

DESCRIPTION

The Class R2 Series by Corelite offers a shallow recessed design, ideal for plenum-restricted applications and low-ceiling environments. The Class R2 Series has been optically engineered to provide low-brightness ambient illumination and to accommodate a variety of innovative shielding options, including a unique linear prismatic frosted lens, bladed micro baffle, and two styles of perforated overlays. The dedicated T5 design of the Class R2 Series offers superior lumens per watt when compared with traditional 3T8 or twin tube luminaires.

Catalog #		Type
Project		
Comments		Date
Prepared by		

SPECIFICATION FEATURES

A ... Construction

Low profile housing die-formed 20 gauge cold rolled steel with integral one-piece 20 gauge gear tray.

B ... Reflectors

High reflectance white powder coat painted reflector system.

C ... Shielding

Linear prismatic clear acrylic lens with white internal bladed micro baffle. Lens is designed to provide low glare ambient illumination while creating evenly luminous side reflectors. Lens secured to housing via injection molded inserts for easy lamp access.

D ... Electrical

T5/T5HO fixtures are pre-wired with quick wire connectors and use UL listed Class P, T5/T5HO program rapid start universal voltage electronic ballasts, power factor of 97% with less than 10% THD. Fixtures and electrical components certified to UL and CUL standards.

E ... Finish

Fixture housings are standard white using electrostatically applied polyester powder coat paint.

Mounting

Standard flange design works with most lay-in ceiling types. Integral pryout tabs secure luminaire to ceiling grid from above. Fixture offers tie-in locations for tie-wire on all corners, consult local code for appropriate tie-wire recommendations.

NOTE: Concealed Ceiling

Class R may be installed into inaccessible ceilings (sheet rock, wood panel, etc.). This is achieved with the Metalux DFW series drywall frame-in kit, ordered separately from Metalux. Specify "CC" for the Corelite Ceiling Type. Specify the following part numbers separately, from Metalux:
 For 1x4, order Metalux part # DF-14W-U
 For 2x2, order Metalux part # DF-22W-U
 For 2x4, order Metalux part # DF-24W-U

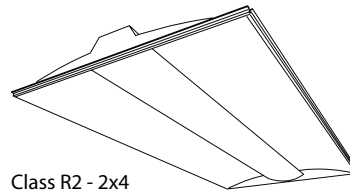


CLASS R2 Micro Baffle

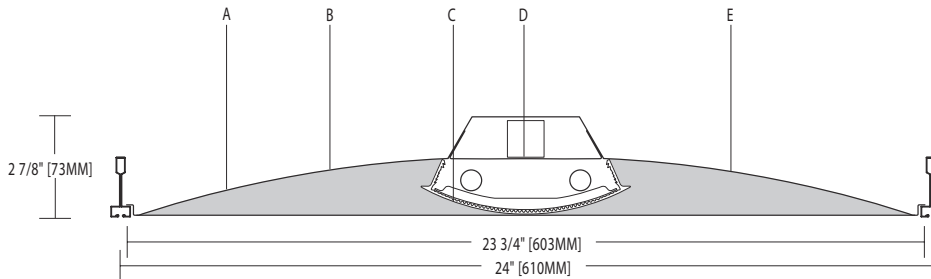
2T5
2T5HO

2'x4' Shallow Recessed
2-7/8" Depth

Fixture Efficiency: 78.5%



Class R2 - 2x4



ORDERING INFORMATION

Sample Number: R2-WB-2T5-1C-UNV-24-T1

Series R2: Class R2	Shielding B: Micro Baffle	Lamp Type N5: T5 Normal Output T5: T5 High Output	Wiring ¹ B: Battery Pack C: Standard Circuit D: Dimming / Step Dimming E: Emergency T: Nightlight Y: Daylight	Voltage ¹ 120: 120V 277: 277V 347: 347V UNV: Universal (120V-277V)	Ceiling Type T1: 1" Grid, Slot-Grid, 9/16" Tegular T9: 9/16" Grid CC: Concealed Ceiling	Options ¹ AR: Air Return CP: Chicago Plenum NY: New York City Construction AM: Anti-Microbial Coating LG: Lens Gasketing SD: Step Dimming W6: 6' Whip Flex W12: 12' Whip Flex
Reflector W: White	Number of Lamps 2: 2 Lamps	Number of Circuits ¹ 1: 1 Circuit 2: 2 Circuits	Size 24: 2' x 4'			

Notes: 1 Not all options available. Please consult your Cooper Lighting Representative for availability. Specifications and dimensions subject to change without notice.

DESCRIPTION

The Class R2 Series by Corelite offers a shallow recessed design, ideal for plenum-restricted applications and low-ceiling environments. The Class R2 Series has been optically engineered to provide low-brightness ambient illumination and to accommodate a variety of innovative shielding options, including a unique linear prismatic frosted lens, bladed micro baffle, and two styles of perforated overlays. The dedicated T5 design of the Class R2 Series offers superior lumens per watt when compared with traditional 3T8 or twin tube luminaires.

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Project		
Comments		Date
Prepared by		

SPECIFICATION FEATURES

A ... Construction

Low profile housing die-formed 20 gauge cold rolled steel with integral one-piece 20 gauge gear tray.

B ... Reflectors

High reflectance white powder coat painted reflector system.

C ... Shielding

Linear prismatic clear acrylic lens with white internal bladed micro baffle. Lens is designed to provide low glare ambient illumination while creating evenly luminous side reflectors. Lens secured to housing via injection molded inserts for easy lamp access.

