



PRIME

PRIME 4" LED ARCHITECTURAL ROUND FLANGED DOWNLIGHT

JOB INFORMATION	TYPE:
	CATALOG NO.
	PROJECT NAME:
	COMMENTS:
	PREPARED BY:

USE OF PRODUCT

The 4" Prime Downlight Series is the ideal product for architectural energy efficient lighting in commercial and residential applications. Available in an assortment of color temperatures, optics, lumen outputs, and dimmable driver options.

PRIME FEATURES

Color Temperature: 2700K, 3000K, 3500K, or 4000K
SDCM: 2 step binning
Color Rendering Index: 93+ CRI
Optical Lens: 18°, 30°, 50°, 80°
Trim: Die cast or anodized
LED Life: 50,000 Hours
LED Type: Cree LED
Driver Info: 120-277V, 50/60 Hz, PF>0.9, THD<0.20
Warranty: 5 year limited warranty

LED ENGINE

LED engine available with CREE LEDs in 2700K, 3000K, 3500K, or 4000K in standard 93+ CRI. 2 Step MacAdam ellipse allows for color consistency between fixtures. LED mounted to aluminum heat sink for maximum life output and thermal management. Light engine provides a quick disconnect with locking strain relief to housing.

FRAME CONSTRUCTION

Constructed from 16 gauge heavy duty powder coated cold rolled steel frame with a large access junction box.

ADJUSTMENT

- Housing provides for 360° locking rotation
- Aperture collar adjusts 15°± horizontally within frame for square ceiling alignment
- Collar notch allows for easy alignment for square applications.
- Aperture collar compatible up to 1½" ceiling thickness.
- Accommodation for 2" or 3" ceiling thickness available upon request.

OPTICS

Field replaceable optical lens available in 18°, 30°, 50°, and 80°. Easily achieve narrow spot to wide flood beam pattern. Option for frosted, honeycomb, or solite filter (2 maximum).

DIMMING

Available in 8 driver selections. **(ID)** Standard all-inclusive ELV, Triac, and 0-10V dimming driver called Intelligent Drive, 120-277V. **(PEQ0)** Lutron Hi-Lume Premier Ecosystem 0.1% w/soft on, fade to black dimming, 120-277V. **(LDE1)** Lutron Hi-Lume 1% Ecosystem with soft on, fade to black dimming, 120-277V. **(LTE)** Lutron Hi-Lume 1% 2-wire, 120V. **(L3DA)** Hi-lume 1% EcoSystem/3-Wire L3D Driver **(EEI)** eldoLED Eco 1% Dim (0-10V), 120-277V. **(EDIO)** eldoLED Solo 0.1% Dim(0-10V), 120-277V. **(EDID)** eldoLED Solo 0.1% Dim(DALI), 120-277V.

THERMAL MANAGEMENT

Ambient temperatures at fixture location should not exceed -20° to 40°C.

EMERGENCY BATTERY

Optional emergency battery available for a minimum of 90 minutes with both integral or remote test switch in 800 or 1700 delivered lumens.

TRIM OPTIONS

- All trims are self flanged die cast or anodized.
- Trim includes standard frosted acrylic diffuser.
- 12% lumens increase if remove standard frosted acrylic diffuser in field.
- Optical Enhancer reflects light evenly across the diffusion lens.
- Trims available in round or square in an assortment of standard or made to order finishes.

LABELS/COMPLIANCE/WARRANTY

- CSA Listed for US and Canada
- Energy Star
- Dry/Damp/Wet location rated.
- Title 24, JA8 Compliant
- 5 Year limited warranty



