

Reflector Trim			Frame-In Kit		Lamping (Ceramic Metal Halide)	
C4T4W	CLW	Specular Clear, White Painted Flange.	C420BT5PGJ5E1	Electronic 120V	22W Philips MiniMasterColor	
	CLP	Specular Clear, Matching Flange.	C420T4GU65EU	Electronic 120V/277V	20W GE ConstantColor	
	CCDW	Comfort Clear Diffuse, White Painted Flange.	C420T4EU	Electronic 120V/277V	20W T4.5	
	CCDP	Comfort Clear Diffuse, Matching Flange.	C439T4GU65EU	Electronic 120V/277V	39W Philips MiniMasterColor	
	CCZW	Champagne Bronze, White Painted Flange.	C439T4E1	Electronic 120V	39W T4.5	
	CCZP	Champagne Bronze, Matching Flange.	C439T4E2	Electronic 277V	39W T4.5	
			C470T4E1	Electronic 120V	70W T4.5	
			C470T4E2	Electronic 277V	70W T4.5	

Features

- Upper Reflector:** Clear anodized aluminum, 0.040" (16 ga.). Provides wide beam optics ideal for general lighting and wall washing.
- Downlight/Wall Washer Reflector:** Provides vertical surface wall washing and downlighting. Low brightness with 50° visual cut-off to lamp and lamp image. Self-flanged reflector with white or matching (polished) flange. Consult factory for other finishes.
- Lamp Shield:** High temperature glass as required by code, captive during re-lamping. Light diffusion provides extremely smooth beam.
- Socket Housing:** Galvanized steel, pre-wired with G8.5 pulse rated socket. Snaps onto reflector/housing for secure attachment without tools. Unitized construction assures proper optical alignment of lamp to reflector.
- Mounting Frame:** 0.048" (18 ga.) galvanized steel. Vertical adjustment mechanism accommodates mounting to virtually any ceiling system using mounting bars (provided), or 1/2" EMT tubing (by others). Single locking feature secures all adjustments. Alignment holes and markings allow fixture to be preset prior to installation.
- Mounting Ring:** 0.048" (18 ga.) galvanized steel. Designed for vertical adjustment from above or below for ceilings from 0" to 2" thick. Center-line notches allow consistent alignment of multiple fixtures.
- Mounting Bars:** 0.048" (18 ga.) galvanized steel. Pre-installed, telescoping bars extend to 30" long and lock securely into position. Built-in locking tabs provide positive attachment to common T-bar systems. Self-centering feature simplifies installation in 24" O.C. grid systems. Attaches to steel or wood joists without accessories.
- Trim Retention Springs:** Rust resistant springs secure reflector/housing for quick, tool-less installation.
- Ballast / Socket Housing / Cover Assembly:** Electronic, snaps onto junction box without tools for inspection and ballast replacement, accessible from below.
- Junction Box:** 0.048" (18 ga.) galvanized steel. UL listed for 8 No. 12 AWG, 90°C through branch circuit conductors. Allows inspection from below.
- Thermal Protector:** (Not Shown) Meets NEC and UL requirements. Do not install insulation above nor within 3" (76mm) of any part of the luminaire.

Electrical

Electronic Ballast: 120V or 277V, 50/60 Hz., encased, high power factor, T.H.D. <15%, thermally and transient protected, RMI/RFI complies with FCC Part 18 non-consumer limits, shut-down circuit at end of lamp life, sound rating "A", -5°F minimum starting temperature, Type 1 Outdoor rating.

Ballast	ANSI Code	Voltage	Max. Amps	Input Watts
20W MH	M156	120/277	0.21/0.10	23
39W MH	M130	120/277	0.39/0.17	44
70W MH	M139	120/277	0.67/0.29	78

Options and Accessories

Chicago Plenum: Consult Factory.

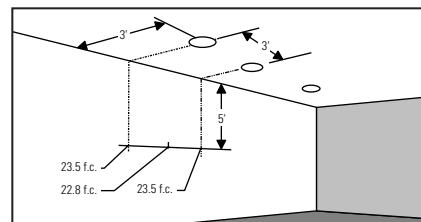
Labels

UL (Suitable for Damp Locations), CSA, I.B.E.W.

For 70W, install fixtures with minimum spacing between:

- Center-to-center of adjacent luminaires: 2 feet.
- Top of luminaire to overhead building member: 1/2 inch.
- Luminaire center to side building member: 1 foot.