D ... Electrical

T5/T5HO fixtures are pre-wired with quick wire connectors and use UL listed Class P, T5/T5HO program rapid start universal voltage electronic ballasts, power factor of 97% with less than 10% THD. Fixtures and electrical components certified to UL and CUL standards.

E ... Finish

Fixture housings are standard white using electrostatically applied polyester powder coat paint.

Mounting

Standard flange design works with most lay-in ceiling types. Integral pryout tabs secure luminaire to ceiling grid from above. Fixture offers tie-in locations for tie-wire on all corners, consult local code for appropriate tie-wire recommendations.

NOTE: Concealed Ceiling

Class R may be installed into inaccessible ceilings (sheet rock, wood panel, etc.). This is achieved with the Metalux DFW series drywall frame-in kit, ordered separately from Metalux. Specify "CC" for the Corelite Ceiling Type. Specify the following part numbers separately, from Metalux:
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 For 2x2, order Metalux part # DF-22W-U
 For 2x4, order Metalux part # DF-24W-U

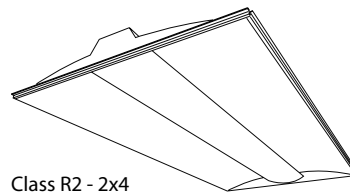


CLASS R2 Micro Baffle

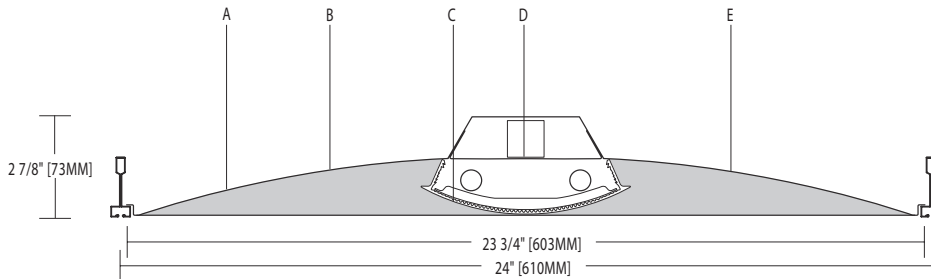
2T5
2T5HO

2'x4' Shallow Recessed
2-7/8" Depth

Fixture Efficiency: 78.5%



Class R2 - 2x4



ORDERING INFORMATION

Sample Number: R2-WB-2T5-1C-UNV-24-T1

Series R2: Class R2	Shielding B: Micro Baffle	Lamp Type N5: T5 Normal Output T5: T5 High Output	Wiring ¹ B: Battery Pack C: Standard Circuit D: Dimming / Step Dimming E: Emergency T: Nightlight Y: Daylight	Voltage ¹ 120: 120V 277: 277V 347: 347V UNV: Universal (120V-277V)	Ceiling Type T1: 1" Grid, Slot-Grid, 9/16" Tegular T9: 9/16" Grid CC: Concealed Ceiling	Options ¹ AR: Air Return CP: Chicago Plenum NY: New York City Construction AM: Anti-Microbial Coating LG: Lens Gasketing SD: Step Dimming W6: 6' Whip Flex W12: 12' Whip Flex
Reflector W: White	Number of Lamps 2: 2 Lamps	Number of Circuits ¹ 1: 1 Circuit 2: 2 Circuits	Size 24: 2' x 4'			

Notes: 1 Not all options available. Please consult your Cooper Lighting Representative for availability. Specifications and dimensions subject to change without notice.

DESCRIPTION

The Class R1 Series by Corelite offers an ultra shallow recessed design, ideal for plenum-restricted applications and low-ceiling environments. The Class R1 Series has been optically engineered to provide low-brightness ambient illumination and to accommodate a variety of innovative shielding options, including a unique linear prismatic frosted lens, bladed micro baffle, and two styles of perforated overlays. The dedicated T5 design of the Class R1 Series offers superior lumens per watt when compared with traditional 3T8 or twin tube luminaires.

Catalog #		Type
Project		
Comments		Date
Prepared by		

SPECIFICATION FEATURES

A ... Construction

Low profile housing die-formed 20 gauge cold rolled steel with integral one-piece 20 gauge gear tray.

B ... Reflectors

High reflectance white powder coat painted reflector system.

C ... Shielding

Linear prismatic clear acrylic lens with white internal bladed micro baffle. Lens is designed to provide low glare ambient illumination while creating evenly luminous side reflectors. Lens secured to housing via injection molded inserts for easy lamp access.

D ... Electrical

T5/T5HO fixtures are pre-wired with quick wire connectors and use UL listed Class P, T5/T5HO program rapid start universal voltage electronic ballasts, power factor of 97% with less than 10% THD. Fixtures and electrical components certified to UL and CUL standards.

E ... Finish

Fixture housings are standard white using electrostatically applied polyester powder coat paint.

Mounting

Standard flange design works with most lay-in ceiling types. Integral pryout tabs secure luminaire to ceiling grid from above. Fixture offers tie-in locations for tie-wire on all corners, consult local code for appropriate tie-wire recommendations.

