

Professional-grade LED downlights

High end. Superior performance. Affordable price.



ENERGY STAR Luminaires V2.0

RAB[®]
LIGHTING
RABWEB.COM • 888 722-1000

LED NEW CONSTRUCTION



- Universal driver is compatible with TRIAC, ELV and 0-10V dimmers*
- ENERGY STAR V2.0 certified
- 12W replaces 75W R30, 20W & 26W replace 100W PAR
- Up to 2701 lumens and 103 lm/W
- 90+ CRI available; meets California Quality Spec
- Available in 2700, 3000, 3500 and 4000K



Absolute White™
3-step consistency and black body accurate. Less than 200K shift warranted.

Great design. Leading performance. All at a reasonable price.



Low glare.

The microprismatic diffusion lens optimizes lumen output and delivers smooth, uniform illumination.



Easy dimming.

The NDLED dims down to an industry-leading 5% with one single driver that's compatible with ELV, TRIAC, and 0-10V dimmers.*



Low profile.

Low-profile design requires just 3 3/4" (for 4") and 4 15/16" (for 6") of clearance above ceiling



90+ CRI.

High color rendering option available, which ensures that a room's colors are accurate in appearance.



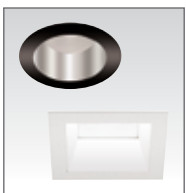
Easy installs.

Butterfly brackets allow a variety of ways to secure, including 1/4" to 1/2" bar stock, nailer bars, conduit, or C-Channels.



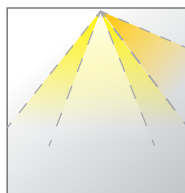
IC rating.

Comes with an optional IC housing to allow for direct contact with ceiling insulation.



Options.

4" and 6" models are offered with either round or square trim.



Optics.

All downlights are available with 50° or 80° beam spreads, or as a wall washer.



In color.

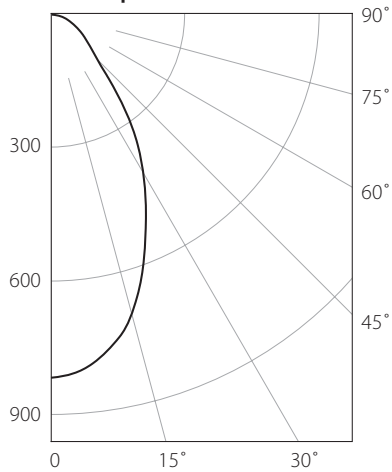
Available in 3 trim colors (white, black, silver) and 4 cone colors (white, black, matte silver, specular)

*See dimmer compatibility list.

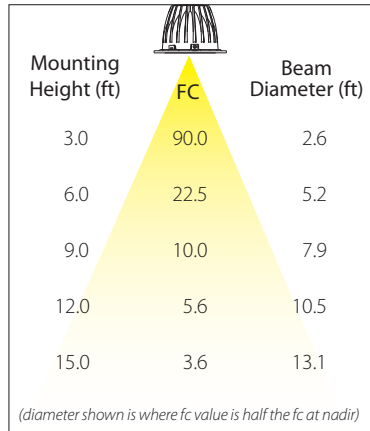
ND4R12D + NDLED4RD-50YHC-W-X: 4" Round - 12W - 50° Optics - 3000K - 90 CRI - White cone

(Photometric report #RAB01355)

candlepower distribution



cone of light



candela distribution

vertical deg.	candelas
0	810
5	795
15	692
25	498
35	324
45	146
55	90
65	52
75	25
85	6
90	0

zonal lumen summary

zone	lumens	% fix.
0- 30	497	50.6
0- 40	696	71.0
0- 60	895	91.3
0- 90	981	100.0
90-180	0	0.0
0-180	981	100.0

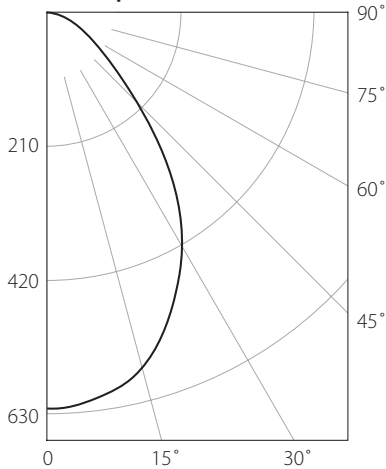
Lumens per Watt: 69

Spacing Criteria 0.9

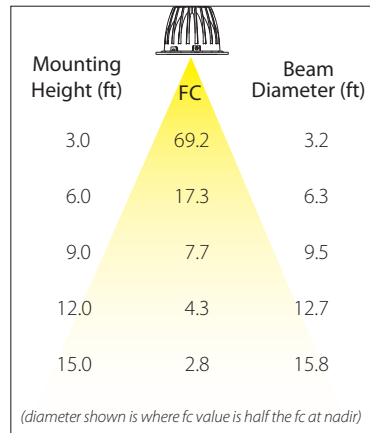
ND4R12D + NDLED4RD-80YHC-W-X: 4" Round - 12W - 80° Optics - 3000K - 90 CRI - White cone

(Photometric report #RAB01186MOD309012)

candlepower distribution



cone of light



candela distribution

vertical deg.	candelas
0	622
5	617
15	576
25	481
35	359
45	199
55	103
65	55
75	26
85	7
90	0

zonal lumen summary

zone	lumens	% fix.
0- 30	441	43.9
0- 40	663	66.0
0- 60	913	90.9
0- 90	1004	100.0
90-180	0	0.0
0-180	1004	100.0

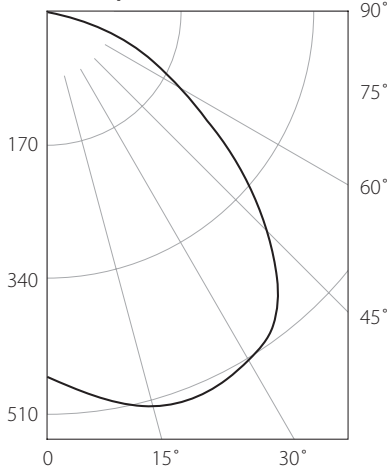
Lumens per Watt: 71

Spacing Criteria 1.1

ND4R12D + NDLED4RD-WYHC-W-X: 4" Round - 12W - Wall Washer - 3000K - 90 CRI - White cone

(Photometric report #RAB01201MOD309012)

candlepower distribution



multiple units (footcandles on the walls)

2' from wall / 3' on center

Distance from ceiling (ft.)	1	20	17	21
1	20	17	21	
2	18	18	19	
3	14	14	14	
4	10	10	10	
5	8	8	8	
6	6	6	6	
7	5	5	5	
8	4	4	4	
9	3	3	3	

3' from wall / 3' on center

Distance from ceiling (ft.)	1	10	10	10
1	10	10	10	
2	13	13	13	
3	13	13	13	
4	11	11	11	
5	9	9	9	
6	8	8	8	
7	6	6	6	
8	5	5	5	
9	4	4	4	

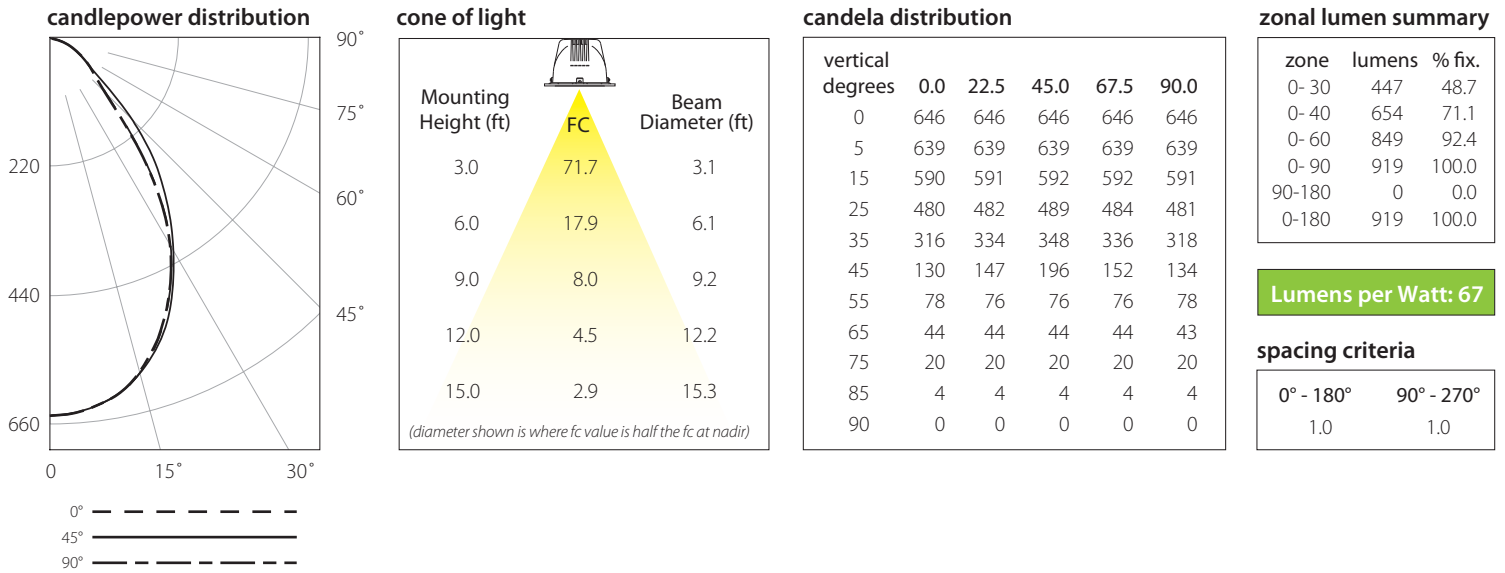
3' from wall / 4' on center

Distance from ceiling (ft.)	1	5	7	5
1	5	7	5	
2	9	10	9	
3	10	10	10	
4	9	9	9	
5	7	7	7	
6	6	6	6	
7	5	5	5	
8	4	4	4	
9	3	3	3	

