

# DRD2X

## Apex Series Recessed LED Downlight

Retrofit

4", 5", 6" Aperture




Project:	Type:
Product Code:	Date:

Spec Sheet V-08.15.19



4" trim shown

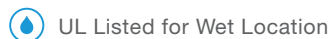
- High-end, architectural-grade illumination with up to 4000 candelas of focused light
- Precise, controlled optics put light exactly where you want it with 20°, 30° and 40° beam angles
- Integrated driver and modular trim design for compatibility with nearly any existing 4", 5" or 6" recessed housing

<b>Application</b> Retrofit		<b>Aperture</b> 4", 5", 6"	
<b>Delivered Lumens</b> 600 lm (10.0W), 750 lm (12.5W)		<b>Color Quality</b> 90+ CRI, 2-step SDCM	
<b>Color Temperature</b>  2700K   3000K   3500K   4000K		<b>Optics</b>  Spot (20°)   Narrow Flood (30°)   Flood (40°)	
<b>Surround</b> White, Black	<b>Center Beam Candlepower</b> 4000cd (Spot 750 lm)	<b>Input Voltage</b> 120/277V	
<b>Dimming</b> TRIAC/ELV 5%		<b>Warm Dim Option</b>  3000K – 1800K, 600 lm (12.0W), 93+ CRI, 3000cd	
<b>Trims</b> Smooth, Baffle, Wall Wash, Deep Smooth, Deep Baffle		<b>Trim Finish</b> White, Black, Silver, Alzak®, Custom	

**Standards**



**Ratings**



**Guarantee**

50,000 hrs | 5 years

**PRODUCT BUILDER****MODULE**

PRODUCT CODE		LUMENS		CRI		CCT		OPTICS		SURROUND	
<b>DRD2X</b>	Module	<b>06</b>	600 lm	<b>9</b>	90+ CRI	<b>27</b>	2700K	<b>SP</b>	Spot	<b>WH</b>	White
		<b>07</b>	750 lm			<b>30</b>	3000K	<b>NF</b>	Narrow Flood	<b>BK</b>	Black
						<b>35</b>	3500K	<b>FL</b>	Flood		
						<b>40</b>	4000K				

**Warm Dim Option**

<b>DRD2X</b>	Module	<b>06</b>	600 lm	<b>9</b>	93+ CRI	<b>3W</b>	3000K - 1800K	<b>SP</b>	Spot	<b>WH</b>	White
								<b>NF</b>	Narrow Flood	<b>BK</b>	Black
								<b>FL</b>	Flood		

**TRIM**

PRODUCT CODE		SHAPE		APERTURE		STYLE		FINISH		OPTION	
<b>DRD2T</b>	Trim	<b>R</b>	Round	<b>4</b>	4" Aperture	<b>S</b>	Smooth	<b>WH</b>	White	<b>[Blank]</b>	None
		<b>D</b>	Deep <sup>1</sup>	<b>5</b>	5" Aperture	<b>B</b>	Baffle	<b>BK</b>	Black	<b>DF</b>	Dead Front <sup>2,4</sup>
				<b>6</b>	6" Aperture	<b>W</b>	Wall Wash <sup>2</sup>	<b>SW</b>	Silver Reflector, White Flange		
								<b>AZ</b>	Low Iridescent Reflector, White Flange <sup>3</sup>		
								<b>CC</b>	Custom Color		

**ADAPTER**

PRODUCT CODE	
<b>DRD2X-QCM-ED</b>	Edison Adapter
<b>DRD2X-QCM-GU</b>	GU-24 Adapter
<b>DRD2X-QCM-M</b>	PowerPlug® Luminaire Disconnect Male Adapter

<sup>1</sup> Only available in 6" aperture, Smooth or Baffle style, White, Low Iridescent or Custom finish<sup>2</sup> Only available in White finish<sup>3</sup> Only available for Deep shape<sup>4</sup> Only available for Round shape, 4" aperture, Smooth style