NOTE: Concealed Ceiling

Class R may be installed into inaccessible ceilings (sheet rock, wood panel, etc.). This is achieved with the Metalux DFW series drywall frame-in kit, ordered separately from Metalux. Specify "CC" for the Corelite Ceiling Type. Specify the following part numbers separately, from Metalux:
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 For 2x2, order Metalux part # DF-22W-U
 For 2x4, order Metalux part # DF-24W-U

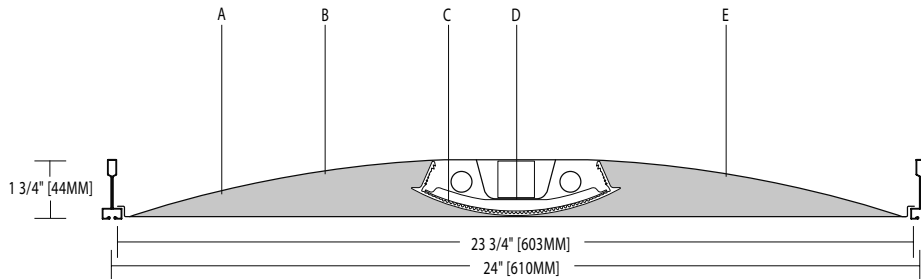
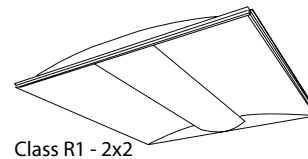


**CLASS R1
Micro Baffle**

2T5
2T5HO

**2'x2' Ultra Shallow
Recessed
1-3/4" Depth**

Fixture Efficiency: 78.0%



ORDERING INFORMATION

Sample Number: R1-WB-2N5-1C-UNV-22-T1

Series R1: Class R1	Shielding B: Micro Baffle	Lamp Type N5: T5 Normal Output T5: T5 High Output	Wiring ¹ C: Standard Circuit D: Dimming / Step Dimming E: Emergency T: Nightlight Y: Daylight	Voltage ¹ 120: 120V 277: 277V 347: 347V UNV: Universal (120V-277V)	Ceiling Type T1: 1" Grid, Slot-Grid, 9/16" Tegular T9: 9/16" Grid CC: Concealed Ceiling	Options ¹ AR: Air Return CP: Chicago Plenum NY: New York City Construction AM: Anti-Microbial Coating LG: Lens Gasketing SD: Step Dimming W6: 6' Whip Flex W12: 12' Whip Flex
Reflector W: White	Number of Lamps 2: 2 Lamps	Number of Circuits ¹ 1: 1 Circuit	Size 22: 2' x 2'			

Notes: 1 Not all options available. Please consult your Cooper Lighting Representative for availability. Specifications and dimensions subject to change without notice.

DESCRIPTION

Corelite's Class A Perf D/I suspended direct-indirect fluorescent luminaire combines classic design with an additional direct component via center downlight apertures. The engineered optical system provides a widespread uplight distribution for excellent ceiling uniformity and wide row spacing. The perforated fixture housing creates a soft downlight component to closely match the ceiling brightness, which minimizes contrast on computer screens. Class A Perf D/I may be mounted individually or continuously with 4', 8' and 12' modular sections. Luminaires align with T-Grid and interface with all ceiling types. Class A Perf D/I is suited for open offices, private offices, conference rooms, corridors, schools, libraries, labs and public

SPECIFICATION FEATURES

A ... Construction

Housing is one piece die-formed cold rolled steel, forming a 9" x 2-7/8" architectural profile. Two 13" long perforated baffle sections integrated with standard 1-5/8" blade spacing. Standard 4'-0", 8'-0", and 12'-0" fixture lengths combine for continuous runs.

B ... End Plates

Standard laser cut 14-gauge cold rolled steel, mechanically attached with no exposed fasteners. Optional die-cast aluminum end caps also available.

C ... Reflectors

Reflector pan is painted with a high reflectance white powder coat finish.

D ... Electrical

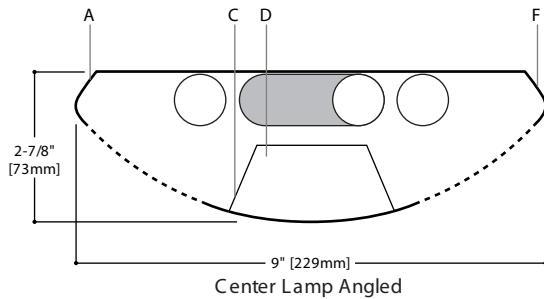
Fixtures are prewired with quick wire connectors and use UL listed Class P, 265ma T8 instant start universal voltage electronic ballasts. Power factor of 95% with less than 10% THD. Fixtures and electrical components certified to UL and CUL standards.

E ... Finish

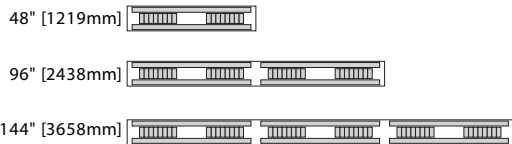
Fixture housings are standard white using electrostatically applied polyester powder coat paint.