Lumens per Watt: 66

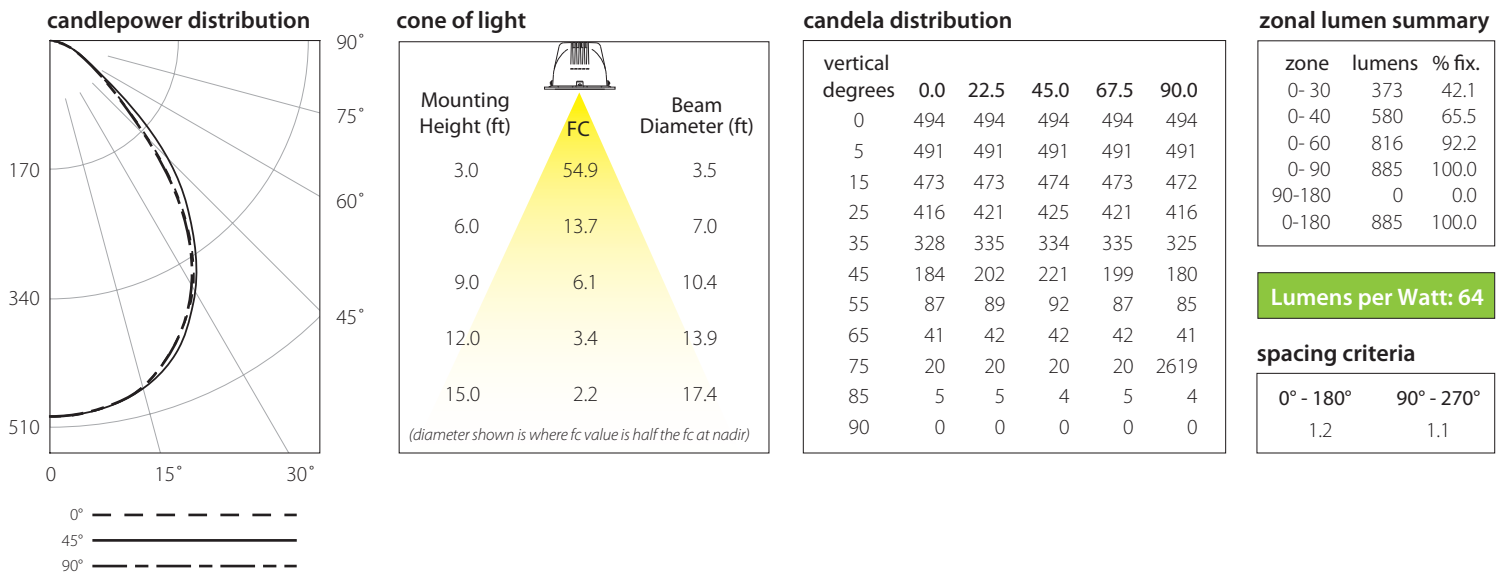
ND4S12D + NDLED4SD-50YHC-W-X: 4" Square - 12W - 50° Optics - 3000K - 90 CRI - White cone

(Photometric report #RAB01611MOD309012)



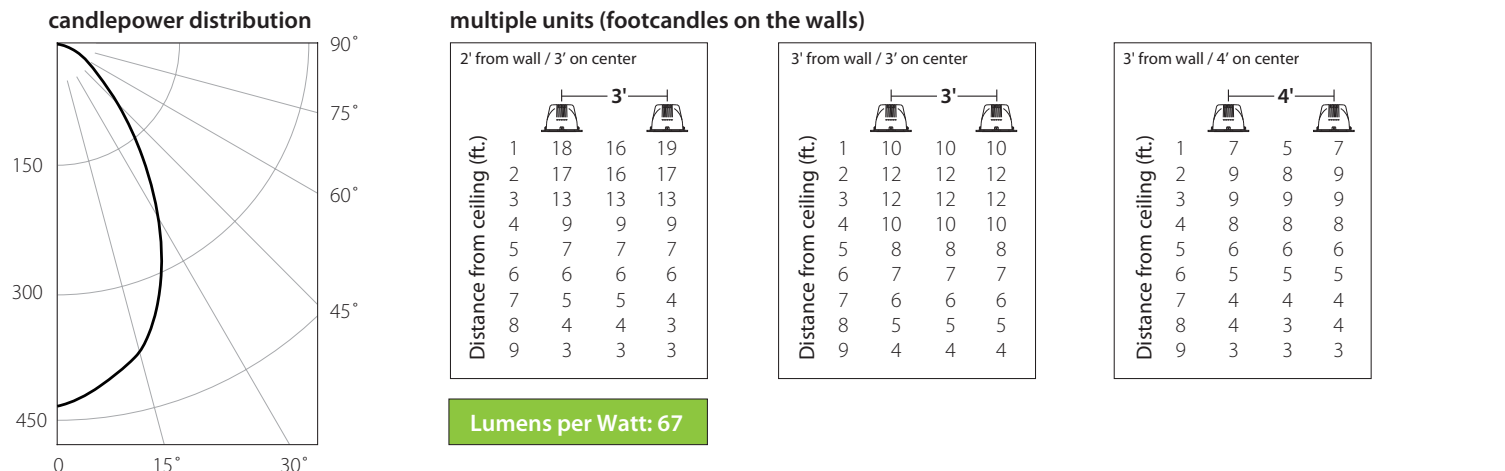
ND4S12D + NDLED4SD-80YHC-W-X: 4" Square - 12W - 80° Optics - 3000K - 90 CRI - White cone

(Photometric report #RAB01603MOD309012)



ND4S12D + NDLED4SD-WYHC-W-X: 4" Square - 12W - Wall Washer - 3000K - 90 CRI - White cone

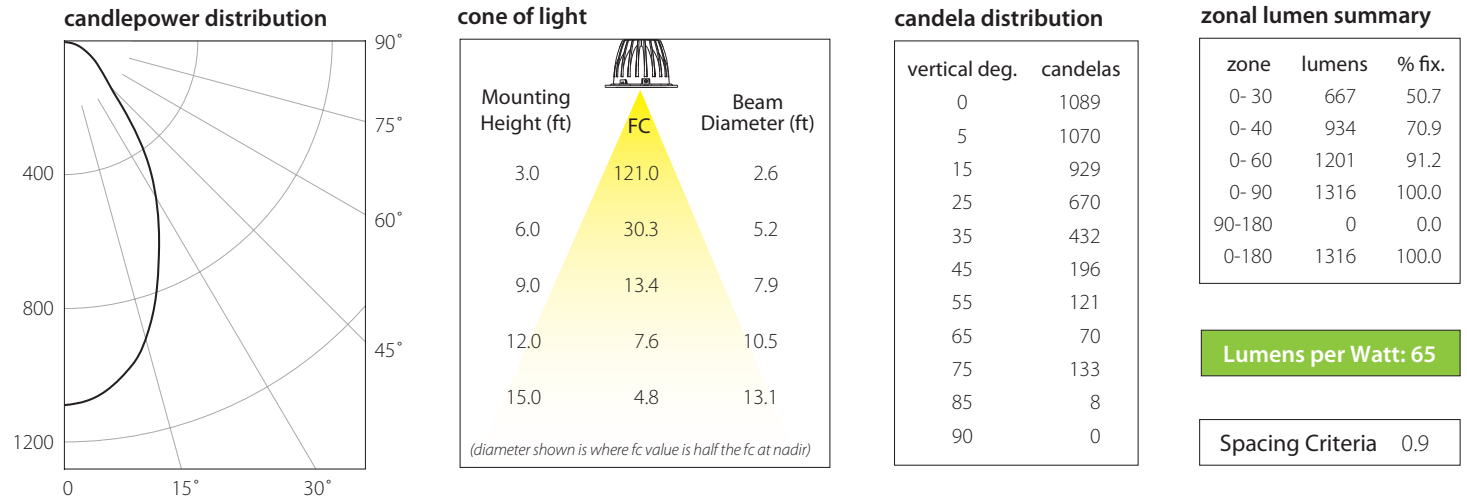
(Photometric report #RAB01595MOD309012)



Photometrics

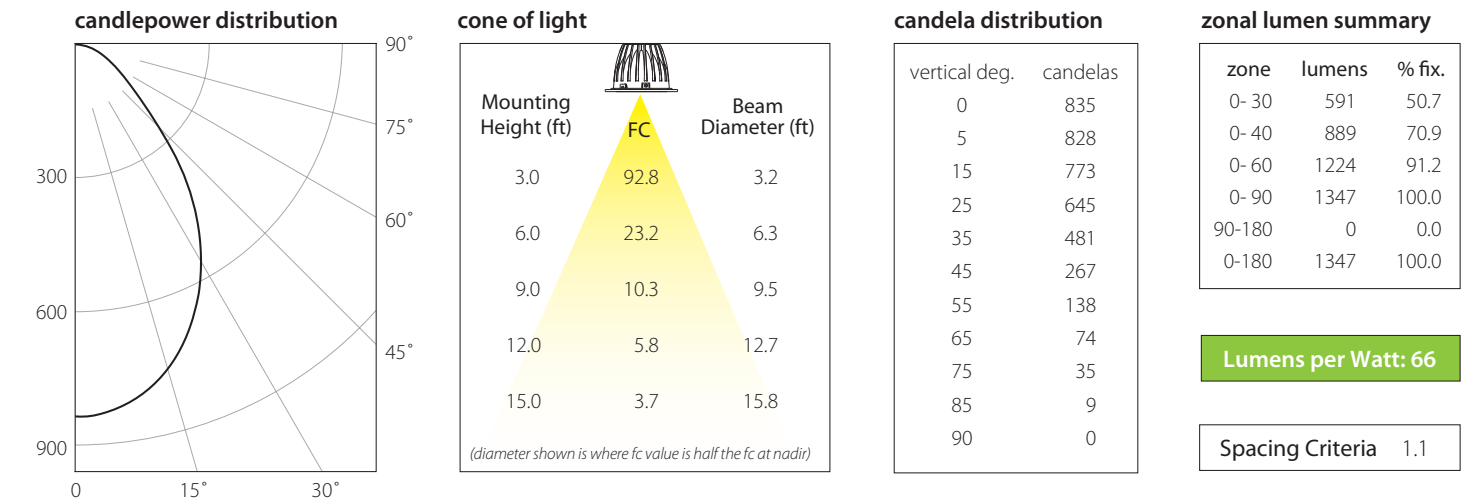
ND4R20D + NDLED4RD-50YHC-W-X: 4" Round - 20W - 50° Optics - 3000K - 90 CRI - White cone

(Photometric report #RAB0122)



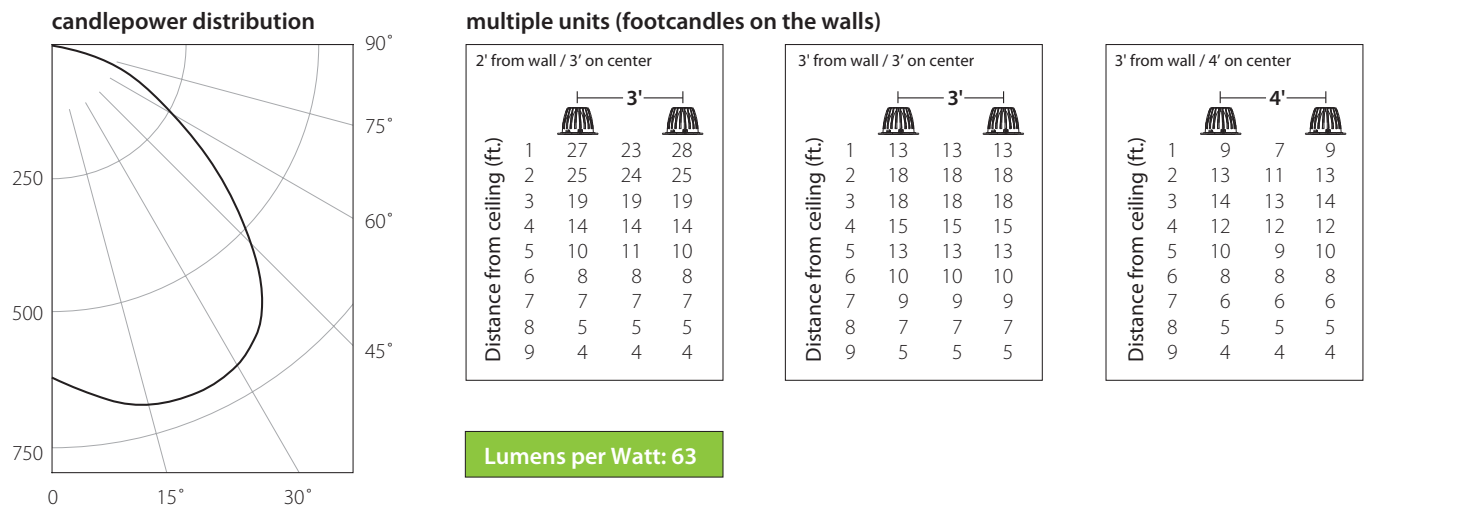
ND4R20D + NDLED4RD-80YHC-W-X: 4" Round - 20W - 80° Optics - 3000K - 90 CRI - White cone

