

COOPER LIGHTING - METALUX®

DESCRIPTION

The Metalux Horizon Recessed Wall Wash Series features recessed aesthetics and the latest in Energy Efficient Technology. The clean architectural design incorporates precision-formed aluminum reflector features that produces efficient, uniform and continuous vertical wall illumination.

The Horizon Recessed Wall Wash Series is specifically designed for effective use in various retail, merchandising and commercial wall washing environments. Horizon is ideal for retail displays, showrooms, corridor walls, art lighting and the elimination of the "Cave Effect" in office lighting applications.

SPECIFICATION FEATURES

A ... Construction

Nominal 4-1/2" deep 10"x4" housing designed for use with T8 and biaxial lamps. The housing is constructed of die formed code gauge prime cold rolled steel. Housing incorporates a longitudinal flange for grid installation or ceiling tile support. KO's for continuous row mounting.

B ... Electrical*

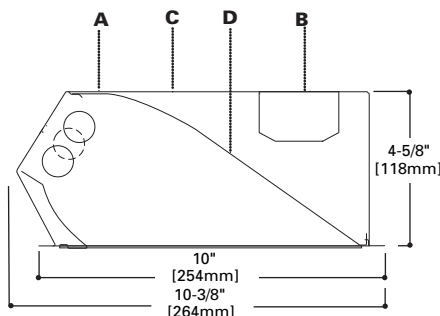
Ballasts are CBM/ETL Class "P" and are positively secured. Biax models use 2G11 base lampholders with double-edge wiping action pressure lock contacts and lamp support clips. T8 models use pressure-lock lampholders. UL/CUL listed. Suitable for damp locations.

C ... Finish

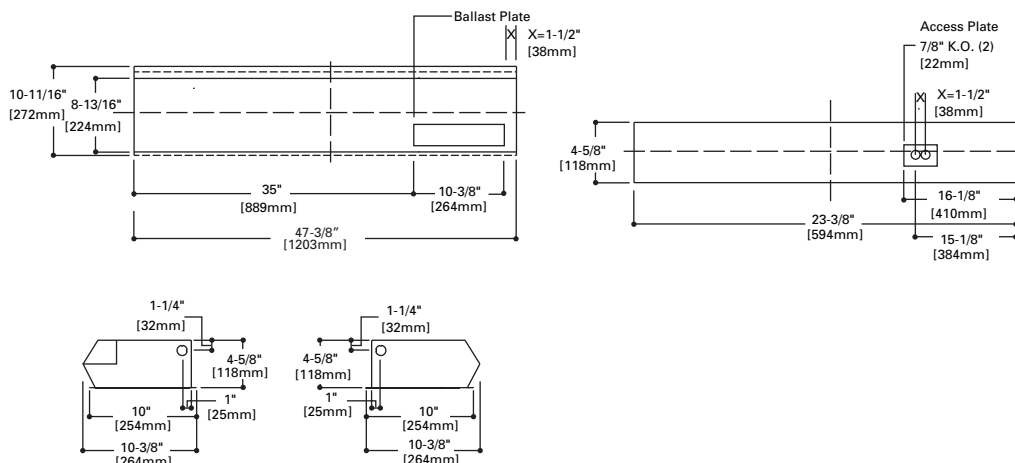
Electrostatically applied baked white polyester powder enamel finish. Multistage cleaning cycle, iron phosphate coating with rust inhibitor. Conveyorized application and baking timing accurately controlled at an elevated temperature.

D ... Reflector Optical Assembly

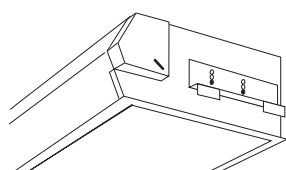
The internal aluminum reflector optical assembly incorporates an upper "Scoop" and lower "Kick" reflector design. This design produces uniform even illumination on vertical surfaces. Continuous illumination is maintained to the junction of the wall and the ceiling. Reflectors are precision manufactured from specular low iridescent aluminum in a computer-controlled operation.