Mounting

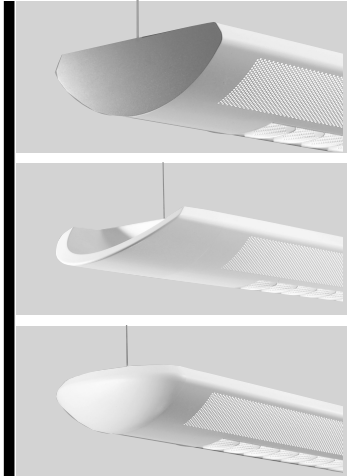
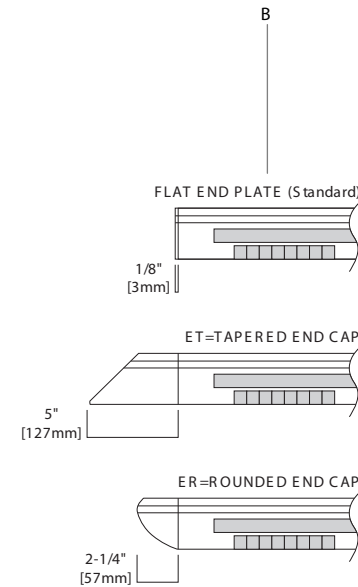
Standard aircraft cable mounts on 4'-0", 8'-0" and 12'-0" centers. Refer to installation section for various ceiling interface details and rigid pendant mounting details.



MODULES AND DIMENSIONS*



*Dimensions do not include end plates.



Class A Perf D/I

3T8

Suspended
Direct/Indirect

Light Distribution

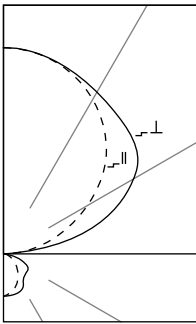
Indirect - 87.7%
Direct - 12.3%

ORDERING INFORMATION

Sample Number: AP-WB-3T8-1C-UNV-AC48-T1-12-ET

Series AP: Class A Perf D/I Suspended	Number of Lamps 3: 3 Lamps	Wiring ¹ B: Battery Pack C: Standard Circuit D: Dimming E: Emergency T: Nightlight Y: Daylight	Voltage ¹ 120: 120V 277: 277V 347: 347V UNV: Universal (120V-277V)	Suspension A: Aircraft Cable P: Rigid Pendant	Suspension Length Fixed Cable 12", 15", 18", 21", 24", or 27" (+/- 1/2" adjustment) Adjustable Cable 48", 120", 240", 300", or 360" (infinite adjustment along entire length of cable) Rigid Pendant ³ 12", 15", 18", 21", 24", or 27"	Ceiling Type T1: 1" T-Bar T9: 9/16" T-Bar TS: Slotted T-Bar ST: Structure JB: 4" Octagonal J-Box	Options ER: Rounded End Cap ET: Tapered End Cap
Optics Up W: White	Lamp Type T8: T8 Normal Output			Power Feed ¹ C: Straight Cord K: Curly Cord P: Rigid Pendant			
Optics Down B: Perforated Baffle T: Translucent Baffle M: Semi-Specular Louver	Number of Circuits ^{1, 2} 1: 1 Circuit 2: 2 Circuits					Run Length Individually Mounted Luminaires may be 4', 8', or 12' in length Continuously Mounted Standard row configurations over 12' consist of 8' and 12' sections	

Notes: ¹ Not all options available. Please consult your Cooper Lighting Representative for availability. Specifications and dimensions subject to change without notice.
² Only 1 ballast per 4' section.
³ Consult adder section of the price guide for additional standard lengths.



AP-WB-3T8
(3) F32T8/TL841
3000 Lumens

Efficiency 84.2%

Test Report
#LS113452

Coefficients of Utilization

rc	Effective floor cavity reflectance												0%								
	80%				70%				50%					30%				10%			
rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	83	83	83	83	72	72	72	72	53	53	53	35	35	35	18	18	18	18	18	18	00
1	75	72	69	66	66	63	60	57	46	44	43	30	30	29	16	16	15	15	15	15	10
2	68	63	58	54	60	55	51	48	40	38	35	27	25	24	14	14	13	13	13	13	09
3	63	55	50	45	55	48	44	40	36	33	30	24	22	21	13	12	11	11	11	11	08
4	57	49	43	38	50	43	38	34	36	28	26	21	19	17	11	11	10	10	10	10	07
5	52	43	37	32	46	38	33	29	28	25	22	19	17	15	10	09	08	08	08	08	06
6	48	39	32	28	42	34	29	25	25	22	19	17	15	13	09	08	07	07	07	07	05
7	44	35	28	24	38	30	25	21	23	19	16	15	13	11	08	07	06	06	06	06	04
8	41	31	25	21	35	27	22	19	20	17	14	14	12	10	07	06	06	06	06	06	03
9	38	28	22	18	33	25	20	16	18	15	12	12	10	09	07	06	05	05	05	05	03
10	35	25	20	16	31	22	18	14	17	13	11	11	09	08	06	05	04	04	04	04	03

Candela

Angle	Along II	45°	Across I
0	415	415	415
5	411	411	412
15	363	377	402
25	294	327	370
35	215	267	325
45	138	202	283
55	81	139	270
65	50	87	137
75	24	52	79
85	8	27	46
90	100	39	52
95	87	189	200
105	401	692	731
115	735	1071	1221
125	1049	1288	1516
135	1327	1442	1625
145	1567	1599	1689
155	1741	1745	1768
165	1856	1852	1841
175	1919	1910	1900
180	1921	1921	1921

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixture
0-30	297	3.30	3.92
0-40	463	5.15	6.12
0-60	757	8.42	9.99
0-90	932	10.36	12.30
40-90	468	5.21	6.18
60-90	175	1.95	2.31
90-180	6649	73.89	87.70
0-180	7582	84.25	100.00