(Photometric report #RAB01185)



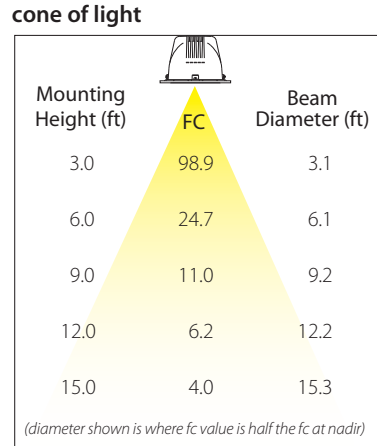
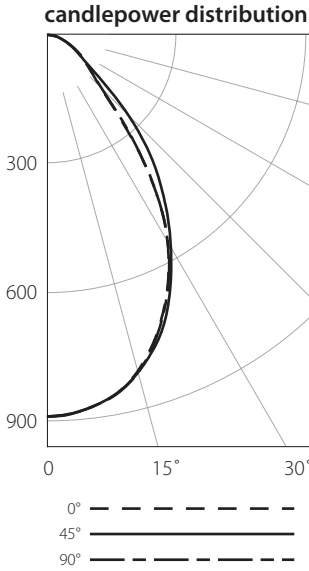
ND4R20D + NDLED4RD-WYHC-W-X: 4" Round - 20W - Wall Washer - 3000K - 90 CRI - White cone

(Photometric report #RAB01200)



ND4S20D + NDLED4SD-50YHC-W-X: 4" Square - 20W - 50° Optics - 3000K - 90 CRI - White cone

(Photometric report #RAB01611)



candela distribution

vertical degrees	0.0	22.5	45.0	67.5	90.0
0	890	890	890	890	890
5	881	881	881	881	881
15	813	814	816	816	815
25	661	664	674	667	663
35	435	460	479	463	439
45	179	203	270	210	185
55	108	105	105	105	107
65	60	60	60	60	59
75	28	28	27	27	27
85	6	6	6	6	6
90	0	0	0	0	0

zonal lumen summary

zone	lumens	% fix.
0- 30	617	48.7
0- 40	901	71.1
0- 60	1170	92.4
0- 90	1267	100.0
90-180	0	0.0
0-180	1267	100.0

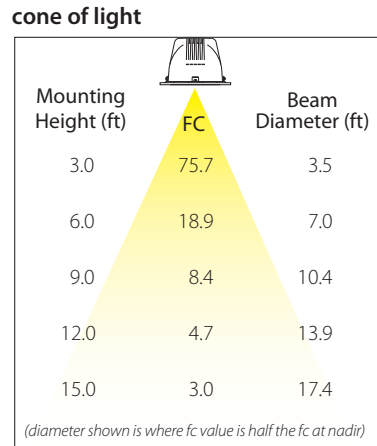
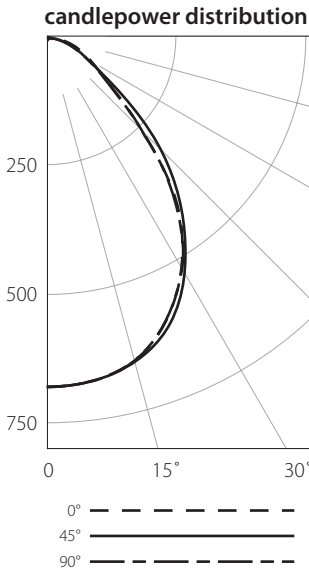
Lumens per Watt: 63

spacing criteria

0° - 180°	90° - 270°
1.0	1.0

ND4S20D + NDLED4SD-80YHC-W-X: 4" Square - 20W - 80° Optics - 3000K - 90 CRI - White cone

(Photometric report #RAB01603)



candela distribution

vertical degrees	0.0	22.5	45.0	67.5	90.0
0	681	681	681	681	681
5	677	677	677	677	677
15	652	653	654	653	651
25	574	580	586	580	574
35	452	462	460	462	448
45	254	279	305	274	248
55	120	123	127	120	117
65	57	58	58	58	56
75	27	27	27	27	26
85	7	7	6	7	6
90	0	0	0	0	0

zonal lumen summary

zone	lumens	% fix.
0- 30	515	42.1
0- 40	799	65.5
0- 60	1126	92.2
0- 90	1221	100.0
90-180	0	0.0
0-180	1221	100.0

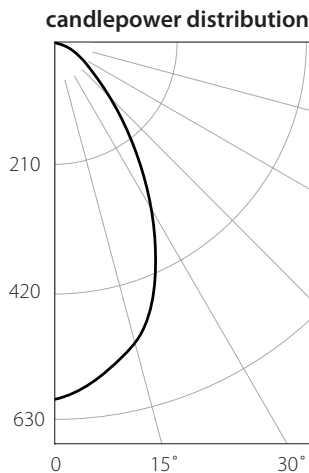
Lumens per Watt: 60

spacing criteria

0° - 180°	90° - 270°
1.2	1.1

ND4S20D + NDLED4SD-WYHC-W-X: 4" Square - 20W - Wall Washer - 3000K - 90 CRI - White cone

(Photometric report #RAB01595)



multiple units (footcandles on the walls)

2' from wall / 3' on center

1	8	8	8
2	10	10	10
3	10	10	10
4	8	8	8
5	7	7	7
6	6	6	6
7	5	5	5
8	4	4	4
9	3	3	3

3' from wall / 3' on center

1	5	4	4
2	6	6	6
3	7	7	7
4	7	7	7
5	7	7	7
6	6	6	6
7	6	5	6
8	5	5	6
9	5	5	5

3' from wall / 4' on center

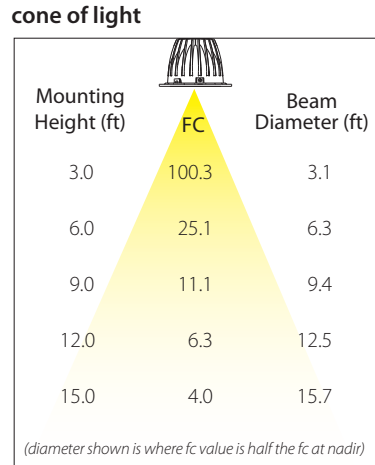
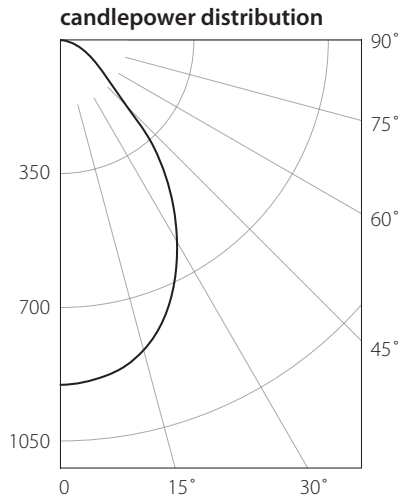
1	3	3	3
2	4	4	4
3	5	5	6
4	5	5	6
5	5	5	6
6	4	4	5
7	4	4	5
8	4	4	5
9	4	4	4

Lumens per Watt: 63

Photometrics

ND6R20D + NDLED6RD-50YHC-W-X: 6" Round - 20W - 50° Optics - 3000K - 90 CRI - White cone

(Photometric report #RAB01530MOD309020)



vertical deg.	candelas
0	902
5	896
15	839
25	692
35	515
45	246
55	124
65	67
75	40
85	13
90	1

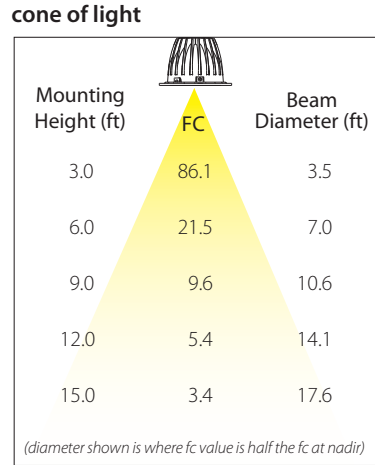
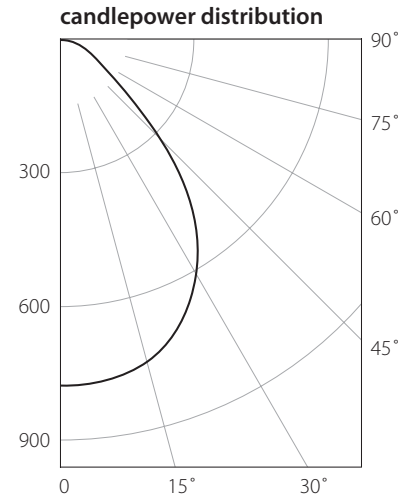
zone	lumens	% fix.
0- 30	639	45.9
0- 40	956	68.7
0- 60	1265	90.9
0- 90	1391	100.0
90-180	0	0.0
0-180	1391	100.0

Lumens per Watt: 68

Spacing Criteria 1.0

ND6R20D + NDLED6RD-80YHC-W-X: 6" Round - 20W - 80° Optics - 3000K - 90 CRI - White cone

(Photometric report #RAB01534MOD309020)



vertical deg.	candelas
0	775
5	772
15	745
25	668
35	534
45	316
55	133
65	68
75	42
85	14
90	1

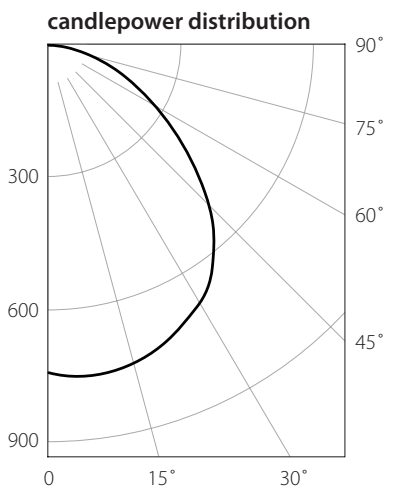
zone	lumens	% fix.
0- 30	591	41.7
0- 40	922	65.0
0- 60	1287	90.8
0- 90	1418	100.0
90-180	0	0.0
0-180	1418	100.0

