

DESCRIPTION

The Halo H800E Compact Fluorescent housing offers high performance with two 13W horizontally mounted, electronic ballasted, Double Twin Tube, 4-Pin compact fluorescent lamps.

APPLICATION

For non-insulated ceilings. Insulation must be kept 3" from housing on all sides and top.

DESIGN FEATURES

A...Reflector

.040 spun aluminum with clear specular Alzak® reflector. Choice of Albalite, Drop Opal or Fresnel lens trims secured with torsion springs.

B...Plaster Frame

Precision die stamped steel frame. Bar Hanger brackets on four sides. Trim supports adjust 3/4" to accommodate different ceiling thicknesses.

C...Junction Box

Listed for eight #12AWG (four in, four out) 90°C conductors feed through branch wiring. Five 1/2" and two 3/4" knockouts. Access to junction box and ballast from below ceiling is by removing reflector.

D...Bar Hangers

Two piece bar hangers accommodate joist spacing up to 24". Bar hangers can be repositioned 90° to simplify clearance for wiring.

E...Socket

Socket assembly for two 13 watt Double Twin (Quad) Tube (DTT), 4-Pin, Compact Fluorescent Lamps. Base Type: G 24Q-1, Lamp Type: CFQ13W/G 24q.

F...Integral Ballast

H800E.....120V-277V Universal Voltage Electronic Ballast

H800E347.....347V Electronic Ballast

Features: High Power Factor, Low THD. For (2) 13 watt DTT (Quad Tube) Compact Fluorescent Lamps.

Catalog #		Type
Project		
Comments		Date
Prepared by		

Labels

U.L. listed
CSA Certified
Standard Damp Label
Listed for Feed Through



**H800E
H800E347**

**13W DTT
ELECTRONIC BALLAST**

8" DOWNLIGHT

**ALBALITE LENS
DROP OPAL LENS
FRESNEL LENS**

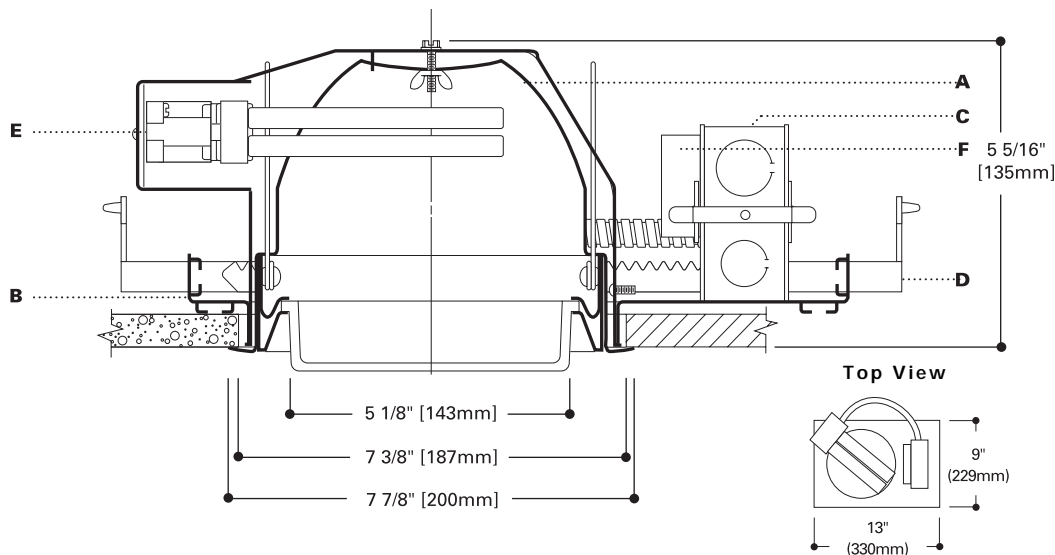
Energy Data

H800E
(2) 13W DTT, 4-Pin CFL
Lamp Type: CFQ13W/G 24q
Ballast: 120V to 277V Electronic,
Universal Voltage
Input Watts: 32W
120V Line Amps: 0.27A
277V Line Amps: 0.12A
Power Factor: >98%
Ballast Factor: 0.98
Min Start Temp: -0°F/-18°C
THD: <10%
Sound Rating: A
EMI/RFI: FCC 47CFR Part 18
Non-Consumer

H800E347
(2) 13W DTT, 4-Pin CFL
Lamp Type: CFQ13W/G 24q
Ballast: 347V Electronic
347V Input Watts: 33
347V Line Amps: 0.10A
Power Factor: >98%
Ballast Factor: 0.98
Min Start Temp: -0°F/-18°C
THD: <10%
Sound Rating: A
EMI/RFI: FCC 47CFR Part 18
Non-Consumer

NOTES:
Housing shown with trim and lamp for reference only. Housing and trim must be ordered separately. Lamp not included unless otherwise stated.

Alzak is a registered trademark of Aluminum Company of America.



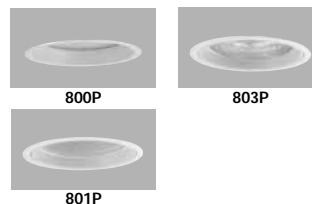
ORDERING INFORMATION

SAMPLE NUMBER: H800E-800P

Complete unit consists of housing and trim (ordered separately).