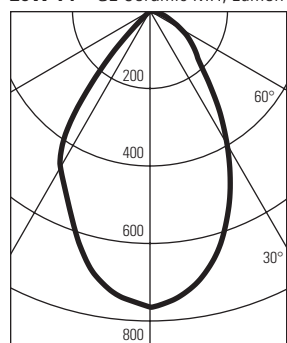
Job Information	Type:
Job Name:	
Cat. No.:	
Lamp(s):	
Notes:	



Lighting Data - Example
C4T4WCLW illumination on the wall
5' down from the ceiling is 23.5 f.c.
beneath and 22.8 f.c. between fixtures.

Candlepower Distribution

20W T4 GE Ceramic MH, Lumen Rating = 1700 LMS., Aromat 20W Electronic Ballast, CL Finish Reflector, Report No. 2427FR



Downlight Side Wall Wash Side

Multiple Units - Footcandles On Wall
2' from Wall - 3' On Center

Distance From Ceiling in Feet	1	2	3
1	19.6	18.2	19.6
2	25.8	26.7	25.8
3	27.5	26.7	27.4
4	24.8	23.8	24.8
5	20.2	20.1	20.2
6	16.9	16.8	16.9
7	13.9	13.7	13.9
8	11.8	11.7	11.8
9	10.2	10.1	10.2
10	8.9	8.9	8.9
11	8.1	8.1	8.1
12	7.5	7.5	7.5
13	7.1	7.1	7.1
14	6.9	6.8	6.9

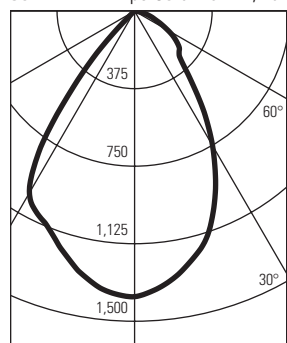
Multiple Units - Footcandles On Wall
3' from Wall - 3' On Center

Distance From Ceiling in Feet	1	2	3
1	15.6	9.7	15.6
2	19.2	15.2	19.2
3	18.2	18.5	18.1
4	16.8	16.0	16.8
5	14.3	12.9	14.3
6	11.7	11.1	11.7
7	9.4	9.3	9.4
8	8.0	8.0	8.0
9	6.9	6.8	6.9
10	6.1	6.0	6.1
11	5.5	5.5	5.5
12	5.1	5.1	5.1
13	4.8	4.8	4.8
14	4.7	4.7	4.7

Multiple Units - Footcandles On Wall
3' from Wall - 4' On Center

Distance From Ceiling in Feet	1	2	3
1	6.5	6.3	6.5
2	11.5	11.1	11.5
3	12.1	12.6	12.1
4	12.7	12.9	12.7
5	13.0	12.3	13.0
6	11.8	11.4	11.8
7	10.5	10.4	10.5
8	9.3	9.3	9.3
9	8.4	8.3	8.4
10	7.6	7.5	7.6
11	6.9	6.8	6.9
12	6.3	6.3	6.3
13	5.9	5.8	5.9
14	5.6	5.5	5.6

39W T4 Philips Ceramic MH, Lumen Rating = 3300 LMS., Aromat 39W Electronic Ballast, CL Finish Reflector. Report No. 2426FR



Downlight Side Wall Wash Side

Multiple Units - Footcandles On Wall
2' from Wall - 3' On Center

Distance From Ceiling in Feet	1	2	3
1	32.2	20.3	32.2
2	34.1	28.4	34.1
3	33.7	31.7	33.7
4	30.8	30.7	30.8
5	26.9	24.9	26.9
6	22.1	21.4	22.1
7	17.8	17.8	17.8
8	15.2	15.3	15.2
9	13.2	13.2	13.2
10	11.6	11.6	11.6
11	10.5	10.5	10.5
12	9.7	9.7	9.7
13	9.2	9.2	9.2
14	8.9	8.9	8.9

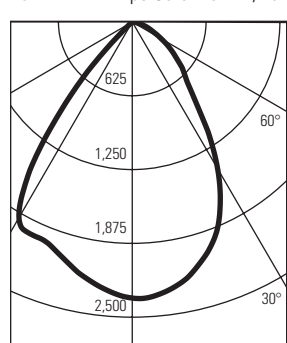
Multiple Units - Footcandles On Wall
3' from Wall - 3' On Center

Distance From Ceiling in Feet	1	2	3
1	13.6	13.2	13.6
2	23.4	22.5	23.4
3	22.4	22	22.4
4	22.5	22.5	22.5
5	23.5	22.8	23.5
6	22.1	21.6	22.1
7	19.9	19.8	19.9
8	17.8	17.9	17.8
9	16	16	16
10	14.4	14.4	14.4
11	13.2	13	13.2
12	12.1	12	12.1
13	11.2	11.2	11.2
14	10.6	10.6	10.6

