8" HORIZONTAL CFL DOWNLIGHT

OPEN APERTURE

One 18 or 26W Quad Tube
Two 18 or 26W Quad Tube

C8HQ OR1L/OR2L, C8HQ B1L/B2L

Type Cat. No.

Project:

Notes:

PRODUCT SPECIFICATIONS

Optics

Reflector: Precision reflector with 55° visual cut-off to both lamp and lamp image • Single position optics eliminate possibility of specified lamp being installed in incorrect position • Low iridescent specular or diffuse Alzak® .050" thick reflector in clear, gold, wheat, pewter or bronze with integral flange of same finish; other finishes available upon request • Painted white flange is optional • V-Flux Miro® specular insert increases efficiency of horizontal CFL models without sacrificing brightness control
Baffle: Specular clear Alzak® upper reflector and white or black painted deep multi-groove aluminum baffle insert with integral flange painted white

Electrical

Ballast: Class "P" thermally protected 120V-277V universal voltage high power factor electronic ballast with end of life protection
Lamp Holder: 4-pin G24q UV stabilized thermoplastic socket with non-fatiguing stainless steel lamp retention spring

Mechanical

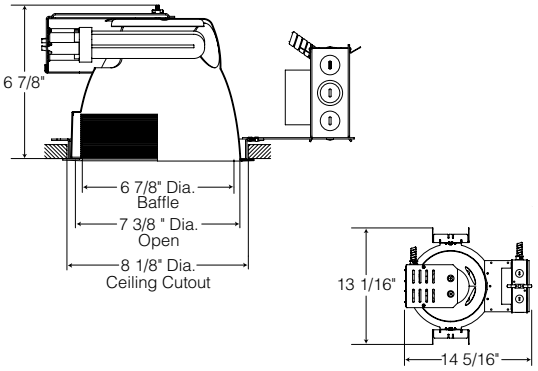
Socket Housing: Heavy gauge die-formed galvanized steel
Mounting Frame: 16-gauge galvanized steel mounting ring with factory installed spring steel friction clips • Accommodates ceilings up to 3/4" thick; ceiling thickness adapter accessory is available for ceilings up to 2" • Common rough-in section accepts open, single wall wash and lensed reflectors
Mounting Bracket: Mounting brackets have 3" vertical adjustment and accept proprietary Tru-Lock bar hangers, 1 1/2" C-channel and flat linear bars (ordered as accessories) or 1/2" EMT, 3/4" and 1 1/2" lathing channel (by others) • One-piece Tru-Lock bar hangers have integral T-bar locking screws and alignment notches for locating and locking fixture in the center or 1/4 tile increments
Junction Box: Ballast mounted to J-box cover for optimal heat dissipation and serviceability from below the ceiling • Oversized 4"x 6" galvanized steel junction box with (6) 1/2" and (1) 3/4" knockouts facilitate quick wiring • Junction box rated for eight No. 12 AWG 90°C branch circuit conductors (4-in, 4-out)

Labels and Listings

UL/C-UL listed for feed through and damp locations • I.B.E.W. Union made • BRT20C option is CEC Title 20 compliant

Specifications subject to change without notice.

DIMENSIONS



ENGINEERING DATA

Voltage	120V-HPF				277V-HPF				347V-HPF Canada			
Lamp Wattage	**1x18**	**2x18**	**1x26**	**2x26**	**1x18**	**2x18**	**1x26**	**2x26**	**1x18**	**2x18**	**1x26**	**2x26**
Total input power	19W	35W	27W	51W	19W	35W	27W	51W	21W	38W	31W	57W
Operating AMPS	0.16	0.07	0.23	0.43	0.07	0.13	0.10	0.19	0.11	0.06	0.09	0.17
Ballast factor	1.00	0.95	1.00	1.00	1.00	0.95	1.00	1.00	1.00	0.98	1.02	0.98

ORDERING INFORMATION:

Complete Catalog # Example Includes (Rough-In, option, reflector, accessory)**:** C8HQ 126Q 120 NDB BR B1L CS PF HBTL

ROUGH-IN

SERIES

C8HQ
C8HQ 8" Horizontal CFL Quad Tube Downlight

WATTAGE/LAMP

118Q 1x18W Quad, 4-Pin
126Q 1x26W Quad, 4-Pin
218Q 2x18W Quad, 4-Pin
226Q 2x26W Quad, 4-Pin

VOLTAGE

120 120 Volt
277 277Volt
347 347 Volt
MVOLT Multi-Volt (120-277 Volt)