Lumens per Watt: 70

Spacing Criteria 1.2

ND6R20D + NDLED6RD-WYHC-W-X: 6" Round - 20W - Wall Washer - 3000K - 90 CRI - White cone

(Photometric report #RAB01526MOD309020)



multiple units (footcandles on the walls)

2' from wall / 3' on center

Distance from ceiling (ft.)	1	2	3	4
1	12	9	12	12
2	26	20	26	26
3	26	23	26	26
4	20	19	20	20
5	15	14	15	15
6	11	11	11	11
7	9	9	9	9
8	7	7	7	7
9	5	5	5	5

3' from wall / 3' on center

Distance from ceiling (ft.)	1	2	3	4
1	4	4	4	4
2	10	11	10	10
3	16	16	16	16
4	17	17	17	17
5	15	15	15	15
6	15	13	15	15
7	11	11	11	11
8	7	7	7	7
9	6	6	6	6

3' from wall / 4' on center

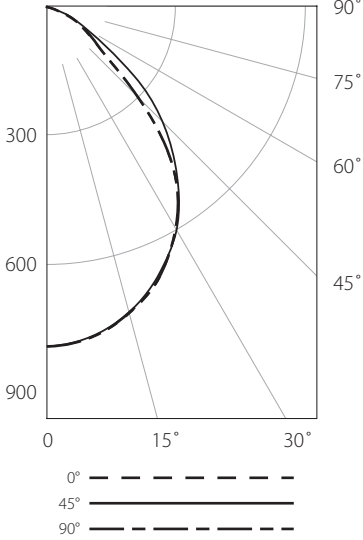
Distance from ceiling (ft.)	1	2	3	4
1	1	1	1	1
2	7	5	7	7
3	12	9	12	12
4	14	12	14	14
5	12	11	12	12
6	10	10	10	10
7	8	8	8	8
8	7	7	7	7
9	6	6	6	6

Lumens per Watt: 70

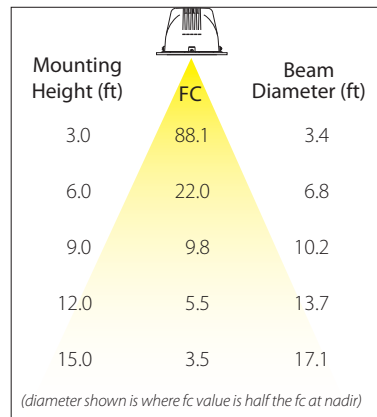
ND6S20D + NDLED6SD-50YHC-W-X: 6" Square - 20W - 50° Optics - 3000K - 90 CRI - White cone

(Photometric report #RAB01720MOD309020)

candlepower distribution



cone of light



candela distribution

vertical degrees	0.0	22.5	45.0	67.5	90.0
0	793	793	793	793	793
5	785	785	785	785	786
15	740	739	737	739	740
25	657	657	654	656	656
35	529	531	532	530	528
45	298	340	380	339	298
55	117	123	168	123	120
65	60	63	63	63	61
75	28	29	29	30	29
85	8	8	8	8	8
90	1	1	1	1	1

zonal lumen summary

zone	lumens	% fix.
0-30	584	41.8
0-40	914	65.3
0-60	1297	92.7
0-90	1399	100.0
90-180	0	0.0
0-180	1399	100.0

Lumens per Watt: 69

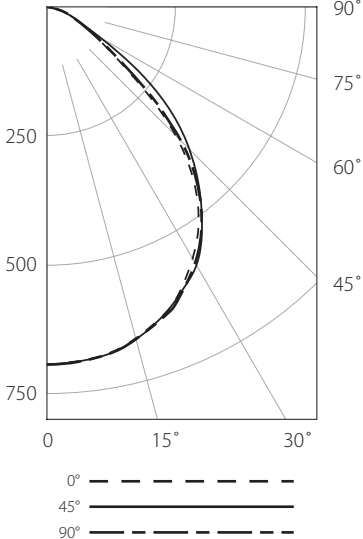
spacing criteria

0° - 180°	90° - 270°
1.1	1.1

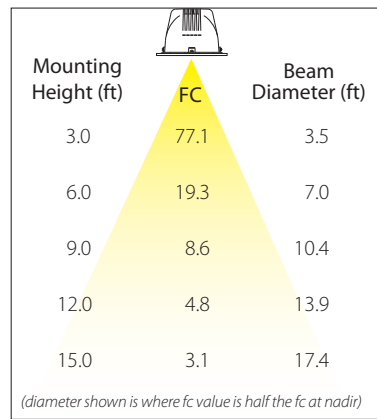
ND6S20D + NDLED6SD-80YHC-W-X: 6" Square - 20W - 80° Optics - 3000K - 90 CRI - White cone

(Photometric report #RAB01724MOD309020)

candlepower distribution



cone of light



candela distribution

vertical degrees	0.0	22.5	45.0	67.5	90.0
0	694	694	694	694	694
5	690	690	690	691	691
15	663	664	666	666	666
25	606	610	610	613	612
35	508	510	518	516	518
45	344	365	384	375	359
55	136	148	201	156	142
65	58	61	62	61	58
75	27	28	27	27	27
85	8	8	8	8	8
90	1	1	1	1	1

zonal lumen summary

zone	lumens	% fix.
0-30	534	38.5
0-40	855	61.7
0-60	1285	92.7
0-90	1386	100.0
90-180	0	0.0
0-180	1386	100.0

Lumens per Watt: 68

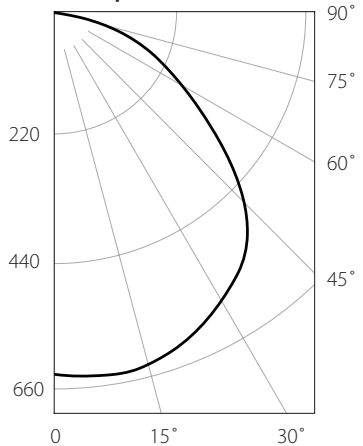
spacing criteria

0° - 180°	90° - 270°
1.2	1.2

ND6S20D + NDLED6SD-WYHC-W-X: 6" Square - 20W - Wall Washer - 3000K - 90 CRI - White cone

(Photometric report #RAB01716MOD309020)

candlepower distribution



multiple units (footcandles on the walls)

2' from wall / 3' on center

Distance from ceiling (ft.)	1	2	3	4
1	10	7	10	
2	21	16	21	
3	24	20	24	
4	19	18	19	
5	14	14	14	
6	10	10	10	
7	8	8	8	
8	7	7	7	
9	5	5	5	

3' from wall / 3' on center

Distance from ceiling (ft.)	1	2	3	4
1	4	3	4	
2	9	8	9	
3	13	13	13	
4	15	15	15	
5	14	14	14	
6	14	14	14	
7	11	11	11	
8	9	9	9	
9	7	7	7	

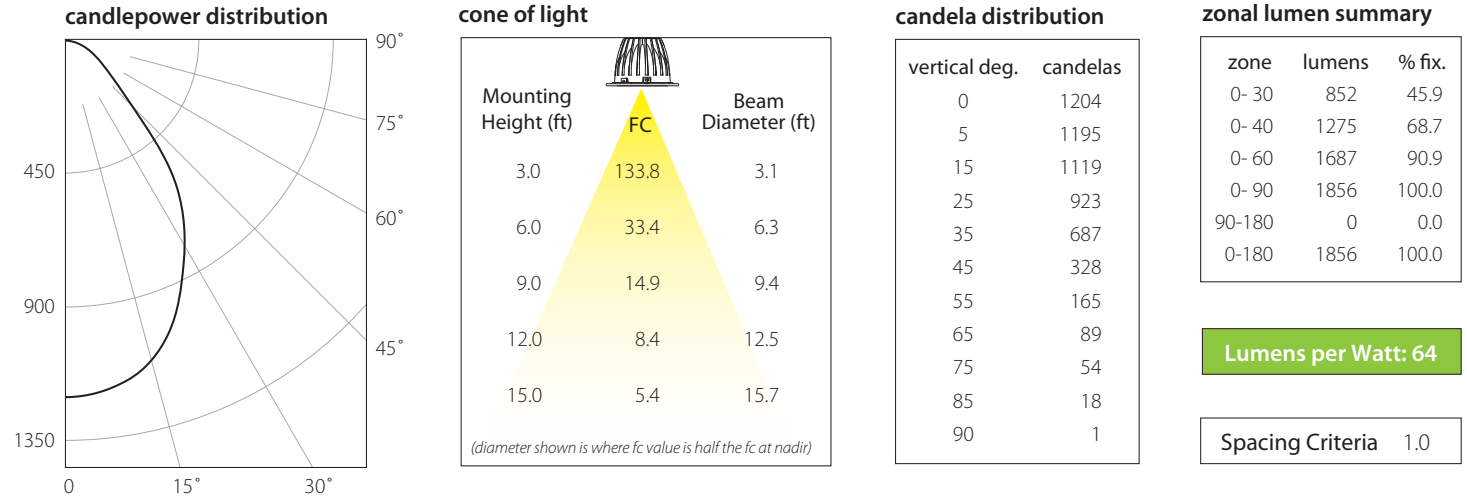
3' from wall / 4' on center

Distance from ceiling (ft.)	1	2	3	4
1	1	0	1	
2	6	4	6	
3	10	7	10	
4	12	11	12	
5	11	10	11	
6	11	10	11	
7	8	8	8	
8	7	7	7	
9	5	5	5	

Lumens per Watt: 65

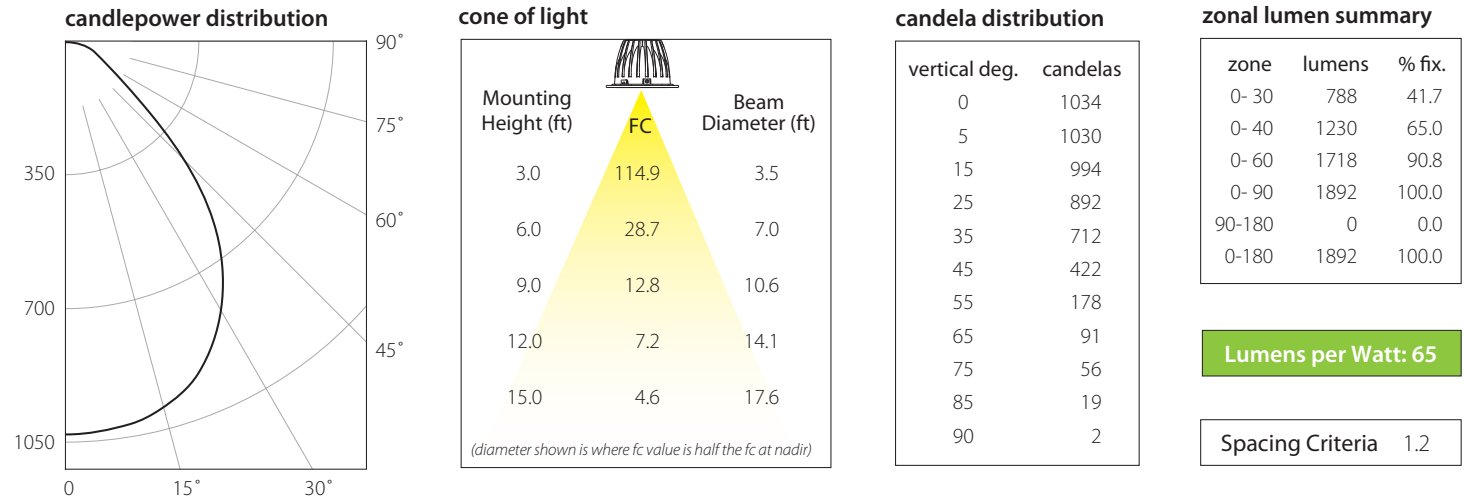
ND6R26D + NDLED6RD-50YHC-W-X: 6" Round - 26W - 50° Optics - 3000K - 90 CRI - White cone

