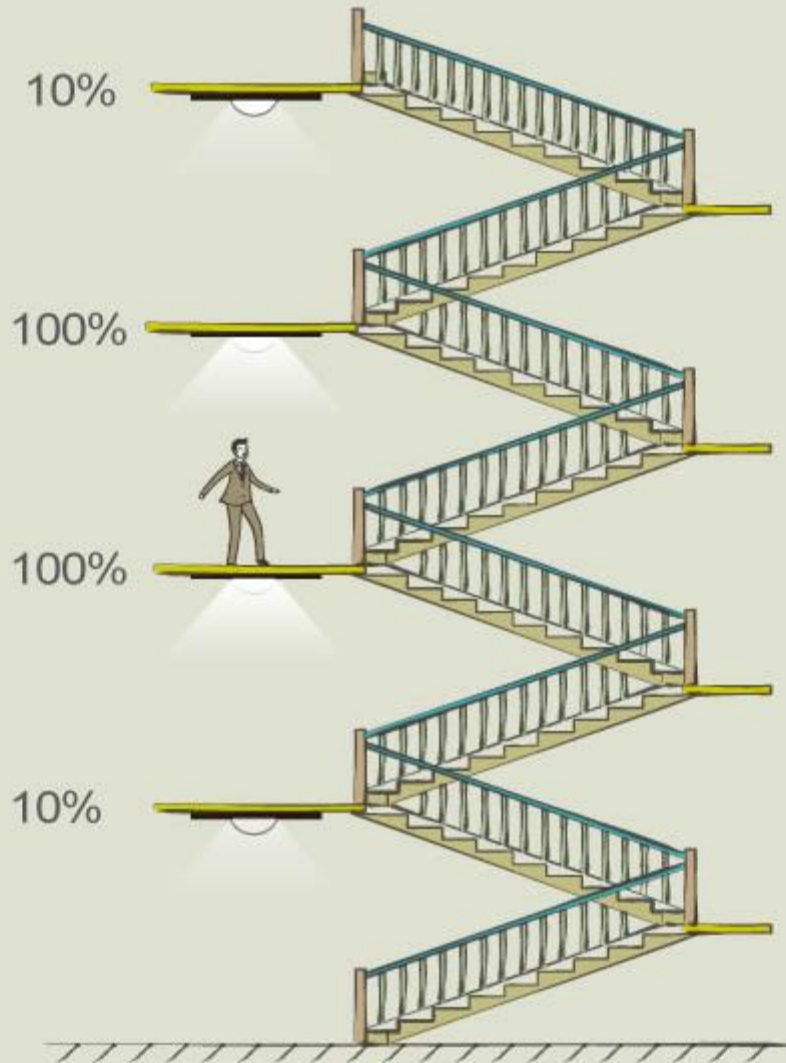


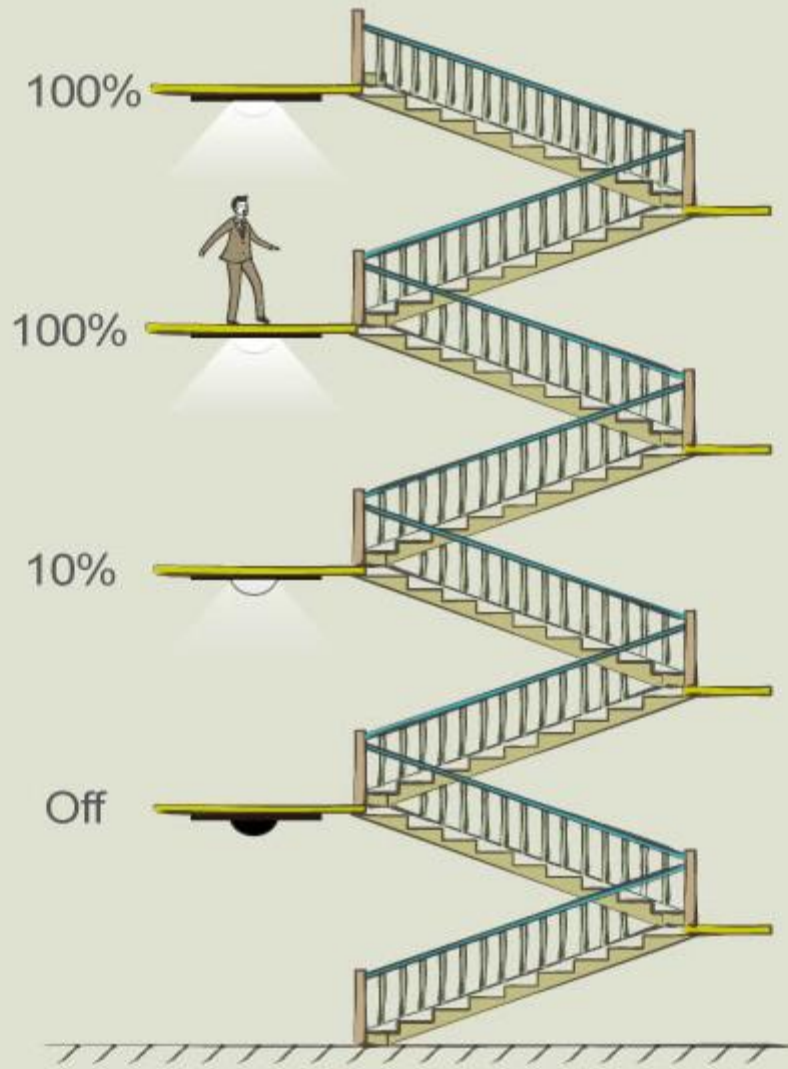
light automatically switched off after stand-by period



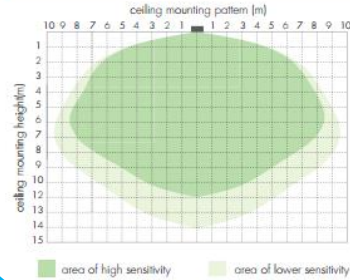








Detection Pattern



Coverage pattern for OCC sensor up to 30ft (can be adjusted on setting #1 below)

Settings

1 Detection area

Detection area can be reduced by selecting the combination on the DIP switches to fit precisely for each specific application.