DRIVER

[1] **D10** Dimming Ballast Advance Mark 10
D7 Dimming Ballast Advance Mark 7
[1] **DL** Dimming Ballast Lutron Compact SE
NDB Non-Dimming Electronic Ballast

ROUGH-IN OPTIONS

▲**F** Fuse and Fuse Holder
CP Chicago Plenum
BN Emergency Battery Back-Up w/ Integral Test Switch
BR Emergency Battery Pack w/Remote Test Switch
BRT20C Emergency Battery Pack w/ Remote Test Switch, CEC Title 20 Compliant
HBN High-Lumen Emergency Battery Back-Up w/ Integral Test Switch
HBR High Lumen Emergency Battery Pack w/Remote Test Switch

[1] 120 and 277 Volt only
▲ Specify required voltage, does not accept MVOLT

REFLECTOR*

TRIM STYLE

B1L Baffle, 1-Lamp
B2L Baffle, 2-Lamp
OR1L Open Reflector, 1-Lamp
OR2L Open Reflector, 2-Lamp

FINISH

CD Clear Diffuse
CS Clear Specular
BD Black Diffuse
BL Black Baffle
BS Black Specular
BZD Bronze Diffuse
BZS Bronze Specular
GD Gold Diffuse
GS Gold Specular
PTD Pewter Diffuse
PTS Pewter Specular
WH White
WTD Wheat Diffuse
WTS Wheat Specular

TRIM OPTIONS

PF White Flange (Not required when specifying WH finish)
ETSH Emergency Test Switch Hole
MAX26 Label for 26W Maximum Wattage
MAX32 Label for 32W Maximum Wattage

* To order reflector separately, use series and reflector option values. Ex: C8HQ B1L CS PF

ACCESSORIES

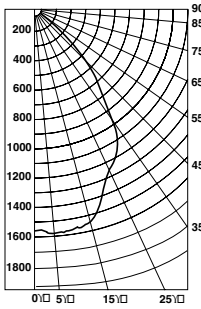
ACCESSORY OPTIONS

HB4 Bar Hanger Conversion Kit for Wooden Joists
HB28 28" C-Channel Bar Hangers, Pair
HB52 52" C-Channel Bar Hangers, Pair
HBTL 25" Tru-Lock Grid Ceiling Bar Hangers, Pair
LB27 27" Linear Bar Hangers, Pair
SCA8/05 8" Sloped Ceiling Adapter, 5 Degree Angle
SCA8/10 8" Sloped Ceiling Adapter, 10 Degree Angle
SCA8/15 8" Sloped Ceiling Adapter, 15 Degree Angle
SCA8/20 8" Sloped Ceiling Adapter, 20 Degree Angle
SCA8/25 8" Sloped Ceiling Adapter, 25 Degree Angle
SCA8/30 8" Sloped Ceiling Adapter, 30 Degree Angle

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OPEN REFLECTOR (2X26W QUAD TUBE)

Catalog Number: C8HQ 226Q MVOLT NDB (OR2L CS)
PHOTOMETRIC REPORT
Test Number: PR04063099
Total Luminaire Efficiency: 59.3%
Luminaire Spacing Criteria: 1.10
Luminaire: Clear specular Alzak® reflector. Open bottom.
Lamps: Two CF26DD/E/841, rated at 3650 lumens.
CIE-Type: Direct



Candlepower Distribution (Candelas)

Angle	Candela	Lumens
0°	1551	
5°	1576	150
15°	1532	434
25°	1241	574
35°	955	600
45°	485	375
55°	29	26
65°	4	4
75°	0	0
85°	0	0

Initial Footcandles

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Footcandles Beam Edge	Beam Diameter
6′	43.1	10.8	9.3′
7′	31.7	8.0	10.9′
8′	24.2	6.1	12.4′
9′	19.2	4.8	14.0′
10′	15.5	3.9	15.5′
11′	12.8	3.2	17.1′
12′	10.8	2.7	18.6′
13′	9.2	2.3	20.2′
14′	7.9	2.0	21.8′
15′	6.9	1.7	23.3′

Luminance Data

Ang in Deg	Footlamberts	Candela/M²
45	7258	24866
55	540	1849
65	103	352
75	0	0
85	0	0

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixture
0-30°	1159	31.8	53.6
0-40°	1759	48.2	81.3
0-60°	2160	59.2	99.8
0-90°	2164	59.3	100.0
90-180°	0	0.0	0.0
0-180°	2164	59.3	100.0