(Photometric report #RAB01530)



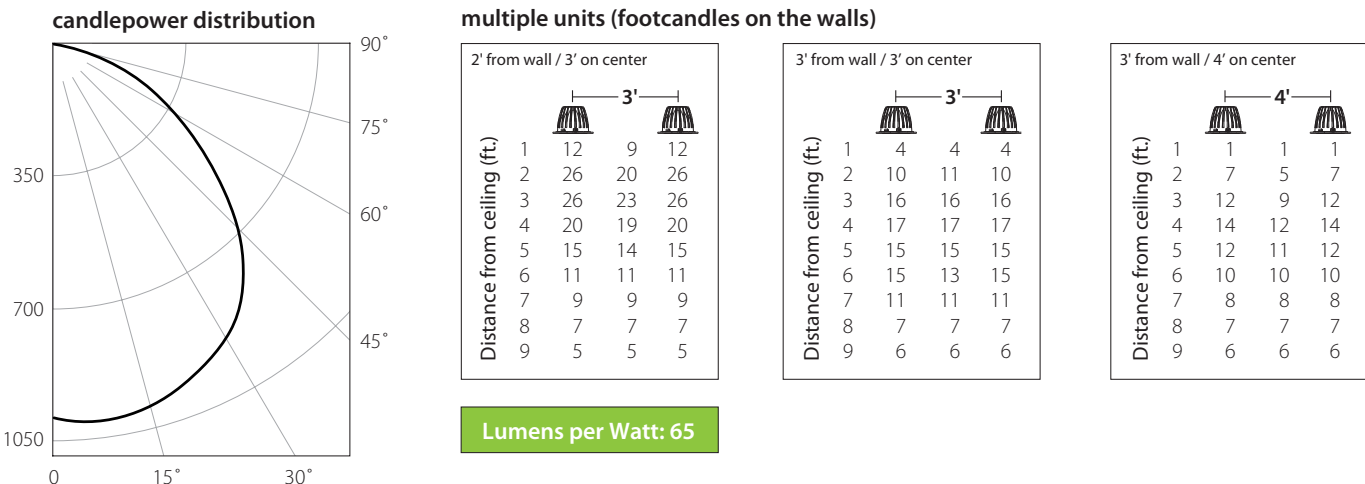
ND6R26D + NDLED6RD-80YHC-W-X: 6" Round - 26W - 80° Optics - 3000K - 90 CRI - White cone

(Photometric report #RAB01534)



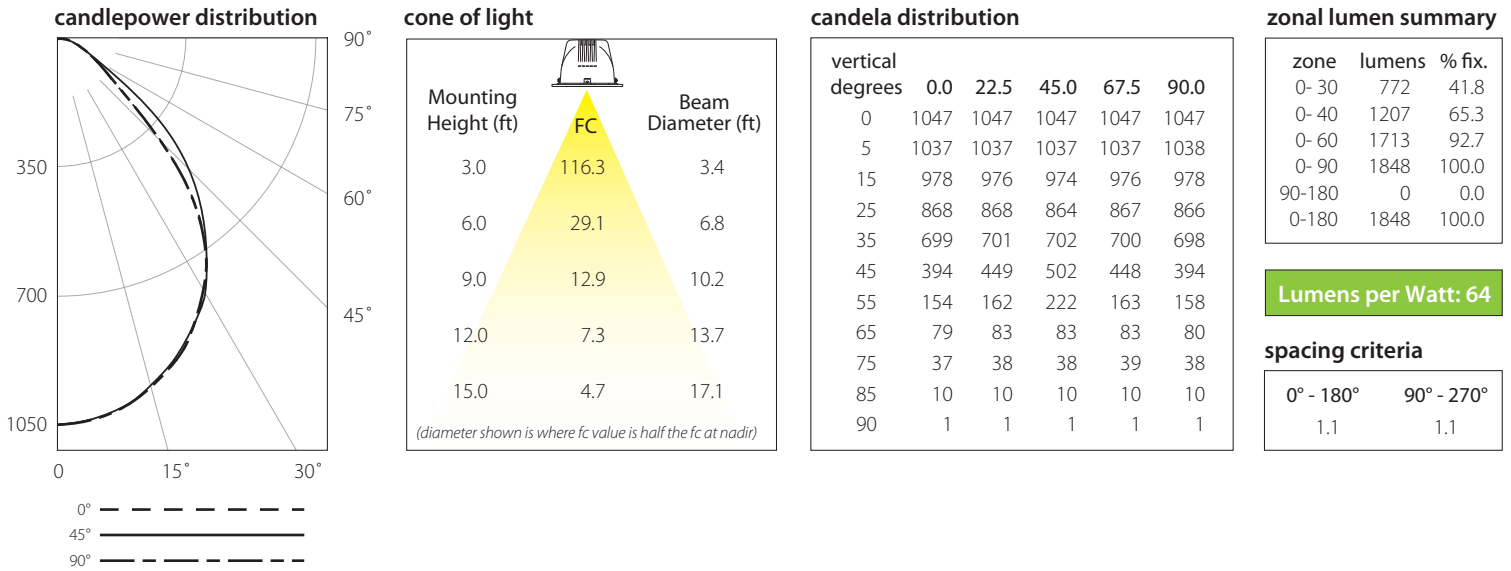
ND6R26D + NDLED6RD-WYHC-W-X: 6" Round- 26W - Wall Washer - 3000K - 90 CRI - White cone

(Photometric report #RAB01526)



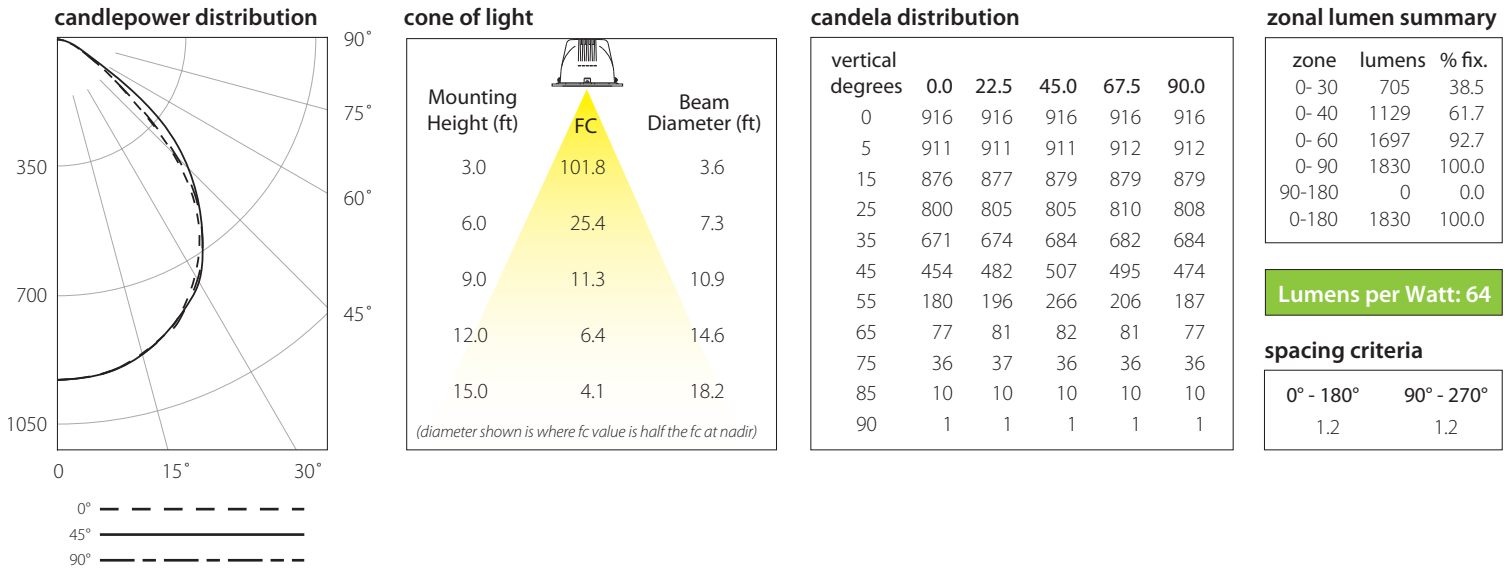
ND6S26D + NDLED6SD-50YHC-W-X: 6" Square - 26W - 50° Optics - 3000K - 90 CRI - White cone

(Photometric report #RAB01720)



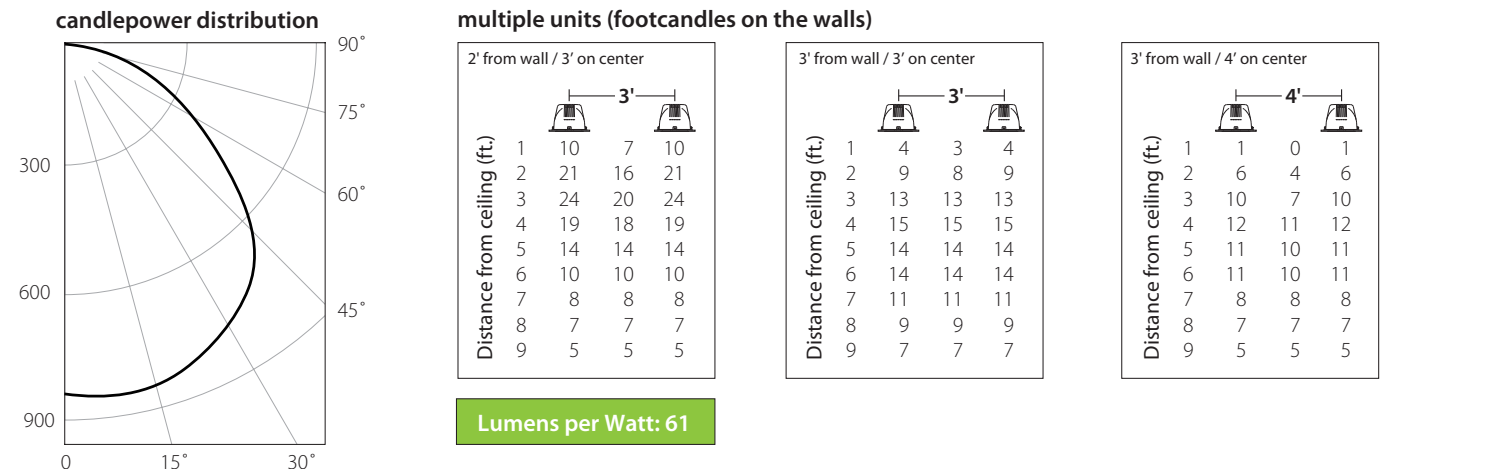
ND6S26D + NDLED6SD-80YHC-W-X: 6" Square - 26W - 80° Optics - 3000K - 90 CRI - White cone