	1	2
I	●	●
II	●	○
III	○	●
IV	○	○

I - 100%
II - 75%
III - 50%
IV - 10%

2 Hold-time

Hold-time means the time period you would like to keep the lamp on 100% after the person has left the detection area.

	1	2	3
I	●	●	●
II	●	●	○
III	●	○	○
IV	○	●	○
V	○	○	●
VI	○	○	○
VII	○	○	○

I - 5s
II - 30s
III - 1min
IV - 5min
V - 10min
VI - 20min
VII - 30min

3 Daylight sensor

The daylight threshold can be set on DIP switches, to fit for particular application.

	1	2
I	●	○
II	●	●
III	○	●
IV	○	○

I - Disable
II - 50Lux
III - 10Lux
IV - 2Lux

4 Stand-by period (corridor function)

This is the time period you would like to keep at the low light output level before it is completely switched off in the long absence of people.

note: ○ means on/off control;
+∞ means 2 steps of dimming control, fixture never switch off.

	1	2	3
I	●	●	●
II	●	●	○
III	●	○	○
IV	○	●	○
V	○	○	●
VI	○	○	○
VII	○	○	○
VIII	○	○	○

I - 0s
II - 10s
III - 1min
IV - 5min
V - 10min
VI - 30min
VII - 1h
VIII - +∞

5 Stand-by dimming level

This is the dimmed low light output level you would like to have after the hold-time in the absence of people.

	1	2
I	●	●
II	●	○
III	○	●
IV	○	○

I - 10%
II - 20%
III - 30%
IV - 50%

Easy to commission dip switches on the OCC sensor



Example Installation Lawrence Housing Authority



Elegant RemPhos
DESIGNERDRUM
 housings used

Old (ugly!) CFL
 housings shown for
 reference



Fixtures were both ceiling
 and wall mounted

Location	Environment	Fixture Used	Watts @ high	Hrs. on high/week	Hrs. on low/week	Total hrs./week	Annual Hrs	% of hrs. @ low	Annual hrs. @ low	% low light level	Watts @ low	High kWh	Low kWh	Total kWh w/ Controls	Total kWh w/out Controls	kWh Savings	Age group
Lawrence Housing	Hallway	RPT-DRUM-14IN-2200LM-4000K-OCC	20	20	148	168	8736	88%	7696	10%	2.0	20.8	15.4	36.2	174.7	79%	20-60
Lawrence Housing	Stairwell	RPT-DRUM-14IN-2200LM-4000K-OCC	20	5	163	168	8736	97%	8476	10%	2.0	5.2	17.0	22.2	174.7	87%	20-60

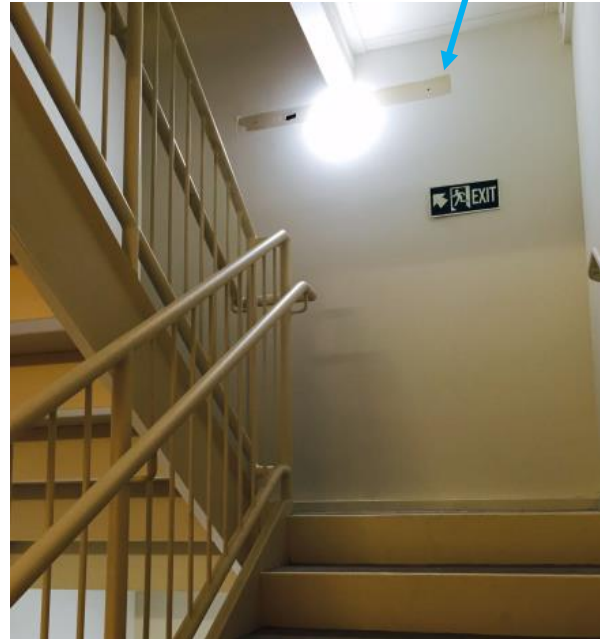


Example Installation Harvard University

RemPhos
UTILITY DRUM
 housings used



Old footprint from 2x32W
fluorescent T8 fixtures has
not yet been repainted



Location	Environment	Fixture Used	Watts @ high	Hrs. on high/week	Hrs. on low/week	Total hrs./week	Annual Hrs	% of hrs. @ low	Annual hrs. @ low	% low light level	Watts @ low	High	Low	Total kWh w/ Controls	Total kWh w/out Controls	kWh Savings	Age group
												kWh	kWh				
Harvard University	Hallway	RPT-DRUM-14IN-2200LM-4000K-OCC	20	80	88	168	8736	52%	4576	10%	2.0	83.2	9.2	92.4	174.7	47%	18-24
Harvard University	Stairwell	RPT-DRUM-14IN-2200LM-4000K-OCC	20	5	163	168	8736	97%	8476	10%	2.0	5.2	17.0	22.2	174.7	87%	18-24

For more information...

Visit us online: www.remphos.com

Call us: **(877) 997-3674**

E-mail me: dgershaw@remphos.com

Visit us in person: **RemPhos HQ – 90 Holten St, Danvers, MA**



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