Luminance Data

Angle in Deg	0-Deg cd/m	45-Deg cd/m	90-Deg cd/m
45	3255	4784	6706
55	2359	4064	7884
65	1993	3434	5452
75	1563	3336	5146
85	1522	5113	8788

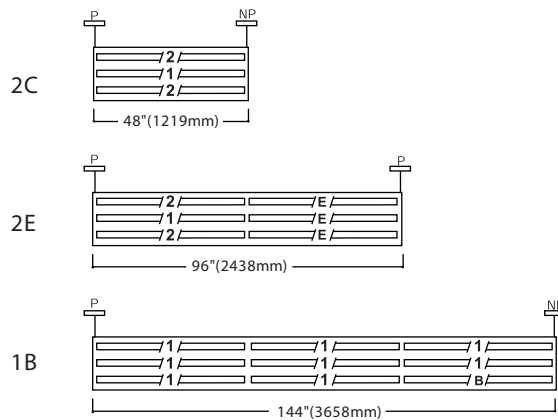
COMMON CIRCUIT CONFIGURATIONS FOR TWO LAMP SUSPENDED FIXTURE

2C=Two circuit luminaire
2E=Two circuit luminaire with emergency circuit
1B=Single circuit luminaire with battery pack

/1/ =Circuit 1
/2/ =Circuit 2
/E/ =Emergency Circuit
/B/ =Battery Circuit

=Power Mount

=Non-Power Mount



STANDARD ROW CONFIGURATIONS

FIXTURE LENGTH	4'	8'	12'	16'	20'	24'	28'	32'	36'	40'	44'	48'	52'	56'	60'	64'	68'	72'	76'	80'	84'	88'	92'	96'	100'	104'	108'		
4'	1																												
8'		1		2	1		2	1		2	1		2	1		2	1		2	1		2	1		2	1		2	1
12'			1		1	2	1	2	3	2	3	4	3	4	5	4	5	6	5	6	7	6	7	8	7	8	9		

DESCRIPTION

Low brightness 7-3/8" aperture lens downlight for use with (2)18W or 26W Quad Tube 4-pin compact fluorescent lamps. The deeply regressed lens provides superb shielding in comparison to shallow lenses. Reflector trim eliminates brightness at higher angles. Choice of lens types for various aesthetics. Open downlight, lens, and open wall wash trims are interchangeable within the same housing.

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SPECIFICATION FEATURES

A ... Reflector

Clear upper Alzak® reflector for maximum output. Positive reflector mounting, without tools, pulls trim tight to ceiling. Lower spun parabolic reflector, .050 thick aluminum, available in a variety of Alzak® finishes. Also available with white or black baffle.

B ... Lens

Choice of molded prismatic acrylic, opal diffuser, clear UV stabilized polycarbonate, prismatic glass, diffuse glass, clear glass or fresnel glass lens. Lens is fixed to lower reflector.

C ... Trim Ring Options

Self flanged or molded white trim ring.

D ... Socket Connector

One piece die cast aluminum connection allows venting

for maximum thermal performance.

E ... Housing Mounting Frame

One piece precision die cast aluminum 1-1/2" deep collar accommodates varying dimensions of ceiling materials.

F ... Universal Mounting Bracket

Accepts 1/2" EMT, C Channel, T bar fasteners, and bar hangers. Adjusts 5" vertically from above or below ceiling.

G ... Conduit Fittings

Die cast screw tight connectors.

H ... Junction Box

Listed for eight #12AWG (four in, four out) 90°C conductors feed

through branch wiring. For 1/2" and two 3/4" pry outs. Positioned to allow straight conduit runs. Access to junction box by removing reflector.

I ... Socket

26W lamps: 4-pin G24q3 base. 18W lamps: 4-pin G24q2 base. Bases have fatigue free stainless steel lamp spring to ensure positive lamp retention.

J ... Ballasts

Electronic ballast provides full light output and rated lamp life. Provides flicker free and noise free operation and starting.

Labels

cULus listed, C.S.A. certified, Wet label, IBEW union made.



**C7218, C7226
7281/7280**

**(2) 18W, 26W Quad
Compact Fluorescent**

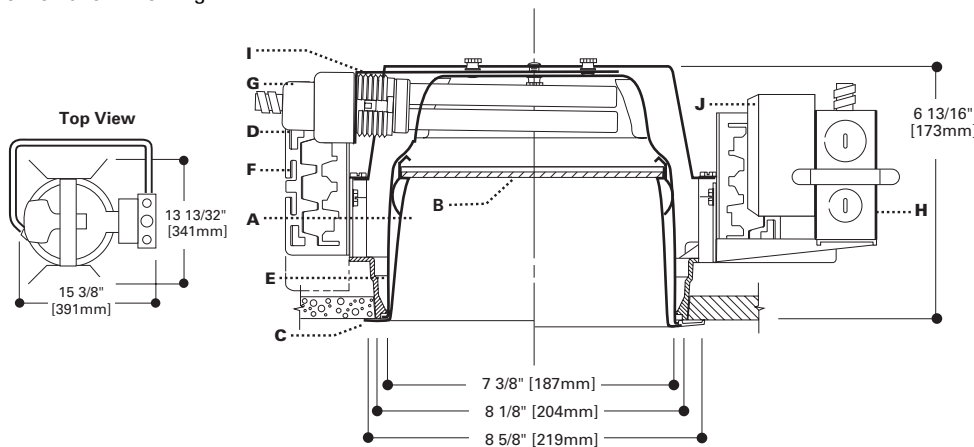
7-3/8" LENSED DOWNLIGHT

Energy Data

(2) 26W Quad 4-pin
Ballast: Electronic
120V input watts: 50, Line Amps: 0.45
277V Input Watts: 50, Line Amps: 0.20
Power Factor: >.99, THD: <10%
Min. Starting Temp.: -10°C (15°F)
Sound Rating: A