(Photometric report #RAB01724)



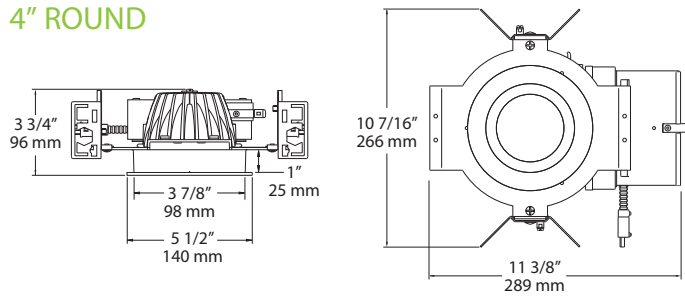
ND6S26D + NDLED6SD-WYHC-W-X: 6" Square - 26W - Wall Washer - 3000K - 90 CRI - White cone

(Photometric report #RAB01716)

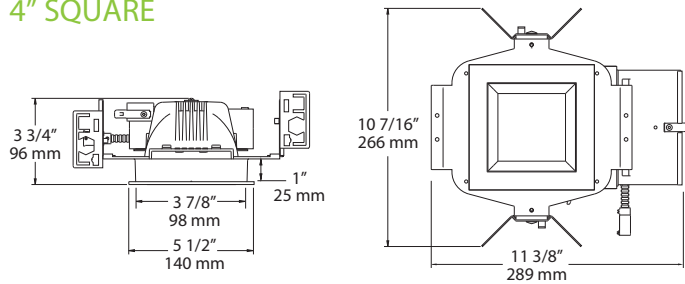


Dimensions

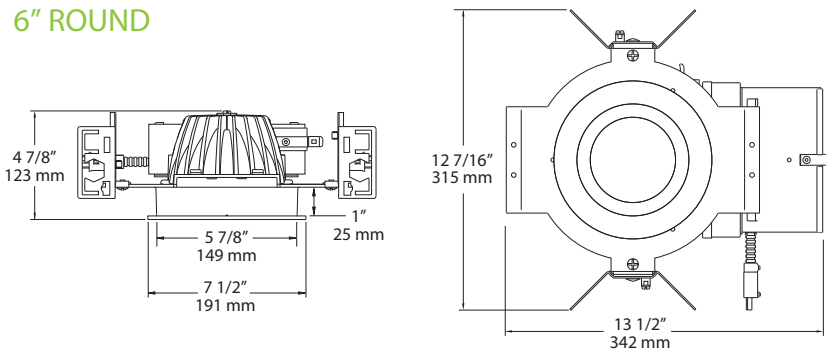
4" ROUND



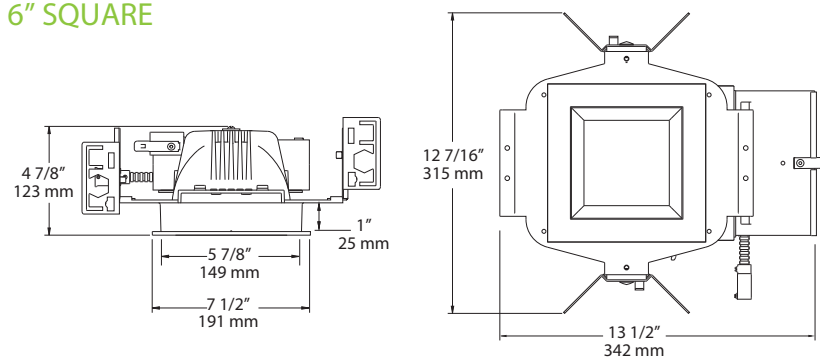
4" SQUARE



6" ROUND



6" SQUARE



Color Temperature

Color Consistency and Stability

RAB LED color consistency is reported in MacAdam ellipses and is shown below. RAB LED color stability is measured based on LM-80 testing and is available upon request.

Residential Warm



Nominal CCT: 2700K
Color Consistency: 3 Step

Warm



Nominal CCT: 3000K
Color Consistency: 3 Step

Warm/Neutral



Nominal CCT: 3500K
Color Consistency: 3 Step

Neutral



Nominal CCT: 4000K
Color Consistency: 3 Step

Dimmer Compatibility

LUTRON

Diva DVELV-303P
Diva DVCL-153P
Diva DV-600P
Feadra FAELV-500
Lumea LG-600P
Maestro MAELV-600
Skylark CT-103P
Skylark S-603PG
Skylark SELV-300P
Skylark S-600P
Toggler TGCL-153P
Toggler TG-600P

LEVITON

Decora 6161
IllumaTech IPI06-1LZ
IllumaTech IPE04
SureSlide 6631-2
SureSlide 6633-P
Trimatron 6683-IW
Vizia VPE06

COOPER

Devine DLC03P
Devine DAL06P
Skye SLC03P

LIGHTOLIER

Sunrise ZP260QEW

** This partial list contains a representative selection of known compatible dimming controls.*

Rough-In Specifications

UL Listing: Suitable for wet locations covered ceiling

Driver: Constant Current, Class 2, 120-277V, 50/60Hz, 350mA, 0.15A, Power Factor 98.9%, THD ≤20%

Dimming: Universal dimming driver for 0-10V (at 120-277V), TRIAC or ELV (at 120V only).*

Drop Ceiling Installation: NDLED can be installed in drop ceiling tiles when using optional c-channel bars and following local construction codes

Butterfly Brackets: Butterfly brackets accept nailer bars, 1/2" conduit, 1/4" or 1/2" bar stock, or c-channels

Thermal Protection: Thermal protector included. Disables power if temperature exceeds safe operation levels.

Cut Out Dimensions:

4" Round: 5" diameter

4" Square: 5" x 5"

6" Round: 7" diameter

6" Square: 7" x 7"

Green Technology: Mercury & UV free

*See dimmer compatibility list.

Trim Module Specifications

UL Listing: Suitable for wet locations covered ceiling

LED: Long-life, high-output LED module. Binned for natural white light to match incandescent and 3-step MacAdam Ellipse consistency.

Lifespan: 100,000-hour LED lifespan based on IES LM-80 results and TM-21 calculations

Housing: Professional-grade, die-cast aluminum construction

Lens: Microprismatic lens provides smooth, uniform light

Finish: Chip and fade resistant polyester powder coat finish

Green Technology: Mercury & UV free

Rough-In Catalog Number Matrix

Product Family	Housing	Shape	Wattage	Driver	Emergency Battery Backup	Lightcloud®	Installation
ND Standard	4 4"	R Round	12 12W (4")	D TRIAC, ELV and 0-10V Dimming	Blank None	Blank No Lightcloud®	Standard Blank
NDIC Insulated Ceiling Rated	6 6"	S Square	20 20W (4"/6") 26 26W (6")		/E2 120-277V	/LC Lightcloud®	/CP Chicago Plenum

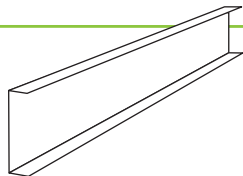
LED Trim Module Catalog Number Matrix

Product Family	Housing	Shape	Optics	Color Temp	CRI	Trim Cone Color	Trim Ring Color
NDLED	4 4" 6 6"	RD Round SD Square	50 50° 80 80° W Wall washer	N 4000K YN 3500K Y 3000K YY 2700K	Blank 80 CRI HC 90 CRI	S Specular Silver M Matte Silver W White B Black	W White B Black S Silver

Accessories

C-CHAN27 27" C-Channels

C-CHAN51 51" C-Channels



LED Remodeler

Great design. Industry-leading performance.
All at a reasonable price.



ENERGY STAR Luminaires V2.0

RAB[®]
LIGHTING
RABWEB.COM • 888 722-1000

LED REMODELER



- Universal driver is compatible with TRIAC, ELV and 0-10V dimmers*
- ENERGY STAR V2.0 certified
- 12W replaces 75W R30, 20W & 26W replace 100W PAR
- Up to 2701 lumens and 103 lm/W
- 90+ CRI available; meets California Quality Spec
- Available in 2700, 3000, 3500 and 4000K



Absolute White™
3-step consistency and black body accurate. Less than 200K shift warranted.

Great design. Leading performance. All at a reasonable price.



Low glare.

The microprismatic diffusion lens optimizes lumen output and delivers smooth, uniform illumination.



Easy dimming.

The RDLED dims down to an industry-leading 5% with one single driver that's compatible with ELV, TRIAC, and 0-10V dimmers.*



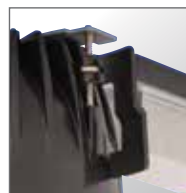
Low profile.

Low-profile design requires just 3 3/4" (for 4") and 4 15/16" (for 6") of clearance above ceiling



90+ CRI.

High color rendering ensures that a room's colors are accurate in appearance.



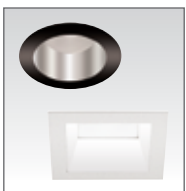
Easy installs.

Ceiling clamps install quicker & more securely than spring forms. Can clamp ceilings up to 1 1/4" thick.



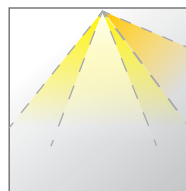
Patent-pending design.

Patent-pending pivot swivel for wall washer model maneuvers around joints and enables off-axis lighting



Options.

4" and 6" models are offered with either round or square trim.



Optics.

All downlights are available with 50° or 80° beam spreads, or as a wall washer.



In color.

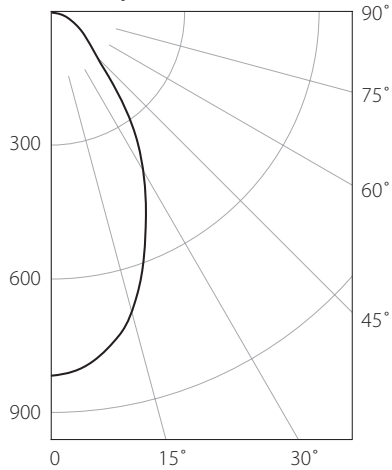
Available in 3 trim colors (white, black, silver) and 4 cone colors (white, black, matte silver, specular)

*See dimmer compatibility list.