**MODULE**


## DRD2X

Apex Series LED Module

**DRD2X**
**SUMMARY**
**LED:** Cree® LED

**DELIVERED LUMENS (w Trim):** 600 lm (10.0W), 750 lm (12.5W)

**EFFICACY:** 60 lm/W

**COLOR QUALITY:** 90+ CRI, 2-step SDCM

**CCT:** 2700K, 3000K, 3500K, 4000K

**OPTICS:** Spot (20°), Narrow Flood (30°), Flood (40°)

**SURROUND:** White, Black

**CENTER BEAM CANDLEPOWER:** 4000cd (Spot 750 lm)

**CONNECTOR:** PowerPlug® Luminaire Disconnect Model 182

**DIMMING:** Down to less than 5% for TRIAC/ELV at 120V

**INPUT VOLTAGE:** 120/277V, 50/60Hz

**MAX INPUT CURRENT (120V):** 0.090 amps, 0.107 amps

**MAX INPUT CURRENT (277V):** 0.042 amps, 0.050 amps

**POWER FACTOR:** Greater than 0.9

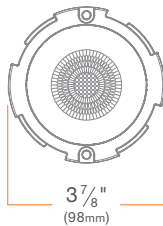
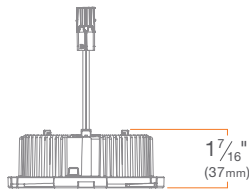
**TOTAL HARMONIC DISTORTION:** Less than 20%

**AMBIENT OPERATING TEMPERATURE:** -20°C to 40°C

**PHOTOMETRIC TESTING:** Tested in accordance to IESNA LM-79-2008

**LISTINGS:** ENERGY STAR® qualified, California Title 24 2016 JA8 Compliant, UL Listed for Wet Location, cULus Listed

**LIFETIME:** 50,000 hours at 70% lumen maintenance

**WARRANTY:** 5 year limited warranty

**● WARM DIM OPTION**
**LED:** Bridgelux LED, **DELIVERED LUMENS (w Trim):** 600 lm (12.0W),

**EFFICACY:** 50 lm/W, **COLOR QUALITY:** 93+ CRI, **CCT RANGE:** 3000K

 - 1800K, **CENTER BEAM CANDLEPOWER:** 3000cd (Spot), **MAX INPUT**
**CURRENT (120V):** 0.11 amps, **MAX INPUT CURRENT (277V):** 0.047 amps

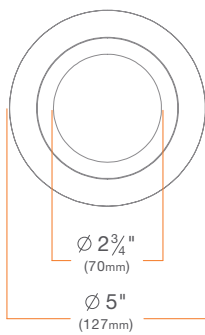
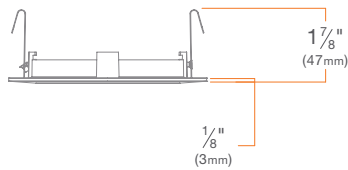
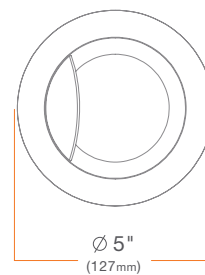
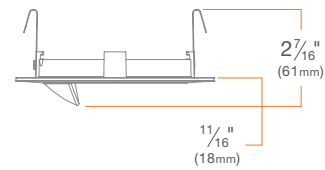
## TRIM