(2) 18W Quad 4-pin
Ballast: Electronic
120V input watts: 37, Line Amps: 0.32
277V Input Watts: 37, Line Amps: 0.14
Power Factor: >.99, THD: <10%
Min. Starting Temp.: -10°C (15°F)
Sound Rating: A

NOTES:
Accessories should be ordered separately. For additional options, please consult your Cooper Lighting Representative. Alzak is a registered trademark of Aluminum Company of America.



ORDERING INFORMATION

Sample Number: Complete unit consists of housing, ballast and trim.

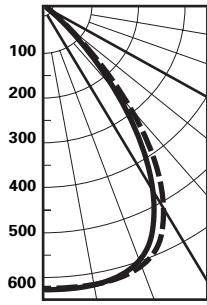
<p>Housing C7= 7" Horizontal Lamp</p> <p>Number of Lamps 2= 2 Lamps</p> <p>Wattage 18= 18W DTT Lamp 26= 26W DTT Lamp</p>	<p>Ballast E= 120/277V 50/60 Hz Electronic 3E= 347V 50/60 Hz Electronic 1D= 120V Dimming Ballast 2D= 277V Dimming Ballast</p>	<p>Options CP= Chicago Plenum EM= Emergency Module with remote test switch 2C= (2) ballasts for Hi-Low Switching 2CMS= 2 Circuit Master Satellite (2 housings, order 2 trims)</p>	<p>Trims 7281= Self Flanged 7280= Lens, Molded Trim Ring</p>	<p>Finish LI= Low Iridescent Clear H= Haze WMH= Warm Haze G= Gold WH= Wheat W= Gloss White GP= Graphite GPH= Graphite Haze K= Cognac KH= Cognac Haze BB= Black Baffle (7280 only) WB= White Baffle (7280 only)</p>	<p>Lens 1= Prismatic Lens 2= Diffuse Lens 3= Clear Lens 1G= Prismatic Glass 2G= Diffuse Glass 3G= Clear Glass 4G= Fresnel Glass</p>	<p>Option WF= White Painted Flanged (Self Flanged only)</p>	<p>Accessories HB26= C Channel Bar Hangers, 26" Long, Pair HB50= C Channel Bar Hangers, 50" Long, Pair FK5= 5 Amp Field Installable Fuse Kit 300V Max RMB-22= Wood Joist Bar Hanger, 22" Long, Pair HSA7= Slope Adapter for 7" Aperture Housings, Specify Slope</p>
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Specifications and Dimensions subject to change without notice.

Consult your representative for additional options and finishes.

PHOTOMETRICS

Candlepower Distribution



Test No. H23198
C7218-7281LI 1
 Reflector with Prismatic Lens
 Lamp=(2)18W DTT
 Lumens=1250 each
 Spacing Criteria= 0°=1.2, 90°=1.2
 Efficiency=41.8%

Candlepower

Deg.	CD 0°	90°
0	633	633
5	637	631
15	641	635
25	574	595
35	397	448
45	186	221
55	81	86
65	11	11
75	0	0
85	0	0
90	0	0

Average Luminance

Deg.	CD/SQ M 0°	90°
45	9520	11346
55	5110	5413
65	961	935
75	0	0
85	0	0

Cone of Light

Distance to Illuminated Plane	Initial Nadir Footcandles	Beam Diameter
5'6"	21	7'0"
6'6"	15	8'0"
8'0"	10	10'0"
10'0"	6	12'6"
12'0"	4	15'0"
14'0"	3	17'6"

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.

Reflector Multiplier:
 Haze=.98
 Straw=.99
 Wheat=.95

EM Multiplier (in emergency mode)
 EM=.26

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Luminaire
0-30	509	20.3	48.6
0-40	772	30.9	73.8
0-60	1010	40.4	96.6
0-90	1046	41.8	100.0
90-180	0	0.0	0.0
0-180	1046	41.8	100.0

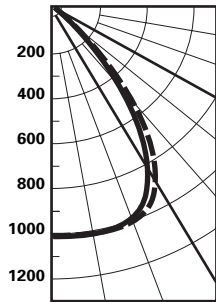
Coefficient of Utilization

rc	80%				70%				50%		30%		10%		0%
	rw	70	50	30	10	50	30	10	50	10	50	10	50	10	0
RCR															
0	50	50	50	50	49	49	49	46	46	45	45	43	43	42	
1	47	46	45	44	45	44	43	43	42	42	41	40	39	39	
2	45	43	41	39	42	40	39	41	38	39	37	38	36	36	
3	42	39	37	35	39	37	35	38	34	37	34	36	33	33	
4	40	36	34	32	36	34	32	35	31	34	31	33	31	30	
5	37	34	31	29	33	31	29	32	29	32	28	31	28	27	
6	35	31	28	26	31	28	26	30	26	30	26	29	26	25	
7	33	29	26	24	28	26	24	28	24	27	24	27	23	23	
8	31	27	24	22	26	24	22	26	22	25	22	25	21	21	
9	29	24	22	20	24	22	20	24	20	23	20	23	20	19	
10	27	23	20	18	22	20	18	22	18	22	18	21	18	17	

rc=Ceiling reflectance, rw=Wall reflectance, RCR=Room cavity ratio

CU Data Based on 20% Effective Floor Cavity Reflectance.