Housing
H800E=(2) 13W, 120V-277V, Electronic Ballast, CFL
H800E347=(2) 13W, 347V, Electronic Ballast, CFL

Trims
800P=Albalite Lens - Wet Location listed
801P=Drop Opal Lens - Wet Location listed
803P=Fresnel Lens - Wet Location listed



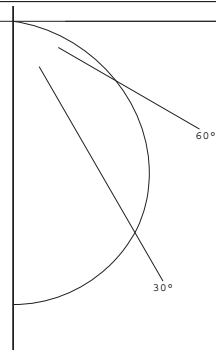
PHOTOMETRICS

Candlepower Distribution

Test No. H23483

H800E-800P

Albalite Glass
Lens Trim
Lamp=Two 13W
Four Pin Quad
Tube
Lumens=900
each
Spacing
Criterion=1.3



Efficiency=20.5%

Candlepower

Deg.	CD
0	134
5	134
15	129
25	121
35	109
45	91
55	69
65	44
75	18
85	2
90	0

Cone of Light

Distance to Illuminated Plane	Initial Nadir Footcandles	Beam Diameter
4'0"	8	5'0"
6'0"	4	7'5"
7'0"	3	9'0"
8'0"	2	10'0"
10'0"	1	13'0"

Beam diameter is to 50% of maximum footcandles, rounded to the nearest half-foot.

Footcandle values are initial, apply appropriate light loss factors where necessary.

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixture
0-30	105	5.8	28.5
0-40	173	9.6	46.9
0-60	304	16.9	82.5
0-90	369	20.5	100.0
90-180	0	0.0	0.0
0-180	369	20.5	100.0

Coefficient of Utilization

rc	80%		70%		50%	
	rw	30	50	30	50	30
RCR						
0	24	24	24	24	23	23
1	22	21	21	20	20	20
2	19	18	19	17	18	17
3	17	15	16	15	16	14
4	15	13	14	13	14	13
5	13	11	13	11	13	11
6	12	10	12	10	11	10
7	11	9	11	9	10	9
8	10	8	10	8	9	8
9	9	7	9	7	9	7
10	8	7	8	7	8	7

rc=Ceiling reflectance, rw=Wall reflectance, RCR=Room cavity ratio . CU Data Based on 20% Effective Floor Cavity Reflectance.

Candlepower Distribution

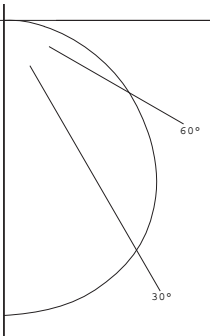
Test No. H23479

H800E-801P

Drop Opal Glass
Lens

Lamp=Two 13W
Four Pin Quad
Tube
Lumens=900
each

Spacing
Criterion=1.3



Efficiency=24.7%

Candlepower

Deg.	CD
0	140
5	139
15	137
25	130
35	119
45	102
55	80
65	57
75	33
85	13
90	0

Cone of Light

Distance to Illuminated Plane	Initial Nadir Footcandles	Beam Diameter
4'0"	9	5'5"
6'0"	4	8'0"
7'0"	3	9'5"
8'0"	2	10'5"
10'0"	1	13'5"

Beam diameter is to 50% of maximum footcandles, rounded to the nearest half-foot.

Footcandle values are initial, apply appropriate light loss factors where necessary.

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixture
0-30	112	6.2	25.2
0-40	187	10.4	42.1
0-60	337	18.7	76.0
0-90	444	24.7	100.0
90-180	0	0.0	0.0
0-180	444	24.7	100.0

Coefficient of Utilization

rc	80%		70%		50%	
	rw	30	50	30	50	30
RCR						
0	29	29	29	29	27	27
1	25	24	25	24	24	23
2	22	20	21	20	21	19
3	19	17	19	17	18	16
4	17	15	17	15	16	14
5	15	13	15	13	14	12
6	14	11	13	11	13	11
7	12	10	12	10	12	10
8	11	9	11	9	11	9
9	10	8	10	8	10	8
10	9	7	9	7	9	7

rc=Ceiling reflectance, rw=Wall reflectance, RCR=Room cavity ratio . CU Data Based on 20% Effective Floor Cavity Reflectance.

Candlepower Distribution

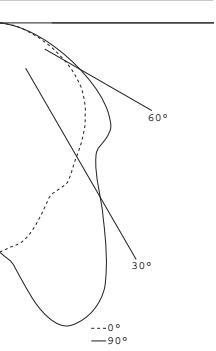
Test No. H23484

H800E-803P

Fresnel Glass
Lens

Lamp=Two 13W
Four Pin Quad
Tube
Lumens=900
each

Spacing
Criterion=1.0



Efficiency=31.3%

Candlepower

Deg.	0°	90°
0	217	217
5	210	245
15	175	293
25	159	239
35	136	159
45	115	147
55	88	114
65	54	64
75	24	26
85	4	3
90	0	0

Cone of Light

Distance to Illuminated Plane	Initial Nadir Footcandles	Beam Diameter
4'0"	17	4'0"
6'0"	8	5'5"
7'0"	6	6'5"
8'0"	4	7'5"
10'0"	3	9'5"

Beam diameter is to 50% of maximum footcandles, rounded to the nearest half-foot.

Footcandle values are initial, apply appropriate light loss factors where necessary.

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixture
0-30	196	10.9	34.8
0-40	297	16.5	52.7
0-60	480	26.7	85.2
0-90	564	31.3	100.0
90-180	0	0.0	0.0
0-180	564	31.3	100.0

Coefficient of Utilization

rc	80%		70%		50%	
	rw	30	50	30	50	30
RCR						
0	37	37	36	36	35	35
1	33	32	32	31	31	30
2	29	27	29	27	28	26
3	26	24	26	23	25	23
4	23	21	23	20	22	20
5	21	18	21	18	20	18
6	19	16	19	16	18	16
7	17	15	17	15	17	14
8	16	13	16	13	15	13
9	15	12	14	12	14	12
10	14	11	13	11	13	11

rc=Ceiling reflectance, rw=Wall reflectance, RCR=Room cavity ratio . CU Data Based on 20% Effective Floor Cavity Reflectance.