HOUSING ORDERING INFORMATION

RPA4						
Series	Lumens	Color Temp	Voltage	Dimming	Optical Lens ⁹	Filter
PRIME SERIES	10L ¹ - 1055 lm 12L ¹ - 1250 lm 16L ¹ - 1645 lm 21L ¹ - 2170 lm 25L ¹ - 2495 lm 31L - 3105 lm 34L - 3475 lm 40L - 4030 lm	27 - 2700K 30 - 3000K 35 - 3500K 40 - 4000K	UNV - 120-277V 120 - 120V 347 ² - 347V	ID ³ - Standard all-inclusive ELV, Triac, and 0-10V dimming driver (Intelligent Drive) PEQ0 ⁴ - Lutron Hi-Lume Premier Ecosystem 0.1% w/soft on, fade to black dimming LDE1 ⁶ - Lutron Hi-Lume 1% Ecosystem with soft on, fade to black dimming LTE ^{5,6} - Lutron Hi-Lume 1% 2-wire L3DA - Hi-lume 1% EcoSystem/3-Wire L3D Driver EEI ^{7,8} - eldoLED Eco 1% Dim (0-10V) EDIO ^{7,8} - eldoLED Solo 0.1% Dim (0-10V) EDID ^{7,8} - eldoLED Solo 0.1% Dim (DALI)	18 - 18° 30 - 30° 50 - 50° 80 - 80°	None - Leave blank F - Frosted filter H - Honeycomb S - Solite filter

RFD				
Housing Type	Aperture	Frame Accessories	Collar	Option
NC - Non-IC New Construction IC ¹⁰ - IC Air-tight New Construction	RFD - Round Flanged Downlight	C - C Channel bar hanger B - Flat bar hanger WJ ¹¹ - Wood Joist	Blank - 1.5" Depth 20 - 2" Depth 30 - 3" Depth MTO - Made to order	EI8 - Emergency battery with integral switch(800 Lumens) ER8 - Emergency battery with remote switch (800 Lumens) EI17 - Emergency battery with integral switch(1700 Lumens) ER17 - Emergency battery with remote switch (1700 Lumens) FCJS-E - Vive wireless individual controller(Ecosystem) FCJS-0 - Vive wireless individual controller(0-10) CP ¹⁰ - Chicago Plenum

TRIM ORDERING INFORMATION

4RFO		
Aperture Size / Shape / Trim Type / Style	Bevel / Flange Finish	Options
4RFO - 4" Round Flange Open	W-W - White bevel / white flange H-W - Haze bevel / white flange B-B - Black bevel / black flange H-H - Haze bevel / Haze flange S-S - Specular clear bevel / Specular clear flange S-W - Specular clear bevel / white flange WE-WE - Wheat bevel / wheat flange MTO - Made to order	WL - Wet location

1. Compatible with IC new construction housing.
2. Step down transformer required.
3. Intelligent Drive is the standard driver.
4. Driver must not exceed 1645 lm
5. 120V only.
6. Inapplicable to 4030 Lumen offering.
7. Must specify logarithmic or linear eldoLED driver.
8. Confirm dimming curve: linear or logarithmic.
9. Without standard frosted acrylic diffuser.
10. Compatible up to 2170 lumens.
11. Wood joist only available in round.

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LUMEN CHART

Wattage	Delivered Lumens	Voltage	CRI
11W	1055 Lm	120-277V	93+
16W	1250 Lm	120-277V	93+
20W	1645 Lm	120-277V	93+
30W	2170 Lm	120-277V	93+
31W	2495 Lm	120-277V	93+
38W	3105 Lm	120-277V	93+
45W	3473 Lm	120-277V	93+
58W	4030 Lm	120-277V	93+

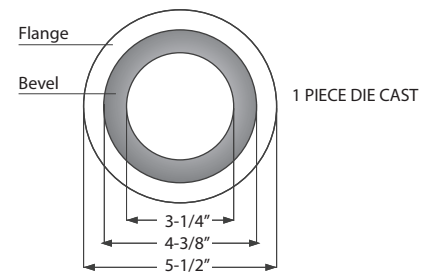
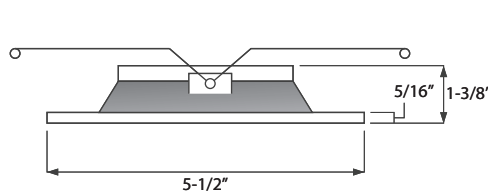
*Above chart, ordering information, and IES File name reflect delivered lumens based 3000K and 30° optical lens.
 **Lumens will vary based on CCT, optical lens, and bevel finish.