Multiple Units - Footcandles On Wall
3' from Wall - 4' On Center

Distance From Ceiling in Feet	1	2	3
1	10.2	8.4	10.2
2	18.5	14.8	18.5
3	16.7	15.3	16.7
4	17	15.8	17
5	16.7	17.1	16.7
6	16.3	15.6	16.2
7	14.9	14	14.9
8	13.1	12.7	13.1
9	11.6	11.5	11.6
10	10.3	10.4	10.3
11	9.3	9.4	9.3
12	8.5	8.6	8.5
13	7.9	7.9	7.9
14	7.4	7.5	7.4

70W T4 Philips Ceramic MH, Lumen Rating = 6400 LMS., Aromat 70W Electronic Ballast, CL Finish Reflector. Report No. 2425FR



Downlight Side Wall Wash Side

Multiple Units - Footcandles On Wall
2' from Wall - 3' On Center

Distance From Ceiling in Feet	1	2	3
1	49	30.3	49
2	66.9	52.1	66.9
3	64.9	63.9	64.9
4	60	59.3	60
5	50.7	48.5	50.7
6	41.4	40.8	41.4
7	33.4	33.5	33.4
8	28.4	28.7	28.4
9	24.6	24.6	24.6
10	21.6	21.6	21.6
11	19.5	19.4	19.5
12	17.9	17.9	17.9
13	16.9	16.9	16.9
14	16.3	16.3	16.3

Multiple Units - Footcandles On Wall
3' from Wall - 3' On Center

Distance From Ceiling in Feet	1	2	3
1	20	18.6	20
2	36.9	35	36.9
3	41.9	43.4	41.9
4	44.5	44.6	44.5
5	45.9	44.9	45.9
6	42.5	42.5	42.5
7	37.9	38.4	37.9
8	33.7	34.1	33.7
9	30.1	30.2	30.1
10	27	27	27
11	24.6	24.5	24.6
12	22.5	22.4	22.5
13	20.9	20.8	20.9
14	19.8	19.7	19.8

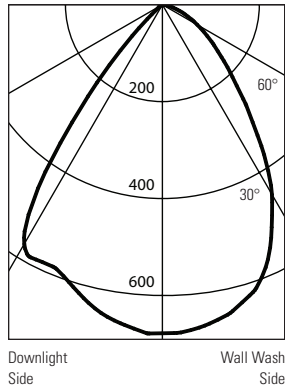
Multiple Units - Footcandles On Wall
3' from Wall - 4' On Center

Distance From Ceiling in Feet	1	2	3
1	15.4	11.2	15.4
2	29.4	22.6	29.4
3	32.3	29	32.3
4	32.3	32.9	32.3
5	33.1	33	33.1
6	31.5	30.4	31.5
7	28.2	27.4	28.2
8	24.7	24.4	24.7
9	21.7	21.8	21.7
10	19.3	19.6	19.3
11	17.4	17.7	17.4
12	15.8	16.1	15.8
13	14.6	14.8	14.6
14	13.8	13.9	13.8

Lighting data above is certified, computed by LSI Program **Test-Lite**

Job Information **Type:**

22W PGJ5 Philips MiniMastercolor CMH Lamp, Lumen Rating = 1650 lms, Aromat Electronic Ballast, CL Finish Trim



2' from Wall - 3' On Center

	<--- 3' --->		
1	15	9	15
2	21	14	21
3	20	17	20
4	17	18	17
5	15	14	15
6	12	12	12
7	10	10	10
8	9	9	9
9	7	7	7
10	6	6	6
11	6	6	6
12	5	5	5
13	5	5	5
14	5	5	5

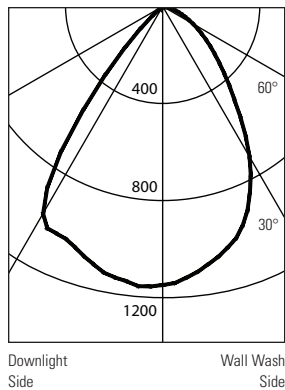
3' from Wall - 3' On Center

	<--- 3' --->		
1	6	5	6
2	11	10	11
3	13	12	13
4	13	13	13
5	13	13	13
6	12	12	12
7	11	11	11
8	10	10	10
9	9	9	9
10	8	8	8
11	7	7	7
12	7	7	7
13	6	6	6
14	6	6	6

3' from Wall - 4' On Center

	<--- 4' --->		
1	4	3	4
2	8	7	8
3	10	8	10
4	10	9	10
5	9	10	9
6	9	9	9
7	8	8	8
8	7	7	7
9	6	6	6
10	6	6	6
11	5	5	5
12	5	5	5
13	4	4	4
14	4	4	4