Candlepower Distribution



Test No. H23203
C7226-7281LI 1
 Reflector with Prismatic Lens
 Lamp=(2)26W DTT
 Lumens=1800 each
 Spacing Criteria= 0°=1.2, 90°=1.3
 Efficiency=47.0%

Candlepower

Deg.	CD 0°	90°
0	1002	1002
5	995	1018
15	1015	1026
25	924	962
35	643	735
45	301	365
55	130	142
65	19	26
75	3	3
85	0	0
90	0	0

Average Luminance

Deg.	CD/SQ M 0°	90°
45	15440	18723
55	8221	8980
65	1631	2231
75	420	420
85	0	0

Cone of Light

Distance to Illuminated Plane	Initial Nadir Footcandles	Beam Diameter
5'6"	33	7'0"
6'6"	24	8'0"
8'0"	16	10'0"
10'0"	10	12'6"
12'0"	7	15'0"
14'0"	5	17'6"

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.

Reflector Multiplier:
 Haze=.96
 Straw=.99
 Wheat=.95

EM Multiplier (in emergency mode)
 EM=.18

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Luminaire
0-30	811	22.5	48.0
0-40	1239	34.4	73.3
0-60	1631	45.3	96.4
0-90	1691	47.0	100.0
90-180	0	0.0	0.0
0-180	1691	47.0	100.0

Coefficient of Utilization

rc	80%				70%				50%		30%		10%		0%
	rw	70	50	30	10	50	30	10	50	10	50	10	50	10	0
RCR															
0	56	56	56	56	55	55	55	52	52	50	50	48	48	47	
1	53	52	50	49	51	50	48	49	47	45	44	45	44	43	
2	50	48	46	44	47	45	44	45	43	44	42	43	41	40	
3	47	44	42	40	43	41	39	42	39	41	348	40	37	37	
4	45	41	38	36	40	38	36	39	35	38	35	37	34	34	
5	42	38	35	32	37	34	32	36	32	36	32	35	31	31	
6	39	35	32	30	34	32	29	34	29	33	29	32	29	28	
7	37	32	29	27	32	29	27	31	26	31	26	30	26	25	
8	35	30	26	24	29	26	24	29	24	28	24	28	24	23	
9	32	27	24	22	27	24	22	27	22	26	22	26	22	21	
10	30	25	22	20	25	22	20	25	2-	24	20	24	20	19	

rc=Ceiling reflectance, rw=Wall reflectance, RCR=Room cavity ratio

CU Data Based on 20% Effective Floor Cavity Reflectance.

DESCRIPTION

The All Pro Series exit (AP60/70) is the most economical LED exit for general purpose applications. The durable, injection molded, thermoplastic material resists discoloration due to UV radiation and the energy efficient, low maintenance LED's provide bright illumination. All AP series exits offer universal configurations (single and double face) and have universal mounting capability (ceiling, wall, end).

Catalog #		Type
Project		
Comments		Date
Prepared by		

SPECIFICATION FEATURES

Electrical

- Dual Voltage Input
120/277 VAC, 60Hz
- Solid-state Voltage Limited charger (AP70)
- Brownout circuit (AP70)
- Test Switch/Power Indicator Light (AP70)

Housing Construction

- All components are injection molded, color stable, high impact thermoplastic material
- Designer white textured finish standard
- Components are of snap-fit construction to facilitate under 5-minute installation
- Reinforcing ribs throughout to provide maximum strength
- Molded-in wireways facilitate internal wire routing and connections

- All components including battery and electronics are located inside the exit housing
- Snap-out or snap-in chevron directional indicators have full 3/4" stroke
- Universal exits can be field configured as single face or double face
- Snap-fit canopy with mounting screws included with all exits
- Exit can be ceiling, wall, or end mounted
- Universal J-box mounting pattern

Battery (AP70)

- Sealed Nickel Cadmium
- Maintenance-free, Long-life
- Full recharge time, 24 hrs. (max.)

Code Compliance

- UL 924 Listed
- Damp Location
- Life Safety NFPA 101
- NEC/OSHA
- Most State and Local Codes

Warranty

- Exit: 5-Year
- Battery: 15-Year, pro-rata (Nickel Cadmium, AP70)

Lamp Data

- AC LED: Long-life LED lamps provide uniform diffused illumination
- DC: LED DC lamps (Brighter in emergency mode, AP70)



AP SERIES

**THERMOPLASTIC EXIT
AC ONLY
SELF-POWERED
EMERGENCY LED LAMPS
Exit Lighting**

ENERGY DATA

Sealed Nickel Cadmium Battery

LED Exits - Red	LED Exits - Green
Input Power: 120V = 2.3W 277V = 2.3W	Input Power: 120V = 2.0W 277V = 2.0W
Input Current (Max.): 120V = .02A 277V = .01A	Input Current (Max.): 120V = .02A 277V = .01A
Power Factor: 120V = >.8 277V = >.8	Power Factor: 120V = >.8 277V = >.8