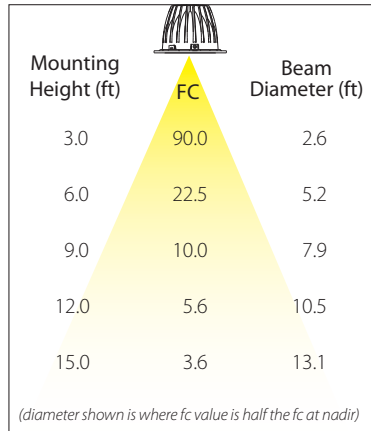
RDLED4R12D-50YHC-W-X: 4" Round - 12W - 50° Optics - 3000K - 90 CRI - White cone

(Photometric report #RAB01355)

candlepower distribution



cone of light



candela distribution

vertical deg.	candelas
0	810
5	795
15	692
25	498
35	324
45	146
55	90
65	52
75	25
85	6
90	0

zonal lumen summary

zone	lumens	% fix.
0- 30	497	50.6
0- 40	696	71.0
0- 60	895	91.3
0- 90	981	100.0
90-180	0	0.0
0-180	981	100.0

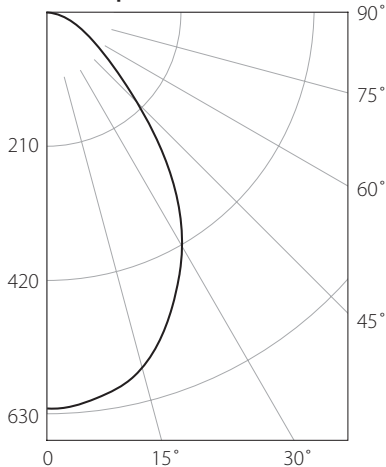
Lumens per Watt: 69

Spacing Criteria 0.9

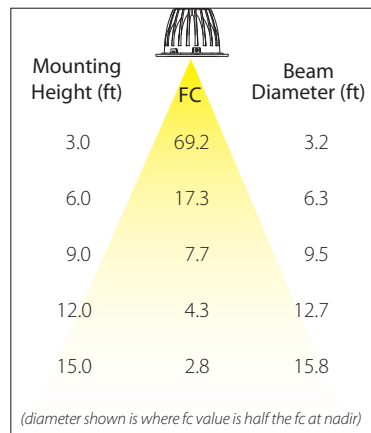
RDLED4R12D-80YHC-W-X: 4" Round - 12W - 80° Optics - 3000K - 90 CRI - White cone

(Photometric report #RAB01186MOD309012)

candlepower distribution



cone of light



candela distribution

vertical deg.	candelas
0	622
5	617
15	576
25	481
35	359
45	199
55	103
65	55
75	26
85	7
90	0

zonal lumen summary

zone	lumens	% fix.
0- 30	441	43.9
0- 40	663	66.0
0- 60	913	90.9
0- 90	1004	100.0
90-180	0	0.0
0-180	1004	100.0

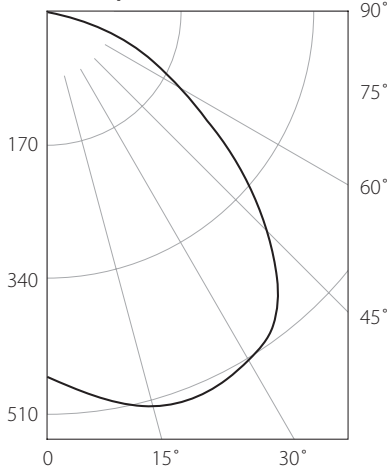
Lumens per Watt: 71

Spacing Criteria 1.1

RDLED4R12D-WYHC-W-X: 4" Round - 12W - Wall Washer - 3000K - 90 CRI - White cone

(Photometric report #RAB01201MOD309012)

candlepower distribution



multiple units (footcandles on the walls)

2' from wall / 3' on center

Distance from ceiling (ft.)	1	20	17	21
2	18	18	19	
3	14	14	14	
4	10	10	10	
5	8	8	8	
6	6	6	6	
7	5	5	5	
8	4	4	4	
9	3	3	3	

3' from wall / 3' on center

Distance from ceiling (ft.)	1	10	10	10
2	13	13	13	
3	13	13	13	
4	11	11	11	
5	9	9	9	
6	8	8	8	
7	6	6	6	
8	5	5	5	
9	4	4	4	

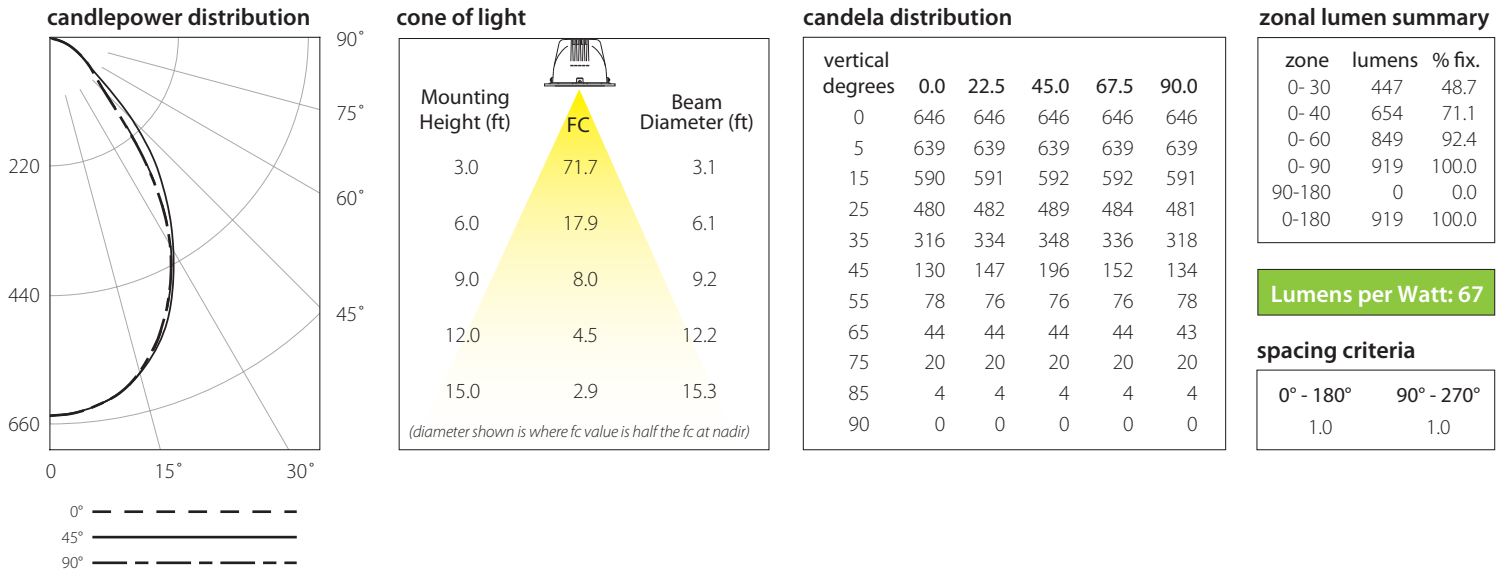
3' from wall / 4' on center

Distance from ceiling (ft.)	1	5	7	5
2	9	10	9	
3	10	10	10	
4	9	9	9	
5	7	7	7	
6	6	6	6	
7	5	5	5	
8	4	4	4	
9	3	3	3	

Lumens per Watt: 66

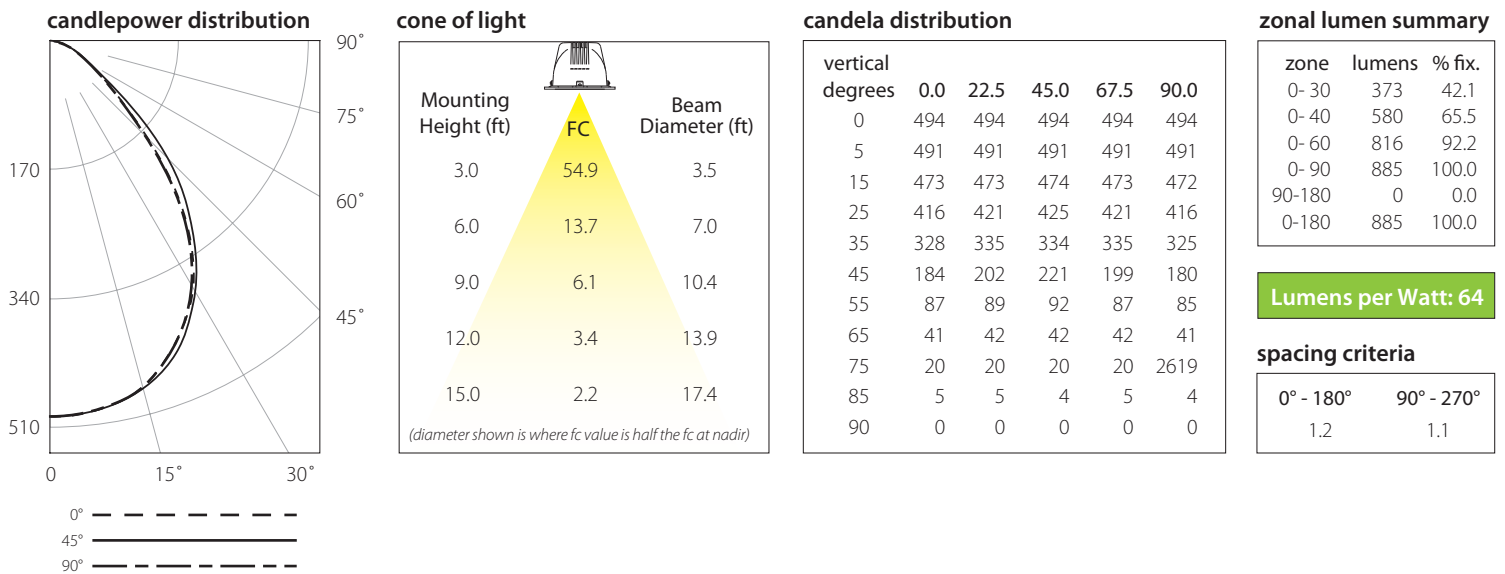
RDLED4S12D-50YHC-W-X: 4" Square - 12W - 50° Optics - 3000K - 90 CRI - White cone

(Photometric report #RAB01611MOD309012)