39W PGJ5 Philips MiniMastercolor CMH Lamp, Lumen Rating = 3000 lms, Aromat Electronic Ballast, CL Finish Trim



2' from Wall - 3' On Center

	<--- 3' --->		
1	25	14	25
2	35	24	35
3	32	29	32
4	27	29	27
5	23	23	23
6	20	19	20
7	16	16	16
8	14	14	14
9	12	12	12
10	11	11	11
11	10	10	10
12	9	9	9
13	8	8	8
14	8	8	8

3' from Wall - 3' On Center

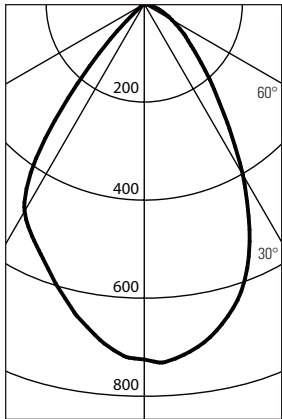
	<--- 3' --->		
1	10	9	10
2	19	17	19
3	21	20	21
4	21	22	21
5	21	21	21
6	20	20	20
7	18	18	18
8	16	16	16
9	14	14	14
10	13	13	13
11	12	12	12
12	11	11	11
13	10	10	10
14	10	10	10

3' from Wall - 4' On Center

	<--- 4' --->		
1	8	5	8
2	15	11	15
3	17	13	17
4	16	15	16
5	15	16	15
6	14	15	14
7	13	13	13
8	12	11	12
9	11	10	11
10	9	9	9
11	8	9	8
12	8	8	8
13	7	7	7
14	7	7	7

Job Information **Type:**

22W GU6.5 GE CMH Lamp, Lumen Rating = 1650 lms, Aromat Electronic Ballast, CL Finish Trim



Downlight Side Wall Wash Side

2' from Wall - 3' On Center

Distance From Ceiling in Feet	<--- 3' --->		
1	12	8	12
2	17	13	17
3	17	16	17
4	16	16	16
5	14	12	14
6	11	11	11
7	9	9	9
8	8	8	8
9	7	7	7
10	6	6	6
11	5	5	5
12	5	5	5
13	5	5	5
14	5	5	5

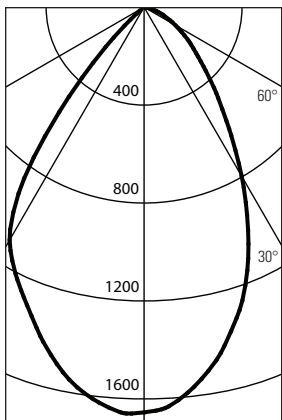
3' from Wall - 3' On Center

Distance From Ceiling in Feet	<--- 3' --->		
1	5	5	5
2	9	9	9
3	11	10	11
4	11	12	11
5	12	12	12
6	11	11	11
7	10	10	10
8	9	9	9
9	8	8	8
10	7	7	7
11	7	7	7
12	6	6	6
13	6	6	6
14	5	5	5

3' from Wall - 4' On Center

Distance From Ceiling in Feet	<--- 4' --->		
1	4	3	4
2	7	6	7
3	8	7	8
4	9	8	9
5	9	9	9
6	8	8	8
7	8	7	8
8	7	6	7
9	6	6	6
10	5	5	5
11	5	5	5
12	4	4	4
13	4	4	4
14	4	4	4

39W GU6.5 GE CMH Lamp, Lumen Rating = 3000 lms, Aromat Electronic Ballast, CL Finish Trim



Downlight Side Wall Wash Side

2' from Wall - 3' On Center

Distance From Ceiling in Feet	<--- 3' --->		
1	26	15	25
2	37	26	37
3	35	33	35
4	32	33	31
5	28	26	28
6	24	23	24
7	19	19	19
8	17	17	17
9	15	15	15
10	13	13	13
11	12	12	12
12	11	11	11
13	10	10	10
14	10	10	10

3' from Wall - 3' On Center

Distance From Ceiling in Feet	<--- 3' --->		
1	10	9	10
2	20	18	20
3	23	22	23
4	23	24	23
5	24	24	24
6	23	22	23
7	21	21	21
8	19	19	19
9	17	17	17
10	16	16	16
11	14	14	14
12	13	13	13
13	12	12	12
14	12	12	12

3' from Wall - 4' On Center

Distance From Ceiling in Feet	<--- 4' --->		
1	8	5	8
2	15	12	15
3	18	14	18
4	18	17	18
5	17	18	17
6	17	17	17
7	16	15	16
8	14	13	14
9	13	12	12
10	11	11	11
11	10	10	10
12	9	9	9
13	9	9	9
14	8	8	8

Job Information **Type:**