MULTIPLIERS

Color Temperature	Lumen Multiplier
2700k	0.93
3000k	1.00
3500k	1.07
4000k	1.15

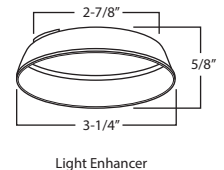
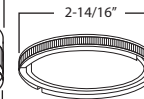
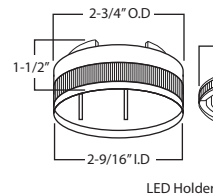
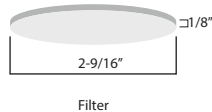
TRIM DIMENSION

Trim Details



LED HOLDER & FILTER DIMENSION

LED Holder and Filter

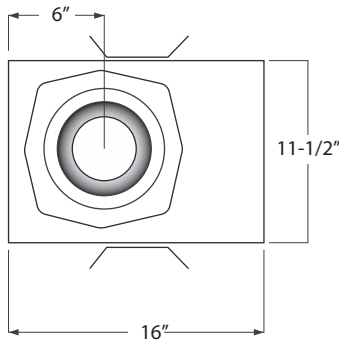
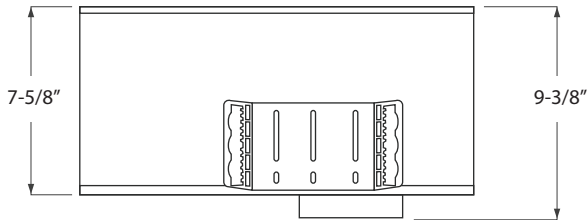
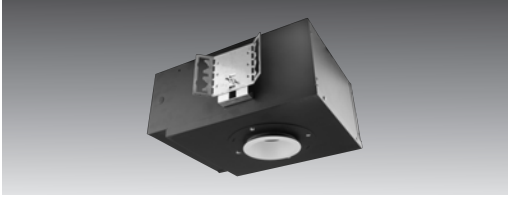


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ROUND FLANGED DOWNLIGHT

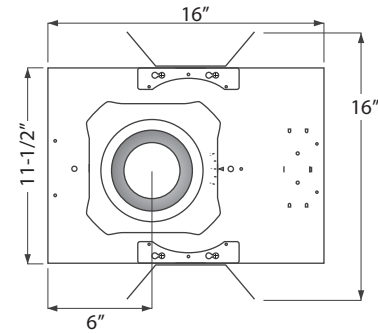
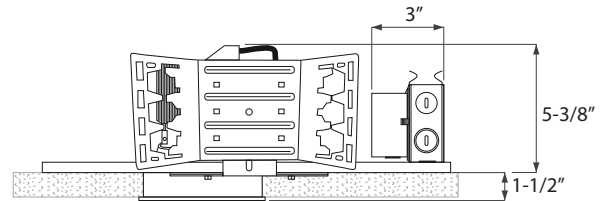
HOUSING DIMENSION

IC Housing Details

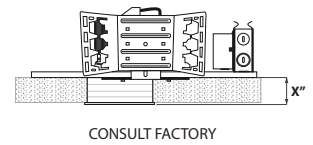
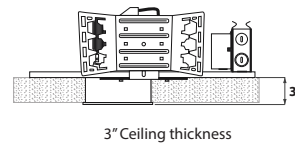
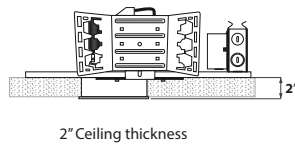
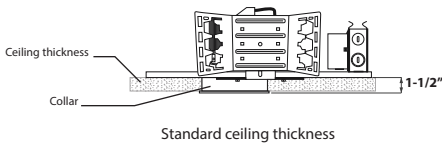


Ceiling Cut-out: 5-3/16"
Maximum Ceiling Thickness: 1-1/2"
Minimum Ceiling Thickness: 1/2"
Consult factory for custom ceiling thickness

