The Ovation Series is a complete family of recessed direct/indirect luminaires featuring pleasant modern architectural styling, computerdesigned optics and the latest energy efficient lamp and ballast technology. The luminaire combines a matte white indirect reflector and a perforated direct lamp shield to provide optimum brightness control. All components are located above the ceiling plane for a clean architectural appearance in the finished space. Carefully balanced design elements combine to provide an efficient and exciting alternative to traditional general lighting. Ovation is an excellent choice for a wide variety of commercial applications.

| Catalog \# |  | Type |
| :--- | :--- | :---: |
| Project |  |  |
| Comments |  |  |
| Prepared by |  |  |

## Reflectors

Indirect reflector has high reflectance baked matte white enamel finish for luminous uniformity. A positively retained direct lamp shield is constructed of heavy gauge perforated steel with high reflectance painted after fabrication finish and milky white overlay diffuser for visual comfort. All reflectors are precision formed in a computer-controlled opertion.

## Controls

Fifth Light ballast options are offered for both $0-10 \mathrm{~V}$ continuous dimming and DALI applications. Combine with energysaving products like occupancy sensors, daylighting controls, and lighting relay panels from Cooper Controls(www.coopercontrol.com) to maximize energy savings.


LAMP CONFIGURATIONS
MOUNTNG DATA


CEILING COMPATIBILITY


COOPER LIGHTING

## ENERGY DATA

Input Watts:
EB Ballast \& STD Lamps 1BX40 (43), 2BX40 (67), 3BX40 (102) 1BX50 (54), 2BX50 (106), 3BX50 (160) 1BX55 (59), 2BX55 (117), 3BX55 (176) 117 (19), 217 (34), 317 (54)

ES Ballast \& STD Lamps
117 (23), 217 (45), 317 (68)
STD Ballast \& STD Lamps 1BX40 (46), 2BX40 (82), 3BX40 (128)
Luminaire Efficacy Rating
LER = FL65
Catalog Number: 2RDI-2BX40RP
Yearly Cost of 1000 lumens,
3000 hrs at $.08 \mathrm{KWH}=\$ 3.69$
*Reference the lamp/ballast data in the Technical Section for specific lamp/ballast requirements.
${ }^{* *}$ Consult Pre Sales Technical Support.
***See Drywall Frame Kit Accessory
LAMPS CONTAIN MERCURY. DISPOSE ACCORDING TO LOCAL, STATE OR FEDERAL LAWS

## PHOTOMETRICS



2RDI-2BX40RP Electronic Ballast F40BX/35K/RS Lamps 3150 Lumens
Spacing criterion: (II) $1.2 \times$ mounting height, ( $\perp$ ) 1.3 x mounting height Efficiency 78.2\%
Test Report: 2RDI2BX40RP.IES

Coefficients of Utilization

| Effective floor cavity reflectance |  |  |  |  |  |  |  |  | 20\% |  |  |  |  |  | 10\% |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| rc | 80\% |  |  |  | 70\% |  |  |  | 50\% |  |  | 30\% |  |  |  |  |  |  |
| rw | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 |
| RCR |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0 | 93 | 93 | 93 | 93 | 91 | 91 | 91 | 91 | 87 | 87 | 87 | 83 | 83 | 83 | 80 | 80 | 80 | 78 |
| 1 | 86 | 82 | 79 | 76 | 84 | 81 | 78 | 75 | 77 | 75 | 73 | 74 | 72 | 71 | 71 | 70 | 69 | 67 |
| 2 | 79 | 73 | 68 | 63 | 77 | 71 | 66 | 63 | 68 | 64 | 61 | 66 | 63 | 60 | 63 | 61 | 58 | 57 |
| 3 | 72 | 64 | 58 | 53 | 70 | 63 | 57 | 53 | 61 | 56 | 52 | 59 | 55 | 51 | 57 | 53 | 50 | 49 |
| 4 | 66 | 57 | 51 | 46 | 64 | 56 | 50 | 45 | 54 | 49 | 45 | 52 | 48 | 44 | 51 | 47 | 43 | 42 |
| 5 | 60 | 50 | 44 | 38 | 59 | 50 | 43 | 38 | 48 | 42 | 38 | 46 | 41 | 37 | 45 | 41 | 37 | 35 |
| 6 | 55 | 45 | 38 | 33 | 54 | 44 | 38 | 33 | 43 | 37 | 33 | 42 | 36 | 33 | 40 | 36 | 32 | 31 |
| 7 | 51 | 40 | 34 | 29 | 50 | 40 | 33 | 29 | 39 | 33 | 29 | 37 | 32 | 28 | 36 | 32 | 28 | 27 |
| 8 | 47 | 36 | 30 | 25 | 46 | 36 | 29 | 25 | 35 | 29 | 25 | 34 | 28 | 25 | 33 | 28 | 24 | 23 |
| 9 | 43 | 32 | 26 | 21 | 42 | 32 | 26 | 21 | 31 | 25 | 21 | 30 | 25 | 21 | 29 | 25 | 21 | 20 |
| 10 | 40 | 29 | 23 | 19 | 39 | 29 | 23 | 19 | 28 | 23 | 19 | 28 | 22 | 19 | 27 | 22 | 19 | 17 |