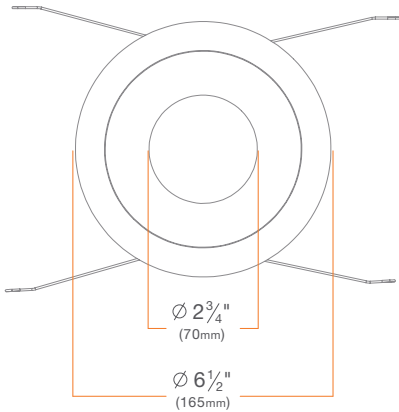
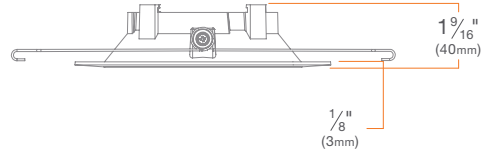
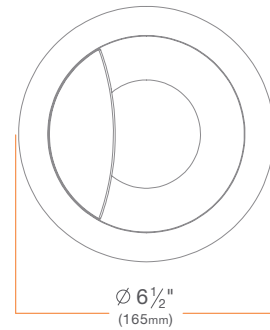
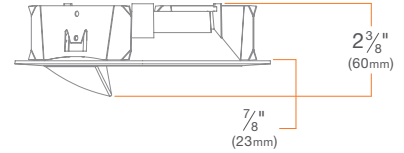
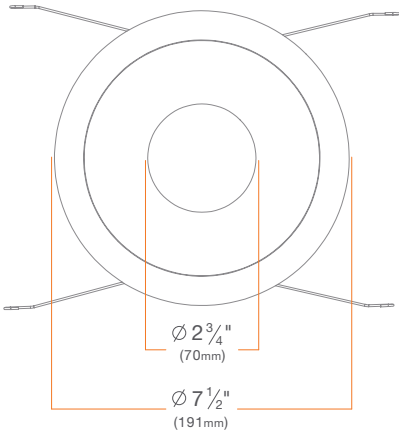
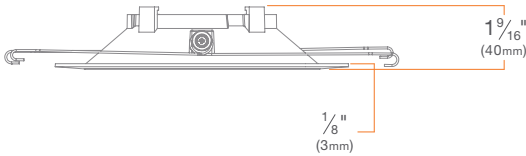
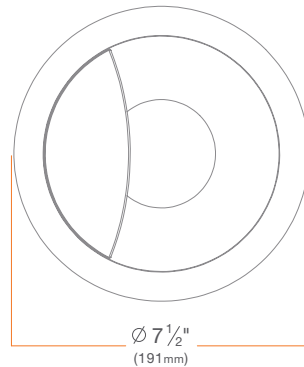
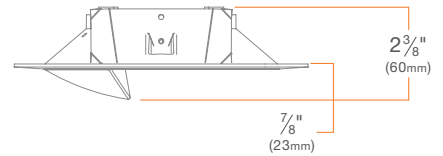
**Classic Trims**

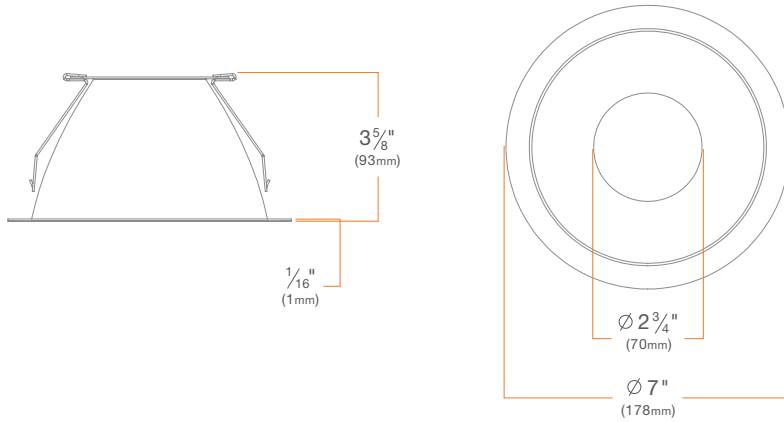
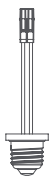
4", 5", 6" Aperture