Housing Details



COLLAR DEPTH PER CEILING THICKNESS



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4" PRIME DOWNLIGHT

FRAME ACCESSORIES

WJ

Slotted Holes
allow for an
easier installation

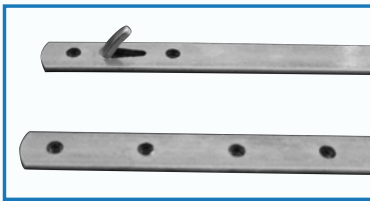
Wood Joist

4" up to 8" CKOs

Fits up to 26" stud spacings

Plate is offset, allowing for
adjustability with irregular
stud spacing

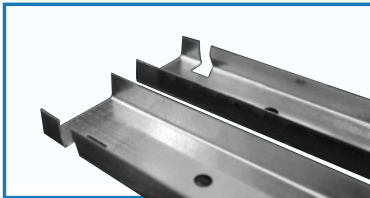
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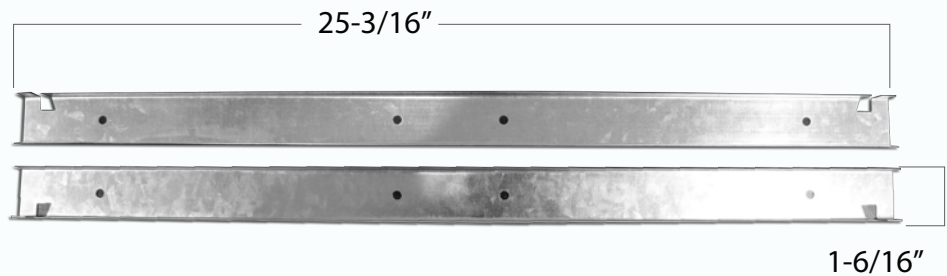
Flat Bar Hanger



C



C Channel Bar Hanger

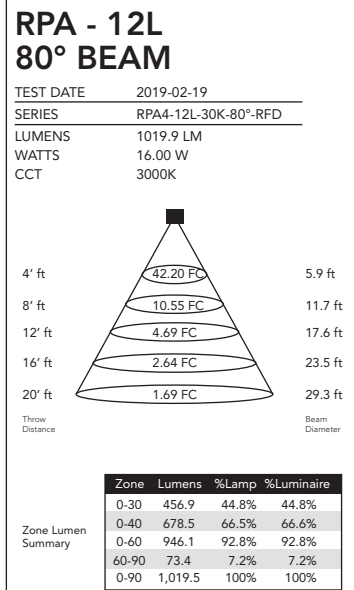
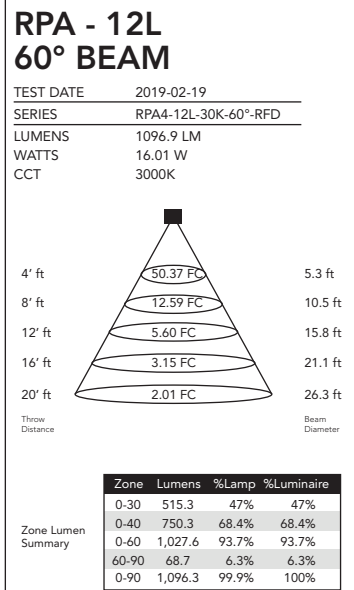
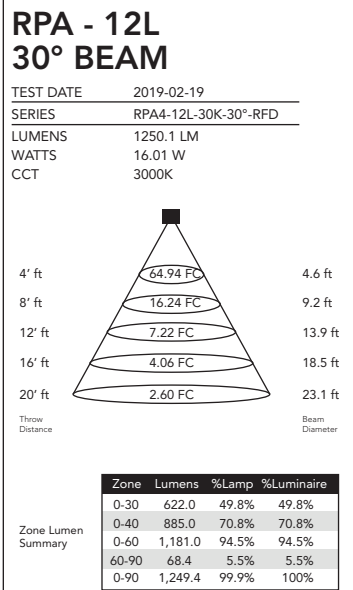
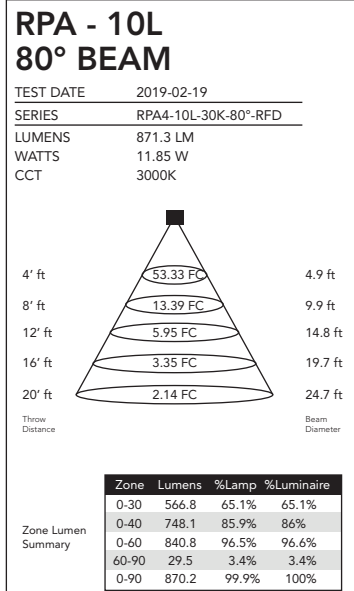
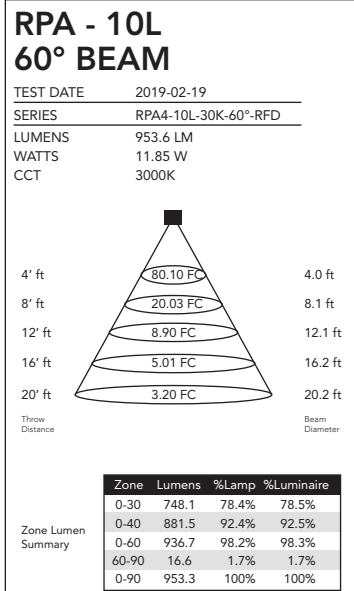
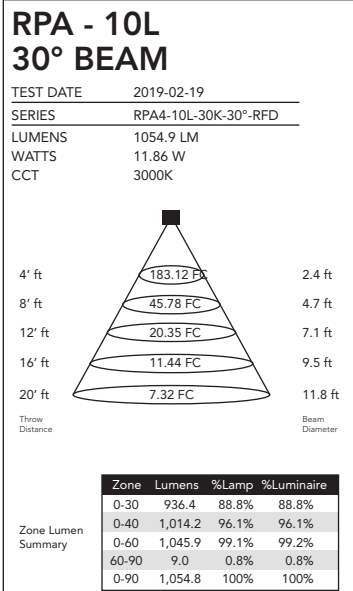
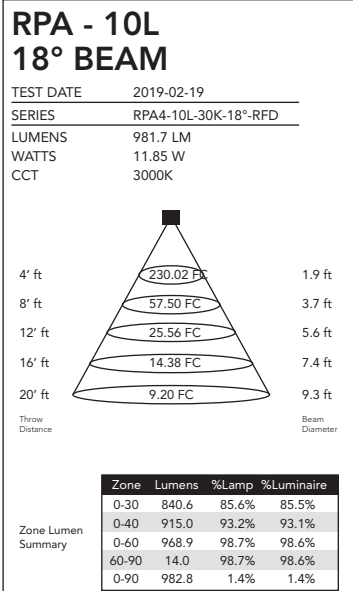