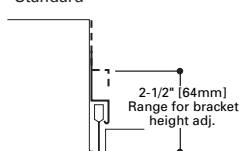
MOUNTING DATA



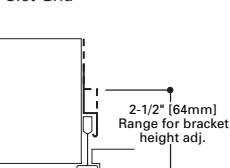
INSTALLATION DATA



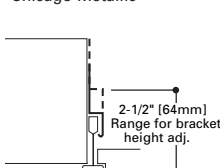
G Grid/Lay-in Standard



T Slot Grid



T Chicago Metallic



ENERGY DATA

Input Watts:

Electronic Ballast & STD Lamps

132 (32)

232 (58)

T1BX40 (71)

T1BX50 (106)

T1BX55 (117)

ES Ballast & STD Lamps

132 (30)

232 (55)

1BX50 (54 Watts)

T2BX50 (106 Watts)

STD Ballast & STD Lamps

T1BX40 (77)

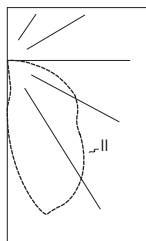
*Reference the lamp/ballast data in the Technical Section for specific lamp/ballast requirements.

LAMPS CONTAIN MERCURY. DISPOSE ACCORDING TO LOCAL, STATE OR FEDERAL LAWS

LINEAR DISCONNECT

Safe and convenient means of disconnecting power





RWW-232MI
Electronic Ballast
F32T8/835 Lamps
2800 Lumens
Efficiency 69.7%
Test Report:
RWW232MI.IES

Candela

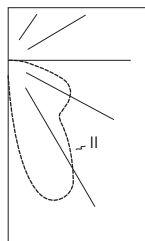
Angle	Along II	45°	Across I
0	943	943	943
5	1435	1319	940
10	2087	1803	930
15	2601	2227	910
20	2656	2529	880
25	2595	2556	839
30	2479	2436	791
35	2332	2317	736
40	2136	2155	675
45	1817	1961	607
50	1667	1737	532
55	1554	1442	454
60	1416	1258	379
65	1197	1111	305
70	938	912	234
75	663	657	166
80	422	406	110
85	184	166	59
90	0	0	0

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixture
0-30	959	17.1	24.6
0-40	1640	29.3	42.0
0-60	2973	53.1	76.2
0-90	3902	69.7	100.0
0-180	3902	69.7	100.0

Coefficients of Utilization

rc rw RCR	Effective floor cavity reflectance 20%					20%					10%					0%				
	80%	70%	50%	30%	10%	80%	70%	50%	30%	10%	80%	70%	50%	30%	10%	80%	70%	50%	30%	10%
0	83	83	83	83	81	81	81	81	77	77	77	77	74	74	74	71	71	71	70	70
1	76	73	70	67	74	71	68	66	68	66	64	65	64	62	63	61	60	59	58	59
2	69	63	59	55	67	62	58	54	60	56	53	57	54	52	55	53	51	49	49	49
3	63	56	50	46	61	55	50	45	53	48	45	51	47	44	49	46	43	42	42	42
4	58	49	43	39	56	49	43	38	47	42	38	45	41	37	44	40	37	35	35	35
5	53	43	37	32	51	43	37	32	41	36	32	40	35	32	39	34	31	30	30	30
6	48	39	32	28	47	38	32	28	37	31	27	36	31	27	35	30	27	26	26	26
7	44	35	28	24	43	34	28	24	33	28	24	32	27	24	31	27	23	22	22	22
8	41	31	25	21	40	30	25	21	30	24	20	29	24	20	28	23	20	19	19	19
9	37	28	22	18	36	27	22	18	26	21	18	26	21	17	25	21	17	16	16	16
10	35	25	19	15	34	25	19	15	24	19	15	23	19	15	23	18	15	14	14	14



RWW-T1BX40
Electronic Ballast
F40BX/835/RS Lamps
3150 Lumens
Efficiency 79.9%
Test Report:
RWWT1BX40MI.IES

Candela

Angle	Along II	45°	Across I
0	419	419	419
5	931	826	423
10	2342	1586	419
15	3471	2733	412
20	3766	3408	403
25	3847	3601	389
30	3629	3573	371
35	3145	3500	349
40	2378	3154	328
45	2092	2635	306
50	2014	1960	283
55	2006	1721	260
60	1961	1593	236
65	1899	1514	219
70	1631	1382	209
75	1099	1146	203
80	675	653	191
85	405	326	99
90	0	0	0

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixture
0-30	1095	17.4	21.8
0-40	1998	31.7	39.7
0-60	3648	57.9	72.5
0-90	5031	79.9	100.0
0-180	5031	79.9	100.0