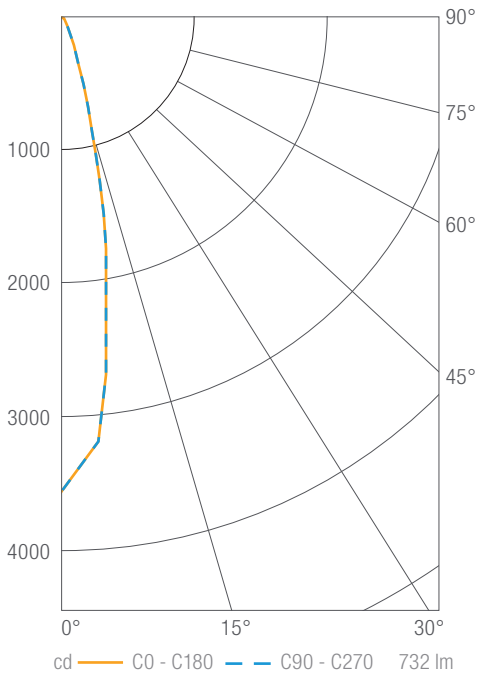
**DRD2T**

## SUMMARY

**CONSTRUCTION:** Die-cast aluminum**INSTALLATION:** Twist & Lock**4" Round Trim****DRD2TR4SWH****4" Wall Wash Trim****DRD2TR4WWH**

**TRIM**
**5" Round Trim**
**DRD2TR5SWH**

**5" Wall Wash Trim**
**DRD2TR5WWH**

**6" Round Trim**
**DRD2TR6SWH**

**6" Wall Wash Trim**
**DRD2TR6WWH**


**TRIM****6" Deep Trim****DRD2TD6SWH****ADAPTERS****Edison Adapter****DRD2X-QCM-ED****GU-24 Adapter****DRD2X-QCM-GU****PowerPlug Luminaire Disconnect Male Adapter****DRD2X-QCM-M**

**PHOTOMETRY**
**DRD2X 750 lm, 3000K, Spot, White DRD2X07930SPWH / 6" Round Trim White DRD2TR6SWH**

**Luminous Intensity**

Gamma	C 0°
0°	3569
5°	3203
10°	1981
15°	908
20°	397
25°	195
30°	111
35°	75
40°	53
45°	36
50°	26
55°	20
60°	14
65°	8
70°	4
75°	1
80°	0
85°	1
90°	0

Values in candela

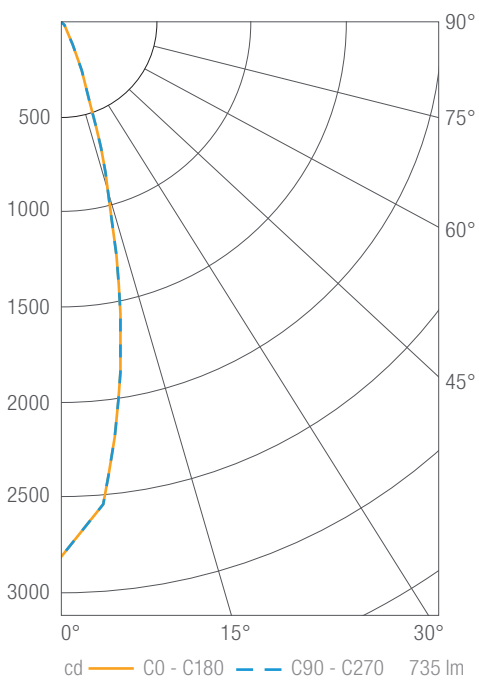
**Zonal Lumen Summary**

Zone	Lumens	Luminaire %
0-30	630	86
0-40	677	93
0-60	722	99
0-90	732	100
0-180	732	100

**Illuminance Chart**

Distance from LED	Foot Candles	Diameter
3'	397	1.1'
6'	99	2.2'
9'	44	3.3'
12'	25	4.4'

Beam Angle: 20°

**DRD2X 750 lm, 3000K, Narrow Flood, White DRD2X07930NFWH / 6" Round Trim White DRD2TR6SWH**

**Luminous Intensity**

Gamma	C 0°
0°	2814
5°	2546
10°	1818
15°	1002
20°	451
25°	202
30°	102
35°	59
40°	39
45°	28
50°	20
55°	15
60°	10
65°	7
70°	5
75°	3
80°	0
85°	0
90°	0

