



Super Illuminator 2

An state-of-the-art low bay innovatively designed for energy efficiency, optimum heat dissipation, and low glare

PHILIPS
GUTH

applications

- For use in a variety of locations: gymnasiums, warehouses, manufacturing, etc.

general specifications

- CFL low bay available with up to 8 lamps
- Relamping requires no tools
- Luminaire shape helps reduce dirt build up
- Horizontal lamping
- Quiet operation

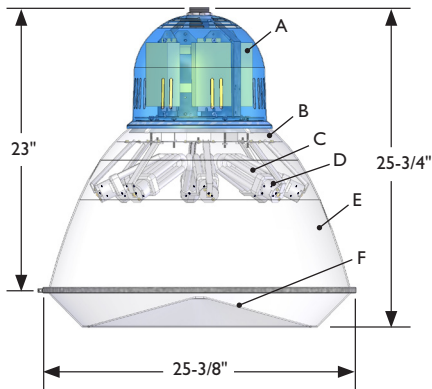
construction/finish

- Rugged aluminum ballast housing
- Prismatic acrylic reflector
- 2 mil polyester powder paint per ASTM B-117 for maximum corrosion resistance
- 3/4" threaded entry

electrical

- 10% THD electronic ballast
- CFL offers instant on
- Utilizes lamp switching to maximize lamp life
- Dimmable and step dimming available
- 0°F starting
- ETL listed to UL1598 at 40°C

dimensions



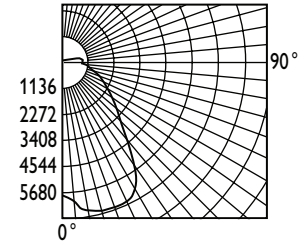
optics/lamps

- Designed for less glare and more usable light
- 1.35 to 1 luminaire spacing
- 82% color accuracy
- 86% lumen maintenance
- Constant lamp lumens (25-60°C)
- 12,000 to 16,000 hours life at 3 hrs per start

product advantages

- Innovative design maximizes heat dissipation for cooler component temperatures
- Unique optical design increases visibility and reduces glare
- Up to 39% less glare than competitive luminaires (see chart below)
- 25% more usable light than competitive luminaires (see chart below)
- 5 year warranty on material, workmanship, and electronic ballast

photometry



Coefficients of Utilization

EFFECTIVE FLOOR CAVITY REFLECTANCE 20%									
ceiling refl	80			50			10		
wall refl	50	30	10	50	30	10	50	30	10
RCR									
0	.90	.90	.90	.80	.80	.80	.69	.69	.69
1	.80	.77	.74	.72	.70	.68	.62	.61	.69
2	.72	.67	.63	.65	.61	.58	.57	.54	.53
3	.65	.59	.55	.59	.55	.52	.52	.49	.47
4	.59	.53	.49	.54	.49	.46	.48	.45	.42
5	.53	.47	.43	.49	.44	.41	.44	.40	.38
6	.49	.43	.39	.45	.40	.37	.40	.37	.34
7	.45	.39	.35	.41	.37	.33	.37	.34	.31
8	.41	.35	.31	.38	.33	.30	.34	.31	.28
9	.37	.32	.28	.35	.30	.27	.31	.28	.25
10	.34	.29	.25	.32	.27	.24	.29	.25	.23

8-42W CFL with Enclosed Acrylic Reflector and Vented Top ETL Test Results at 40°C (104°F) Ambient			
	Part	Max. Temp.	Measured Temp.
A	Ballast	90°C	73.5°C
B	Reflector Top	90°C	81°C
C	Lamp Base	140°C	117°C
D	Socket	130°C	86°C
E	Reflector Wall	90°C	75°C
F	Lens Wall	90°C	75°C

Comparison of Competitive Optical Designs				
	Zone	Guth Lumens	Brand X Lumens	Brand Y Lumens
Useful Light	0-60°	14,431	11,341	10,248
Glare	60-90°	2,525	4,103	3,294
Uplight	90-180°	3,001	5,616	3,931

Design Guide with Clear Prismatic Open Optics						
Lamp & Number	Lamp Lumens	Luminaire Efficiency	0-60° Lumens	Watts	Rated Life	Dimming
8-42 CFL	3,200 x 8	78%	14,431	372	16,000	Y
4-57 CFL	4,300 x 4	89%	13,012	252	16,000	Y
4-70 CFL	5,200 x 4	88%	15,558	304	12,000	Y
5-70 CFL	5,200 x 5	85%	18,784	380	12,000	Y

sample catalog number: S12O5-4N1-842TD

S12	5	-	-	-	-	D	/
Family S12 – Super Illuminator 2	Enclosure E – Enclosed damp O – Open damp	Reflector 3 – Soft glow acrylic 4 – Clear prismatic acrylic 6 – Hi-impact acrylic	Ballast Cover 1 – White aluminum 2 – Anodized aluminum 3 – Custom finish	Options SFF – Slow blow fixture fuse DIM – Dimming ballast (consult factory) XCKT – Multi circuit wiring LHCP-120 – Loop hanger, 6' white cord and NEMA 5-15 molded plug LHCP-277 – Loop hanger, 6' white cord and NEMA L11-15 twist lock plug LH-PT – Loop hanger cord set with 3' pigtails CS – I.P. stem with 45° white swivel canopy, specify length 3" to 72" (___) BEF – 90 min. fluorescent batter back-up (consult factory) BRC – Safety chain WG – Wire guard LVR-25 – Parabolic louver WGC – Wire guard cage	Lens N – None D – Dropped prismatic lens	Lamping 642T – 6LT 42W Triple Tube 842T – 8LT 42W Triple Tube 457Q – 4LT 57W Quad Tube 470Q – 4LT 70W Quad Tube 570Q – 5LT 70W Quad Tube	Voltage D – 120/277V
Size 5 – 25"							



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