Zonal Lumen Summary

| Zone | Lumens | \%Lamp | \%Fixture |
| :--- | :---: | :---: | :---: |
| $0-30$ | 1339 | 21.2 | 27.2 |
| $0-40$ | 2205 | 35.0 | 44.8 |
| $0-60$ | 3932 | 62.4 | 79.8 |
| $0-90$ | 4926 | 78.2 | 100.0 |
| $0-180$ | 4926 | 78.2 | 100.0 |


| Typical VCP | Percentages |  |  |  |
| :--- | ---: | ---: | ---: | :---: |
|  | Height Along |  | Height Across |  |
| Room Size (Ft.) | $\mathbf{8 . 5}^{\prime}$ | $\mathbf{1 0 . 0}^{\prime}$ | $\mathbf{8 . 5}^{\prime}$ | $\mathbf{1 0 . 0}^{\prime}$ |
| $20 \times 20$ | 48 | 54 | 41 | 48 |
| $30 \times 30$ | 44 | 46 | 38 | 40 |
| $30 \times 60$ | 43 | 43 | 35 | 35 |
| $60 \times 30$ | 47 | 48 | 43 | 45 |
| $60 \times 60$ | 44 | 44 | 38 | 38 |

Candela

| Angle | Along II | $\mathbf{4 5}^{\circ}$ | Across $\perp$ |
| :--- | :---: | :---: | :---: |
| 0 | 1701 | 1701 | 1701 |
| 5 | 1701 | 1698 | 1700 |
| 10 | 1677 | 1682 | 1689 |
| 15 | 1634 | 1648 | 1665 |
| 20 | 1574 | 1599 | 1631 |
| 25 | 1497 | 1539 | 1587 |
| 30 | 1406 | 1468 | 1533 |
| 35 | 1301 | 1386 | 1465 |
| 40 | 1182 | 1292 | 1381 |
| 45 | 1052 | 1186 | 1282 |
| 50 | 912 | 1067 | 1167 |
| 55 | 762 | 933 | 1029 |
| 60 | 610 | 792 | 867 |
| 65 | 465 | 637 | 683 |
| 70 | 334 | 466 | 520 |
| 75 | 217 | 305 | 362 |
| 80 | 119 | 176 | 205 |
| 85 | 48 | 66 | 72 |
| 90 | 0 | 0 | 0 |
|  |  |  |  |

LER = FL65
Yearly Cost of 1000 lumens, 3000 hrs at . 08 KWH = \$3.69

## SAMPLE NUMBER: 2RDI-2BX40RP-120V-EB51-U




## Ballast Type

Blank=Standard Magnetic Ballast (40W Biax only)
EB8_=T8 Electronic Start.
Total Harmonic Distortion < 10\%
EB8_/PLUS=T8 Electronic Start.
Total Harmonic Distortion < 10\%.
High Ballast Factor > 1.15