Coefficients of Utilization

rc rw RCR	Effective floor cavity reflectance 20%					20%					10%					0%				
	80%	70%	50%	30%	10%	80%	70%	50%	30%	10%	80%	70%	50%	30%	10%	80%	70%	50%	30%	10%
0	95	95	95	95	93	93	93	93	89	89	89	85	85	85	81	81	81	80	80	80
1	86	82	79	76	84	81	77	74	77	74	72	74	72	70	71	69	68	66	66	66
2	78	71	66	61	76	70	65	60	67	63	59	64	61	57	62	59	56	54	54	54
3	71	62	56	50	69	61	55	50	59	53	49	57	52	48	54	51	47	45	45	45
4	65	55	48	42	63	54	47	42	52	46	41	50	45	41	48	44	40	38	38	38
5	59	48	41	35	57	47	40	35	45	39	34	44	38	34	42	38	34	32	32	32
6	54	43	35	30	52	42	35	30	40	34	29	39	33	29	38	33	29	27	27	27
7	50	38	31	26	48	37	30	25	36	30	25	35	29	25	34	29	25	23	23	23
8	45	34	27	22	44	33	26	22	32	26	22	31	26	21	30	25	21	20	20	20
9	42	30	23	18	40	30	23	18	29	23	18	28	22	18	27	22	18	16	16	16
10	39	27	20	16	37	27	20	16	26	20	16	25	20	16	24	19	16	14	14	14

Wall Illuminance

Individual Unit*											Multiple Units*											Continuous Row*										
0' 1' 2' 3' 4' 5' 6' 7' 8'											0' 1' 2' 3' 4' 5' 6' 7' 8'											0' 1' 2' 3' 4' 5' 6' 7' 8'										
Ceiling											Ceiling											Ceiling										
8'											8'											8'										
65	59	42	24	13	7	4	2	2			69	63	48	33	27	33	48	63	69			95	95	95	95	95	95	95	95	95	95	95
82	74	56	35	20	11	7	4	3			88	81	65	49	42	49	65	81	88			128	129	129	129	129	129	129	129	129	129	129
64	59	47	33	21	13	8	5	3			72	68	58	48	44	48	58	68	72			113	113	114	114	114	114	114	114	114	114	115
50	46	38	28	19	13	8	6	4			59	56	50	44	42	44	50	56	59			96	97	98	98	99	99	99	99	99	99	99
35	33	29	23	17	12	8	6	4			45	43	40	37	36	37	40	43	45			76	78	78	79	79	79	80	79	79	79	79
25	24	21	18	14	10	8	6	4			34	34	33	31	31	31	33	34	34			60	62	62	63	63	63	64	64	64	64	64
18	18	16	14	11	9	7	5	4			28	27	27	26	26	26	27	27	28			49	50	51	51	52	52	52	52	52	52	52
14	14	13	11	10	8	6	5	4			23	23	23	23	23	23	23	23	23			41	43	43	44	44	44	44	45	45	45	45
Floor											Floor											Floor										

*Units located 3' from wall. Data provided for RWW-232MI Unit

ORDERING INFORMATION

Sample Number: RWW-232MI-120V-EB81-U

Series RWW =Recessed Wall Wash		Number of Lamps 1 =1 Lamp 2 =2 Lamps T1 =2' x 4' fixture with one Biac Lamp at each end		Louver Finish I =Semi-Specular/Haze (Low Iridescent) Standard MI =Specular/Mirrored (Low Iridescent)		Ballast Type ³ Blank =Standard Magnetic Biac Ballast EB =Electronic Instant Start ER =T8 Electronic Program Rapid Start. Total Harmonic Distortion < 10% TEB = T5 Biac Elec Instant Start. Total Harmonic Distortion < 10% DLS = Digital Lighting System Dimming		Options PLUS =Higher Ballast Factor > 1.13. Total Harmonic Distortion < 20% RLS = Rotor Lock Socket (T8 Lamp only) RIF1 = Radio Interference Suppressor REP = Riveted End Plates		Packaging U =Unit Pack PALC =Palletized Fixtures in Carton		
		Wattage 32 = 32W T8 (48") BX40 = 40W Biac (24") ^{1, 2} BX50 = 50W Biac (24") ^{1, 2} BX55 = 55W Biac (24") ^{1, 2}		Voltage ³ 120V = 120 Volt 277V = 277 Volt 347V = 347 Volt UNV = Universal 120/277 ⁴ Voltage		Lamp Size 5 = T5 Biac 8 = T8						
				Options GL = Single Element Fuse GM = Double Element Fuse EL = Emergency Installed		Number of						
										ACCESSORIES TBW2 = Thin White Baffle Accessory (2' Fixture) ⁴ TBW4 = Thin White Baffle Accessory (4' Fixture) ⁴ CAL2 = Clear Acrylic Lens (2' Fixture) CAL4 = Clear Acrylic Lens (4' Fixture) DF-104-W = 4' Version Drywall Frame Kit		
Notes: 1 Electronic Ballast only.												