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ROUND FLANGED DOWNLIGHT

AT-A-GLANCE TECHNICAL INFORMATION

4" PRIME DOWNLIGHT



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PRIME

PRIME 4" LED ARCHITECTURAL
ROUND FLANGED DOWNLIGHT

4" PRIME DOWNLIGHT

AT-A-GLANCE TECHNICAL INFORMATION

RPA - 16L 18° BEAM

TEST DATE 2019-02-19
SERIES RPA4-16L-30K-18°-RFD
LUMENS 1533.7 LM
WATTS 20.46 W
CCT 3000K

Zone	Lumens	%Lamp	%Luminaire
0-30	1,314.2	85.7%	85.6%
0-40	1,428.4	93.1%	93.1%
0-60	1,512.5	98.6%	98.5%
60-90	22.3	1.5%	1.5%
0-90	1,534.8	100.1%	100%

RPA - 16L 30° BEAM

TEST DATE 2019-02-19
SERIES RPA4-16L-30K-30°-RFD
LUMENS 1646.1 LM
WATTS 20.47 W
CCT 3000K

Zone	Lumens	%Lamp	%Luminaire
0-30	1,459.7	88.7%	88.7%
0-40	1,581.4	96.1%	96%
0-60	1,631.6	99.1%	99.1%
60-90	15.0	0.9%	0.9%
0-90	1,646.6	100%	100%

RPA - 16L 60° BEAM

TEST DATE 2019-02-19
SERIES RPA4-16L-30K-60°-RFD
LUMENS 1500 LM
WATTS 20.47 W
CCT 3000K

Zone	Lumens	%Lamp	%Luminaire
0-30	1,180.4	78.7%	78.7%
0-40	1,388.9	92.6%	92.6%
0-60	1,474.2	98.2%	98.2%
60-90	26.4	1.8%	1.8%
0-90	1,506.6	100%	100%