ER8_=T8 Electronic Program Rapid Start. Total Harmonic Distortion < 10\%
EB5_=T5 Biax Electronic Instant Start Total Harmonic Distortion < 20\% ${ }^{(3)}$
TEB5_=T5 Biax Electronic Instant Start Total Harmonic Distortion $<10 \%{ }^{(3)}$
ER5_=T5 Biax Electronic Program Rapid Start. Total Harmonic Distortion < 10\%
High Performance T8 Ballasts
HB8_=T8 Electronic Instant Start. Total Harmonic Distortion < 10\%. Standard Ballast Factor .86-. 88
HB8_L=T8 Electronic Instant Start. Total Harmonic Distortion $<10 \%$. Low Ballast Factor . 77 - . 82
HB8_N=T8 Electronic Instant Start. Total Harmonic Distortion < 10\%. Normal Ballast Factor 1.0
HB8_H=T8 Electronic Instant Start. Total Harmonic Distortion < 10\%. High Ballast Factor 1.15-1.20
HR8_T8 Electronic Program Rapid Start. Total Harmonic Distortion < 10\%. Standard Ballast Factor . $86-.88$
HR8_DIM=T8 Electronic Program Rapid Start. Total Harmonic Distortion $<10 \%$. Step Dimming. Ballast Factor . 88
NOTES: ${ }^{(1)} 2^{\prime} \times 2^{\prime}$ and $2^{\prime} \times 4^{\prime}$ Center Lamp Shield models only ${ }^{(2)}$ Products also available in non-US voltages and frequencies for international markets. ${ }^{(3)}$ Not available in UNV voltages.
Must specify voltage ${ }^{(4)}$ An EQ Grid Clip is recommended for all $9 / 16{ }^{(1)}$ ceiling systems. Four required per fixture. ${ }^{[5)}$ For a complete listing of Fifthlight Technology products and other solutions from Cooper Controls, visit www.coopercontrol.com. ${ }^{(6)} 0-10 \mathrm{~V}$ ballast do not include DALI feature. Please select DALI ballast for use with Fifth Light system. ${ }^{(7)}$ Specification grade 0-10V dimming ballast are NEMA premium and CEE listed. They are compatible with low mercury and energy saving lamps. ${ }^{(8)}$ Specification Grade 0-10V ballast not available for Biax lamps. ${ }^{(9)}$ Specification Grade 010 V ballast not offered in 3 or 4 -lamp versions. ${ }^{(10)}$ Standard $0-10 \mathrm{~V}$ ballast not available for Biax lamps. ${ }^{(11)}$ Standard $0-10 \mathrm{~V}$ ballast not offered in 3 or 4-lamp versions.
For complete product data, reference the Fluorescent Specification binder. Specifications \& dimensions subject to change without notice. Consult your Cooper Lighting Representative for availability and ordering information.

T8 Electronic Program Rapid Start. Total Harmonic Distortion < 10\%. Low Ballast Factor . 71 - . 79
HR8_H=T8 Electronic Program Rapid Start. Total Harmonic Distortion < 10\%. High Ballast Factor 1.15-1.20

## 0-10V Dimming Ballasts ${ }^{(6)}$

5LTV8=T8 0-10V Program Rapid Start. Total Harmonic Distortion < 10\%. Ballast Factor $0.87{ }^{(10),(11)}$
5LTVS8=T8 0-10V Spec Grade Program Rapid Start. Total Harmonic Distortion < $10 \%$. Ballast Factor $0.87^{(7), ~(8), ~(9) ~}$

## Fifth Light DALI Ballasts ${ }^{(5)}$

5LT8_=T8 DALI Program Rapid Start. Total Harmonic Distortion $<10 \%$. Ballast Factor 1.0
5LT5B_=T5 Biax DALI Program Rapid Start. Total Harmonic Distortion < 10\%. Ballast Factor 1.0

## Number of Ballasts <br> 1=1 Ballast <br> 2=2 Ballasts <br> 3=3 Ballasts



ACCESSORIES
EQ-CLIP-U=T-BAR Safety Earthquake Clips ${ }^{(4)}$ DF-22-W=Drywall Frame Kit

| Catalog No. | Wt. |
| :--- | :---: |
| 2RDI-1BX40RP | 19 lbs. |
| 2RDI-2BX40RP | 19 lbs. |
| 2RDI-3BX40RP | 19 lbs. |
| 2RDI-117RP | 19.5 lbs. |
| 2RDI-217RP | 19.5 lbs. |
| 2RDI-317RP | 19.5 lbs. |