AVERAGE INITIAL FOOTCANDLES
Reflectances: 80% Ceiling, 50% Walls, 30% Floors

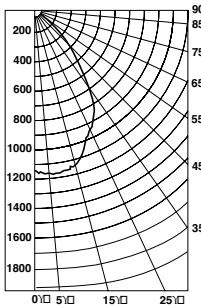
Luminaire Spacing	Room Cavity Ratio RCR1	RCR4	RCR8
5′ x 5′	95	74	55
6′ x 6′	66	52	39
7′ x 7′	48	38	28
8′ x 8′	37	29	22
9′ x 9′	29	23	17
10′ x 10′	24	19	14
11′ x 11′	20	15	11
12′ x 12′	16	13	10

COEFFICIENTS OF UTILIZATION – % (Zonal Cavity Method)
Effective Floor Reflectance 20%

PCC	80				70				50			30			10			0
PW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	71	71	71	71	69	69	69	69	66	66	66	63	63	63	61	61	61	59
1	67	65	64	62	65	64	62	61	61	60	59	59	58	57	57	56	56	55
2	63	60	57	55	62	59	57	54	57	55	53	55	54	52	54	52	51	50
3	59	55	52	49	58	54	51	49	53	50	48	51	49	47	50	48	47	46
4	56	51	47	44	55	50	47	44	49	46	44	48	45	43	47	44	43	42
5	53	47	43	40	52	46	43	40	45	42	40	44	42	39	43	41	39	38
6	49	44	40	37	49	43	39	37	42	39	36	41	38	36	40	38	36	35
7	47	40	36	34	46	40	36	33	39	36	33	38	35	33	38	35	33	32
8	44	38	34	31	43	37	33	31	37	33	31	36	33	30	35	32	30	29
9	41	35	31	28	41	35	31	28	34	31	28	34	30	28	33	30	28	27
10	39	33	29	26	38	32	29	26	32	29	26	31	28	26	31	28	26	25

OPEN REFLECTOR (2X18W QUAD TUBE)

Catalog Number: C8HQ 218Q MVOLT NDB (OR2L CS)
PHOTOMETRIC REPORT
Test Number: PR05060199
Total Luminaire Efficiency: 60.5%
Luminaire Spacing Criteria: 1.08
Luminaire: Clear specular Alzak® reflector. Open bottom.
Lamps: Two CF18DD/E/827, rated at 2500 total lumens.
CIE-Type: Direct



Candlepower Distribution (Candelas)

Angle	Candela	Lumens
0°	1139	
5°	1161	111
15°	1127	319
25°	918	425
35°	637	400
45°	306	237
55°	19	17
65°	4	4
75°	0	0
85°	0	0

Initial Footcandles

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Footcandles Beam Edge	Beam Diameter
6′	31.7	8.5	8.8′
7′	23.3	6.2	10.2′
8′	17.8	4.8	11.7′
9′	14.1	3.8	13.2′
10′	11.4	3.1	14.6′
11′	9.4	2.5	16.1′
12′	7.9	2.1	17.6′
13′	6.7	1.8	19.0′
14′	5.8	1.6	20.5′
15′	5.1	1.4	22.0′

Luminance Data

Ang in Deg	Footlamberts	Candela/M²
45	4587	15716
55	342	1173
65	112	382
75	0	0
85	0	0

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixture
0-30°	855	34.2	56.5
0-40°	1255	50.2	82.9
0-60°	1509	60.4	99.7
0-90°	1513	60.5	100.0
90-180°	0	0.0	0.0
0-180°	1513	60.5	100.0

AVERAGE INITIAL FOOTCANDLES
Reflectances: 80% Ceiling, 50% Walls, 30% Floors

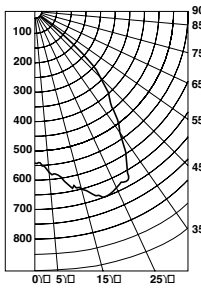
Luminaire Spacing	Room Cavity Ratio RCR1	RCR4	RCR8
5′ x 5′	67	52	39
6′ x 6′	47	36	27
7′ x 7′	34	27	20
8′ x 8′	26	20	15
9′ x 9′	21	16	12
10′ x 10′	17	13	10
11′ x 11′	14	11	8
12′ x 12′	12	9	7

COEFFICIENTS OF UTILIZATION – % (Zonal Cavity Method)
Effective Floor Reflectance 20%