RPA - 16L 80° BEAM

TEST DATE 2019-02-19
SERIES RPA4-16L-30K-80°-RFD
LUMENS 1367.4 LM
WATTS 20.51 W
CCT 3000K

Zone	Lumens	%Lamp	%Luminaire
0-30	889.1	65%	65.1%
0-40	1,173.4	85.8%	85.9%
0-60	1,319.0	96.5%	96.6%
60-90	46.9	3.4%	3.4%
0-90	1,365.9	99.9%	100%

RPA - 21L 18° BEAM

TEST DATE 2019-02-19
SERIES RPA4-21L-30K-18°-RFD
LUMENS 2027.6 LM
WATTS 29.62 W
CCT 3000K

Zone	Lumens	%Lamp	%Luminaire
0-30	1,737.3	85.7%	85.6%
0-40	1,888.2	93.1%	93.1%
0-60	1,999.4	98.6%	98.5%
60-90	29.8	1.5%	1.5%
0-90	2,029.2	100.1%	100%

RPA - 21L 30° BEAM

TEST DATE 2019-02-19
SERIES RPA4-21L-30K-30°-RFD
LUMENS 2168.1 LM
WATTS 29.60 W
CCT 3000K

Zone	Lumens	%Lamp	%Luminaire
0-30	1,921.1	88.6%	88.6%
0-40	2,082.3	96%	96%
0-60	2,148.6	99.1%	99.1%
60-90	20.1	0.9%	0.9%
0-90	2,168.7	100%	100%

RPA - 21L 60° BEAM

TEST DATE 2019-02-19
SERIES RPA4-21L-30K-60°-RFD
LUMENS 1973.6 LM
WATTS 29.59 W
CCT 3000K

Zone	Lumens	%Lamp	%Luminaire
0-30	1,553.0	78.7%	78.7%
0-40	1,825.8	92.5%	92.5%
0-60	1,938.3	98.2%	98.2%
60-90	35.0	1.8%	1.8%
0-90	1,973.3	100%	100%

RPA - 21L 80° BEAM

TEST DATE 2019-02-19
SERIES RPA4-21L-30K-80°-RFD
LUMENS 1786.8 LM
WATTS 29.57 W
CCT 3000K

Zone	Lumens	%Lamp	%Luminaire
0-30	1,162.1	65%	65.1%
0-40	1,532.6	85.8%	85.9%
0-60	1,723.0	96.4%	96.6%
60-90	61.5	3.4%	3.4%
0-90	1,784.5	99.9%	100%