Values in candela

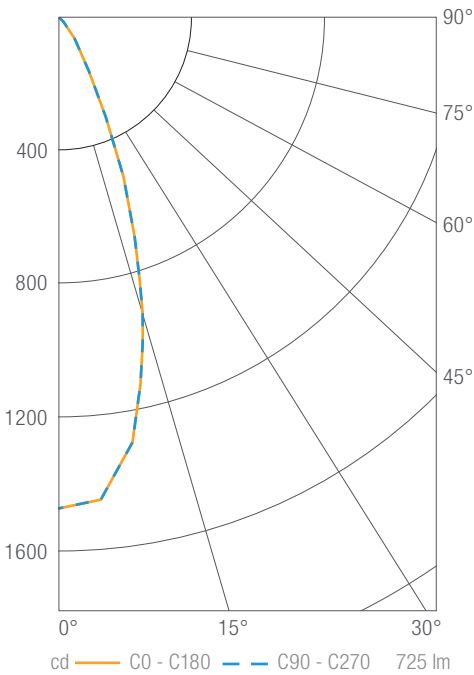
**Zonal Lumen Summary**

Zone	Lumens	Luminaire %
0-30	649	87
0-40	693	93
0-60	731	98
0-90	743	100
0-180	743	100

**Illuminance Chart**

Distance from LED	Foot Candles	Diameter
3'	313	1.5'
6'	78	2.9'
9'	35	4.4'
12'	20	5.8'

Beam Angle: 28°

**PHOTOMETRY**
**DRD2X 750 lm, 3000K, Flood, White DRD2X07930FLWH / 6" Round Trim White DRD2TR6SWH**

**Luminous Intensity**

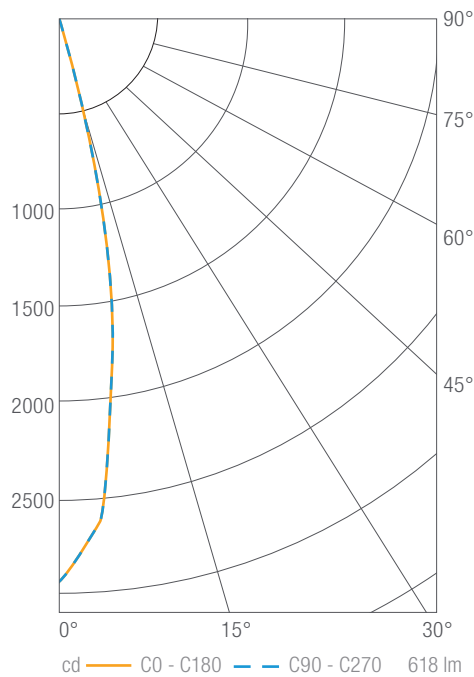
Gamma	C 0°
0°	1474
5°	1454
10°	1295
15°	989
20°	632
25°	346
30°	180
35°	95
40°	55
45°	38
50°	28
55°	20
60°	15
65°	11
70°	6
75°	3
80°	2
85°	0
90°	0

*Values in candela*
**Zonal Lumen Summary**

Zone	Lumens	Luminaire %
0-30	584	81
0-40	655	90
0-60	708	98
0-90	725	100
0-180	725	100

**Illuminance Chart**

Distance from LED	Foot Candles	Diameter
3'	164	2.1'
6'	41	4.1'
9'	18	6.2'
12'	10	8.3'

*Beam Angle: 38°*
**DRD2X Warm Dim 600 lm, 3000K, Spot, White DRD2X0693WSPWH / 6" Round Trim White DRD2TR6SWH**