PCC	80				70				50			30			10			0
PW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	72	72	72	72	70	70	70	70	67	67	67	64	64	64	62	62	62	61
1	68	67	65	64	67	65	64	63	63	62	61	61	60	59	58	58	57	56
2	65	61	59	57	63	60	58	56	58	56	55	57	55	53	55	54	52	51
3	61	57	53	51	60	56	53	50	54	52	49	53	51	49	51	49	48	47
4	57	52	49	46	56	52	48	46	50	47	45	49	47	44	48	46	44	43
5	54	48	45	42	53	48	44	41	47	44	41	46	43	41	45	42	40	39
6	51	45	41	38	50	44	41	38	43	40	38	43	40	37	42	39	37	36
7	48	42	38	35	47	41	38	35	41	37	35	40	37	34	39	36	34	33
8	45	39	35	32	44	39	35	32	38	34	32	37	34	32	37	34	32	31
9	43	36	32	30	42	36	32	30	35	32	30	35	32	29	34	31	29	28
10	40	34	30	28	40	34	30	28	33	30	27	33	30	27	32	29	27	26

OPEN REFLECTOR (1X26W QUAD TUBE)

Catalog Number: C8HQ 126Q MVOLT NDB (OR1L CS)
PHOTOMETRIC REPORT
Test Number: PR04062898
Total Luminaire Efficiency: 62.8%
Luminaire Spacing Criteria: 1.34
Luminaire: Clear specular Alzak® reflector. Open bottom.
Lamps: One CF26DD/E/827, rated at 1825 total lumens.
CIE-Type: Direct



Candlepower Distribution (Candelas)

Angle	Candela	Lumens
0°	541	
5°	574	55
15°	655	186
25°	688	319
35°	524	329
45°	310	240
55°	16	14
65°	4	4
75°	0	0
85°	0	0

Initial Footcandles

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Footcandles Beam Edge	Beam Diameter
6′	15.0	3.8	11.1′
7′	11.0	2.8	13.0′
8′	8.5	2.2	14.9′
9′	6.7	1.7	16.7′
10′	5.4	1.4	18.6′
11′	4.5	1.1	20.4′
12′	3.8	1.0	22.3′
13′	3.2	0.8	24.1′
14′	2.8	0.7	26.0′
15′	2.4	0.6	27.8′

Luminance Data

Ang in Deg	Footlamberts	Candela/M²
45	4635	15882
55	295	1011
65	107	365
75	0	0
85	0	0

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixture
0-30°	559	30.6	48.8
0-40°	888	48.7	77.5
0-60°	1142	62.6	99.6
0-90°	1147	62.8	100.0
90-180°	0	0.00	0.00
0-180°	1147	62.8	100.0

AVERAGE INITIAL FOOTCANDLES
Reflectances: 80% Ceiling, 50% Walls, 30% Floors

Luminaire Spacing	Room Cavity Ratio RCR1	RCR4	RCR8
5′ x 5′	50	39	28
6′ x 6′	35	27	19
7′ x 7′	26	20	14
8′ x 8′	20	15	11
9′ x 9′	16	12	9
10′ x 10′	13	10	7
11′ x 11′	10	8	6
12′ x 12′	9	7	5

COEFFICIENTS OF UTILIZATION – % (Zonal Cavity Method)
Effective Floor Reflectance 20%

PCC	80				70				50			30			10			0
PW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	75	75	75	75	73	73	73	73	70	70	70	67	67	67	64	64	64	63
1	71	69	67	65	69	67	66	64	65	64	62	63	62	61	60	60	59	58
2	67	63	60	58	65	62	59	57	60	58	56	58	56	55	56	55	53	52
3	62	58	54	51	61	57	54	51	55	52	50	54	51	49	52	50	48	47
4	58	53	49	46	57	52	48	46	51	48	45	49	47	44	48	46	44	43
5	55	49	44	41	54	48	44	41	47	43	41	46	43	40	45	42	40	39
6	51	45	40	37	50	44	40	37	43	40	37	42	39	37	41	38	36	35
7	48	41	37	34	47	41	37	34	40	36	33	39	36	33	38	35	33	32
8	45	38	34	31	44	38	34	31	37	33	31	36	33	30	36	33	30	29
9	42	35	31	28	42	35	31	28	34	31	28	34	30	28	33	30	28	27
10	40	33	29	26	39	33	28	26	32	28	26	31	28	26	31	28	25	25

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