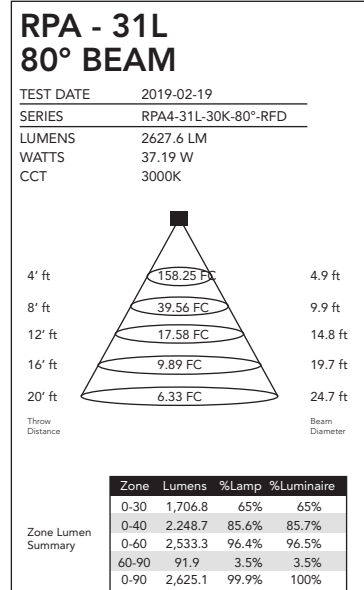
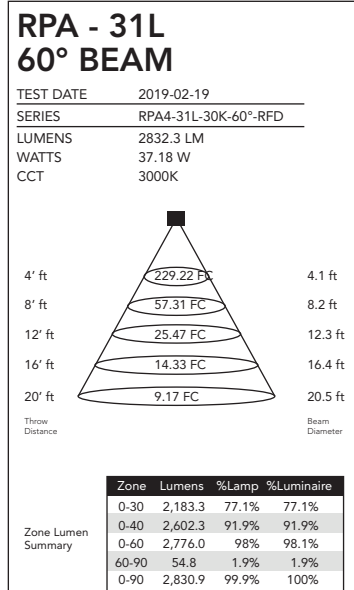
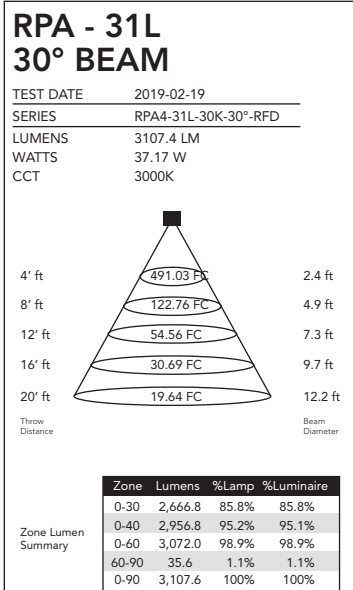
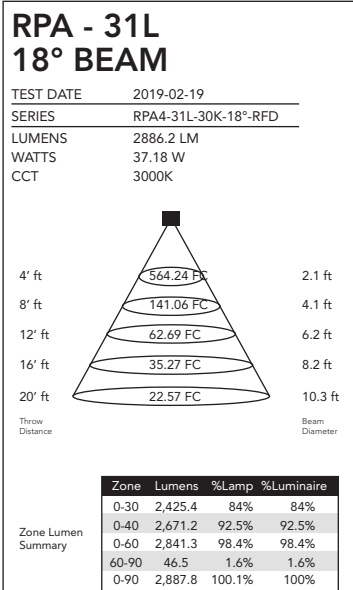
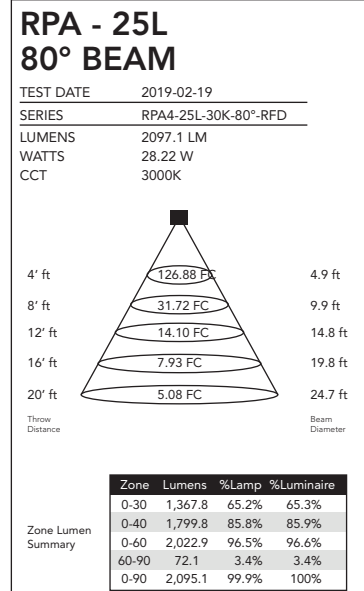
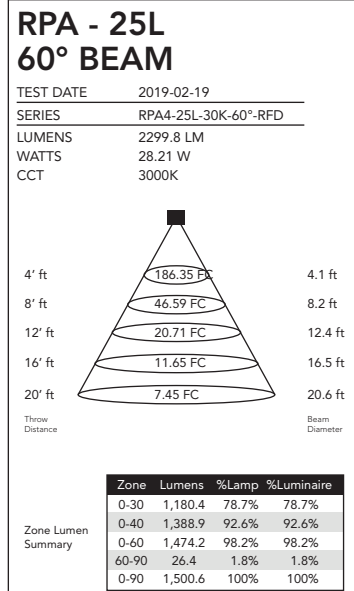
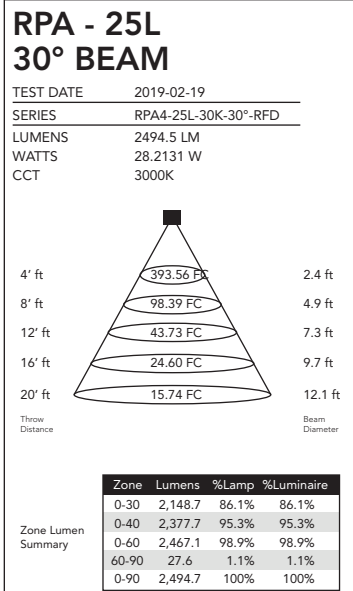
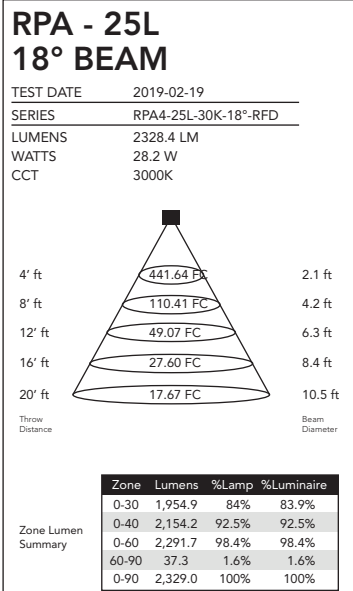
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ROUND FLANGED DOWNLIGHT