**Luminous Intensity**

Gamma	C 0°
0°	2932
5°	2631
10°	1627
15°	746
20°	326
25°	160
30°	91
35°	62
40°	43
45°	30
50°	21
55°	16
60°	11
65°	7
70°	3
75°	1
80°	0
85°	1
90°	0

*Values in candela*
**Zonal Lumen Summary**

Zone	Lumens	Luminaire %
0-30	531	86
0-40	571	92
0-60	609	99
0-90	618	100
0-180	618	100

**Illuminance Chart**

Distance from LED	Foot Candles	Diameter
3'	326	1.2'
6'	81	2.3'
9'	36	3.5'
12'	20	4.6'

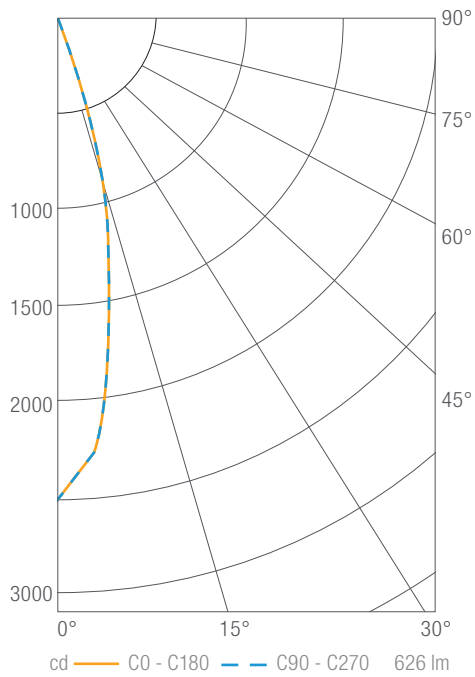
*Beam Angle: 20°*





PHOTOMETRY

DRD2X Warm Dim 600 lm, 3000K, N Flood, White DRD2X0693WNFWH / 6" Round Trim White DRD2TR6SWH



Luminous Intensity

Gamma	C 0°
0°	2516
5°	2276
10°	1626
15°	896
20°	403
25°	180
30°	91
35°	53
40°	35
45°	25
50°	18
55°	14
60°	9
65°	7
70°	4
75°	3
80°	0
85°	0
90°	0

Values in candela

Zonal Lumen Summary

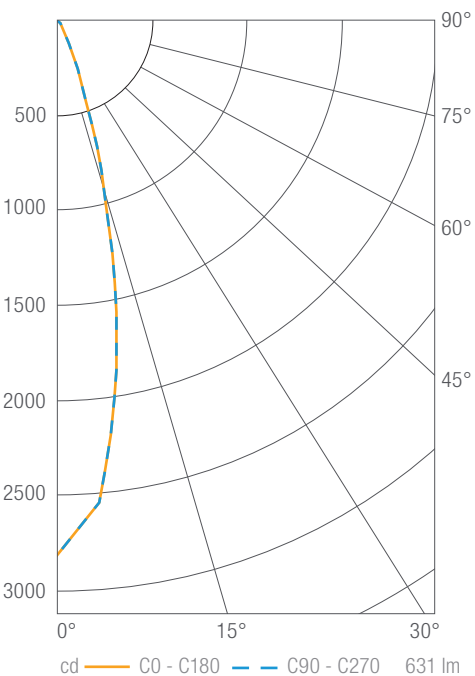
Zone	Lumens	Luminaire %
0-30	549	88
0-40	585	93
0-60	617	99
0-90	626	100
0-180	626	100

Illuminance Chart

Distance from LED	Foot Candles	Diameter
3'	280	1.3'
6'	70	2.7'
9'	31	4.0'
12'	17	5.3'

Beam Angle: 26°

DRD2X Warm Dim 600 lm, 3000K, Flood, White DRD2X0693WFLWH / 6" Round Trim White DRD2TR6SWH