ENERGY DATA

AC Only

LED Exits - Red	LED Exits - Green
Input Power: 120V = 2.0W 277V = 2.0W	Input Power: 120V = 1.3W 277V = 1.2W
Input Current (Max.): 120V = .02A 277V = .01A	Input Current (Max.): 120V = .02A 277V = .01A
Power Factor: 120V = >.8 277V = >.8	Power Factor: 120V = >.7 277V = >.7

ORDERING INFORMATION

Family AP6: AC only LED, All Pro Exit AP7: Self-Powered with LED, All Pro Exit	Letter Colors R: Red G: Green	Voltage ___ = 120 / 277V
Face Options 0: Universal	Housing Finish ___ = White	Accessories ² Protective Housing VS: Polycarbonate Vandal Shield ³ WG: Wire Guard ⁴
Battery ___ = Nickel Cadmium ¹		

Notes: 1 Nickel Cadmium for AP70 only. 2 Order separately. 3 Choose polycarbonate vandal shield desired from accessories sheet. 4 Choose size of wire guard from accessories sheet.

TECHNICAL DATA

Lamps

Self-Powered LED versions of the All Pro Emergency Series Exits use energy efficient, long life LED's to provide uniform diffuse illumination of the exit face. Both the red and green LEDs require no maintenance and consume a total of 3.0 watts. The low operating costs and zero maintenance requirement makes LED lamps the wisest choice for exit signs today. Emergency illumination is provided by LED lamps.

Housing Construction

Rugged, durable, injection molded thermoplastic materials are used throughout the All Pro Emergency Series Exits. All structural components are designed with reinforcing ribs to add additional rigidity and to maximize structural integrity. These materials are impact and scratch resistant, and they have been UV stabilized to resist discoloration due to age and ultraviolet radiation. All components are designed to be of snap-fit construction - no mechanical fasteners - to facilitate installation in under 5-minutes. Any components required for installation (wirenuts, wire leads, universal

metal J-box bracket, etc.) are all included with each exit.

The universal design of the All Pro Series Exits enables universal exits to be configured as single face or double face in the field. All Self-Powered All Pro Series Exits can be wall, ceiling, or end mounted; a rugged, snap-fit, low profile canopy with captive screws is included with every exit for ceiling and end mounting applications.

Lens

Lenses for Self-powered versions of the All Pro Series Exits are made from durable impact resistant thermoplastic. All exit faces are designed with full 3/4" stroke snap-out or snap-in chevron directional indicators to insure maximum visibility and compliance with the latest codes.

Solid-State Charger (AP70)

Supplied with a 120/277 VAC, voltage regulated solid-state charger. Immediately upon restoration of AC current after a power failure, the charger provides a high charge rate. The charge circuit reacts to the condition of the battery and regulates the charging process in order to maintain peak battery capacity and maximize

battery life. Solid-state construction recharges the battery following a power failure in accordance with UL 924.

Brownout Circuit (AP70)

The brownout circuit on All Pro exits monitors the flow of AC current to the exit and activates the emergency lighting system when a predetermined reduction of AC power occurs. This dip in voltage will cause most ballasted fixtures to extinguish causing loss of normal lighting even though a total power failure has not occurred.

Test Switch/Power Indicator Light (AP70)

A test switch located on the side of the exit permits the activation of the emergency circuit for a complete operational systems check. The Power Indicator Light provides visual assurance that the AC power is on.

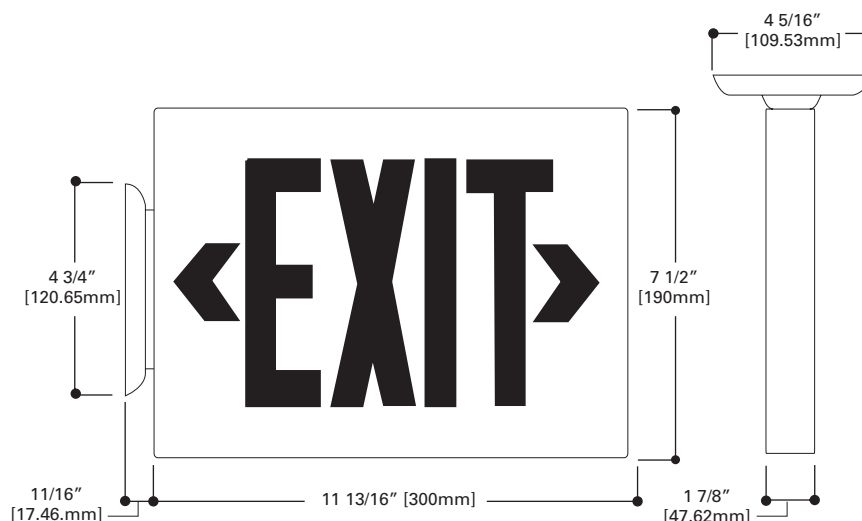
Sealed Nickel Cadmium Battery (AP70)

All Pro Emergency sealed nickel cadmium batteries are maintenance free with a life expectancy of 15 years. The sealed rechargeable nickel cadmium battery offers high discharge rates and stable performance over a wide range

of temperatures. The specially designed resealable vent automatically controls cell pressure, assuring safety and reliability. This battery is best suited for harsh ambient temperatures because the electrolyte is not active in the electrochemical process.

Warranty

The All Pro Series exit signs are backed by a firm (5) year warranty against defects in material and workmanship. In addition, the sealed nickel cadmium batteries carry a (15) year pro-rata warranty.



NOTES: See option/accessories or technical sections for additional detailed product data. Specifications and Dimensions subject to change without notice.