4" PRIME DOWNLIGHT

AT-A-GLANCE TECHNICAL INFORMATION



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PRIME

PRIME 4" LED ARCHITECTURAL
ROUND FLANGED DOWNLIGHT

4" PRIME DOWNLIGHT

AT-A-GLANCE TECHNICAL INFORMATION

RPA - 34L 18° BEAM

TEST DATE 2019-02-19
SERIES RPA4-34L-30K-18°-RFD
LUMENS 3230.5 LM
WATTS 43.96 W
CCT 3000K

Zone	Lumens	%Lamp	%Luminaire
0-30	1,954.9	84%	83.9%
0-40	2,154.2	92.5%	92.5%
0-60	2,291.7	98.4%	98.4%
60-90	37.3	1.6%	1.6%
0-90	2,329.0	100%	100%

RPA - 34L 30° BEAM

TEST DATE 2019-02-19
SERIES RPA4-34L-30K-30°-RFD
LUMENS 3473.2 LM
WATTS 43.97 W
CCT 3000K

Zone	Lumens	%Lamp	%Luminaire
0-30	2,978.6	85.8%	85.8%
0-40	3,303.2	95.1%	95.1%
0-60	3,433.2	98.8%	98.8%
60-90	40.3	1.2%	1.2%
0-90	3,473.5	100%	100%

RPA - 34L 60° BEAM

TEST DATE 2019-02-19
SERIES RPA4-34L-30K-60°-RFD
LUMENS 3168.1 LM
WATTS 44.00 W
CCT 3000K

Zone	Lumens	%Lamp	%Luminaire
0-30	2,435.5	76.9%	76.9%
0-40	2,908.4	91.8%	91.8%
0-60	3,105.1	98%	98.1%
60-90	61.6	1.9%	1.9%
0-90	3,166.8	100%	100%

RPA - 34L 80° BEAM

TEST DATE 2019-02-19
SERIES RPA4-34L-30K-80°-RFD
LUMENS 2930.6 LM
WATTS 43.99 W
CCT 3000K

Zone	Lumens	%Lamp	%Luminaire
0-30	1,903.8	65.0%	65.0%
0-40	2,507.4	85.6%	85.7%
0-60	2,824.9	96.4%	96.5%
60-90	102.4	3.5%	3.5%
0-90	2,927.3	99.9%	100%

RPA - 40L 18° BEAM

TEST DATE 2019-02-19
SERIES RPA4-40L-30K-18°-RFD
LUMENS 3753.4 LM
WATTS 57.78 W
CCT 3000K

Zone	Lumens	%Lamp	%Luminaire
0-30	2,980.3	79.4%	79.4%
0-40	3,406.6	90.8%	90.7%
0-60	3,678.1	98.0%	98.0%
60-90	76.0	2.0%	2.0%
0-90	3,754.1	100%	100%

RPA - 40L 30° BEAM

TEST DATE 2019-02-19
SERIES RPA4-40L-30K-30°-RFD
LUMENS 4030.2 LM
WATTS 57.58 W
CCT 3000K

Zone	Lumens	%Lamp	%Luminaire
0-30	3,229.3	80.1%	80.1%
0-40	3,741.3	92.8%	92.8%
0-60	3,959.0	98.2%	98.2%
60-90	71.1	1.8%	1.8%
0-90	4,030.2	100%	100%

RPA - 40L 60° BEAM

TEST DATE 2019-02-19
SERIES RPA4-40L-30K-60°-RFD
LUMENS 3695.2 LM
WATTS 57.62 W
CCT 3000K

Zone	Lumens	%Lamp	%Luminaire
0-30	2,704.9	73.2%	73.2%
0-40	3,330.5	90.1%	90.2%
0-60	3,606.6	97.6%	97.6%
60-90	87.0	2.4%	2.4%
0-90	3,693.6	100%	100%

RPA - 40L 80° BEAM

TEST DATE 2019-02-19
SERIES RPA4-40L-30K-80°-RFD
LUMENS 3488.5 LM
WATTS 57.73 W
CCT 3000K

Zone	Lumens	%Lamp	%Luminaire
0-30	2,268.8	65%	65.1%
0-40	2,979.9	85.4%	85.5%
0-60	3,364.8	96.5%	96.5%
60-90	122.2	3.5%	3.5%
0-90	3,487.0	100%	100%

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