Luminous Intensity

Gamma	C 0°
0°	1326
5°	1308
10°	1165
15°	889
20°	569
25°	311
30°	162
35°	85
40°	50
45°	34
50°	25
55°	18
60°	13
65°	10
70°	6
75°	3
80°	2
85°	0
90°	0

Values in candela

Zonal Lumen Summary

Zone	Lumens	Luminaire %
0-30	514	82
0-40	573	91
0-60	617	98
0-90	631	100
0-180	631	100

Illuminance Chart

Distance from LED	Foot Candles	Diameter
3'	147	2.0'
6'	37	4.0'
9'	16	6.0'
12'	9	8.0'

Beam Angle: 38°

Lumen Scaling

DRD2X06 (600 lm)	DRD2X07 (750 lm)
0.80	1.00

CCT Scaling

DRD2X07927 (2700K)	DRD2X07930 (3000K)	DRD2X07935 (3500K)	DRD2X07940 (4000K)
0.93	1.00	1.00	1.07

**DIMMER COMPATIBILITY**
**Recommended Phase-control Dimmers** (Dims down to 5% nominal measured light output)

Brand	Series	Model Number	Max Load DRD2X06	Max Load DRD2X07
<b>Control 4</b>	Control 4	C4-APD120	10	9
<b>Cooper</b>	Decorator	DLC03P, DAL06P	25	20
<b>Legrand</b>	Adorne	ADTP703TU	35	30
<b>Lutron</b>	Caseta	PD-6WCL	12	10
	CL Series	AYCL-153, CTCL-153, DVCL-153, LGCL-513, SCL-153, TGCL-513	12	10
	CL Series	AYCL-253, DVCL-253	20	15
	Grafik Eye 3000	QSGR-3P	30	25
	Grafik Sys / Homeworks	RPM-4A	25	20
	Grafik Sys / Homeworks	RPM-4U	30	25
	Maestro CL	MACL-153M, MSCL-OP153M, MSCL-VP153M	12	10
	Maestro Wireless	MRF2-6ELV, MRF2-6CL	12	10
	Radio RA	RRD-6NA, RRD-6CL, RRD-6D	12	10

**Compatible Phase-control Dimmers<sup>1</sup>** (Dims down to 20% nominal measured light output)

Brand	Series	Model Number	Max Load DRD2X06	Max Load DRD2X07
<b>Cooper</b>	Slide	SLC03P, SAL06P	25	20
<b>Legrand</b>	Harmony	H703PTU, HCL453P	30	25
<b>Leviton</b>	IllumaTech Slide	IPE04	25	20
	SureSlide	6621, 6674	10	10
<b>Lutron</b>	Diva	DV-600	12	10
	Maestro	MA-600	12	9
	Maestro ELV	MAELV-600, MSCELV-600	35	30
	Maestro Wireless	MRF2-6ND	12	10
	Power Booster	PHPM-PA, PHPM-WBX	25	20
<b>Philips</b>	Sunrise	SR400RPC120, ZP260QEW	20	15
<b>Watt Stopper</b>	Digital Light Management	LMRC-221	160	150
	Dimming Sensor	PW-100D	14	12

<sup>1</sup> Dimmer compatibility reflects performance compatibility only. Please reference your local codes for application.



DIMMER COMPATIBILITY

Recommended Phase-control Dimmers - Warm Dim (Dims down to 5% nominal measured light output)

Brand	Series	Model Number	Max Load
Cooper	Decorator	DAL06P, DLC03P	20
	Slide	SLC03P	20
Leviton	Sure Slide	6621, 6631	10
Lutron	Diva CL	DVCL-153P	10
	Diva CL	DVCL-253P	15
	Grafik	GTJ-150-WH	10
	Maestro	MRF2-6ND	10
	Maestro CL	MACL-153	10
	Maestro CL	MA-PRO-WH	15
	Maestro CL	MACL-153M, MSCL-OP153M, MSCL-VP153M	10
	Radio RA	RRD-6NA, RRD-6ND	10
Skylark	SELV-300P	20	