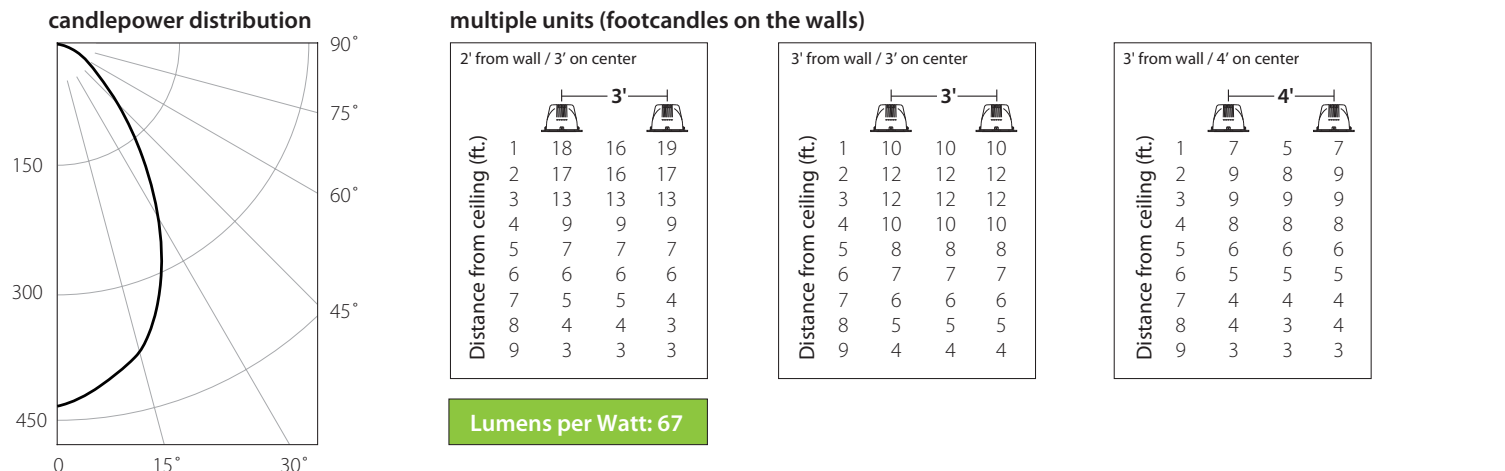
RDLED4S12D-80YHC-W-X: 4" Square - 12W - 80° Optics - 3000K - 90 CRI - White cone

(Photometric report #RAB01603MOD309012)



RDLED4S12D-WYHC-W-X: 4" Square - 12W - Wall Washer - 3000K - 90 CRI - White cone

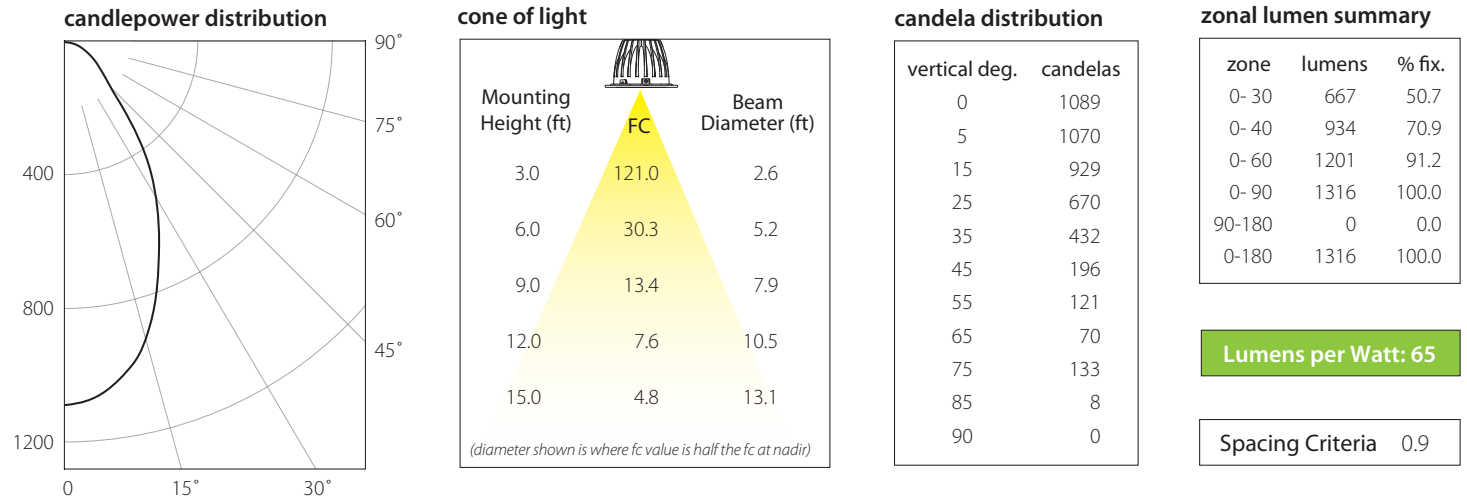
(Photometric report #RAB01595MOD309012)



Photometrics

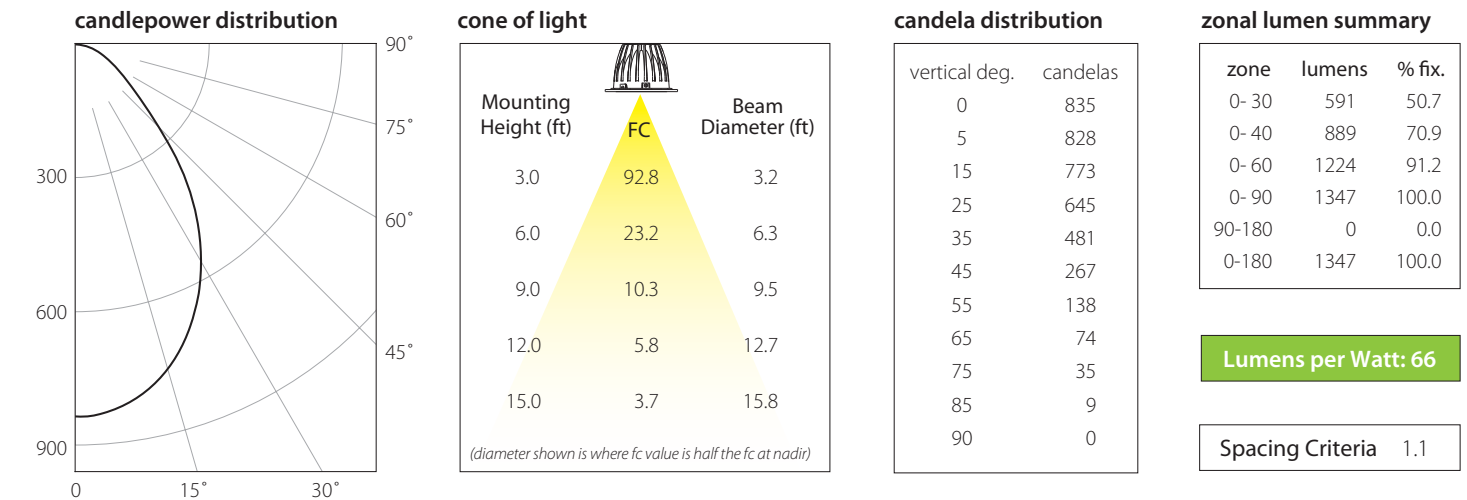
RDLED4R20D-50YHC-W-X: 4" Round - 20W - 50° Optics - 3000K - 90 CRI - White cone

(Photometric report #RAB0122)



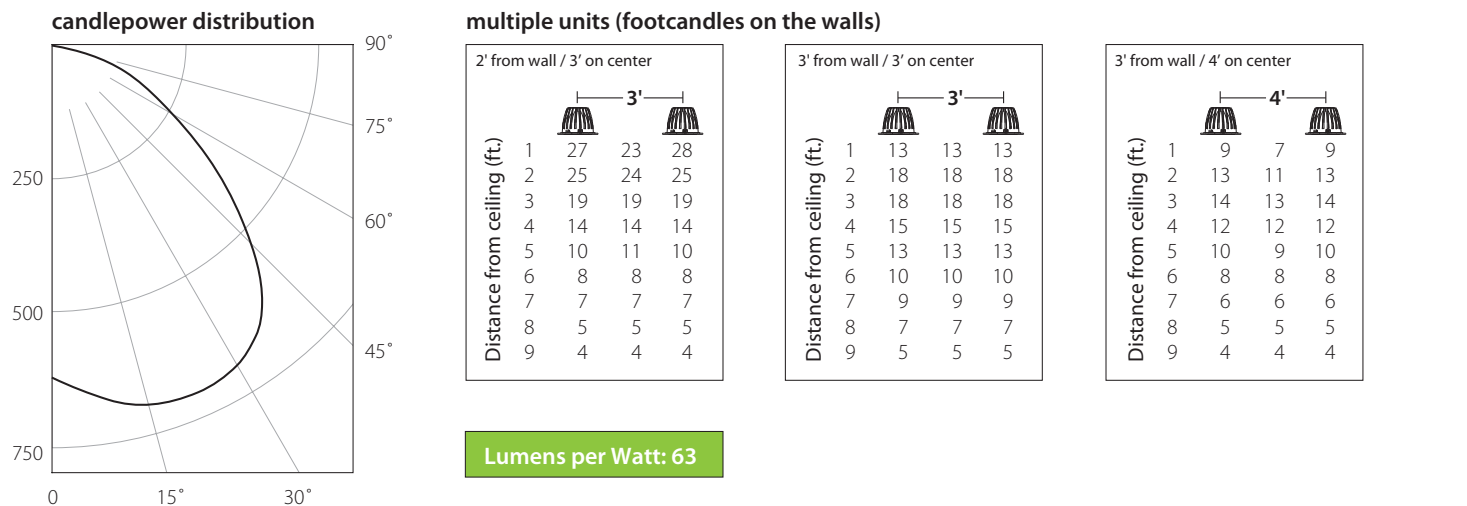
RDLED4R20D-80YHC-W-X: 4" Round - 20W - 80° Optics - 3000K - 90 CRI - White cone

(Photometric report #RAB01185)



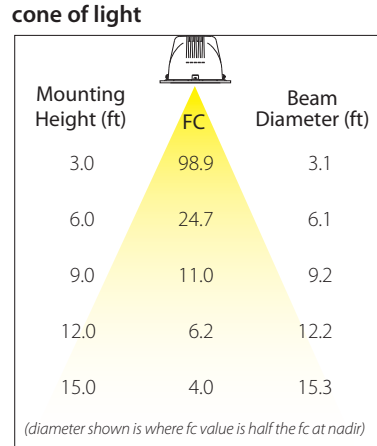
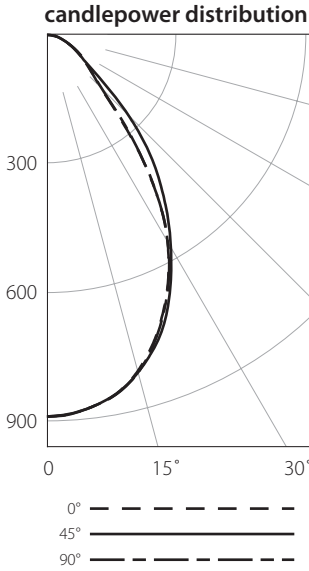
RDLED4R20D-WYHC-W-X: 4" Round - 20W - Wall Washer - 3000K - 90 CRI - White cone

(Photometric report #RAB01200)



RDLED4S20D-50YHC-W-X: 4" Square - 20W - 50° Optics - 3000K - 90 CRI - White cone

(Photometric report #RAB01611)



candela distribution

vertical degrees	0.0	22.5	45.0	67.5	90.0
0	890	890	890	890	890
5	881	881	881	881	881
15	813	814	816	816	815
25	661	664	674	667	663
35	435	460	479	463	439
45	179	203	270	210	185
55	108	105	105	105	107
65	60	60	60	60	59
75	28	28	27	27	27
85	6	6	6	6	6
90	0	0	0	0	0

zonal lumen summary

zone	lumens	% fix.
0- 30	617	48.7
0- 40	901	71.1
0- 60	1170	92.4
0- 90	1267	100.0
90-180	0	0.0
0-180	1267	100.0

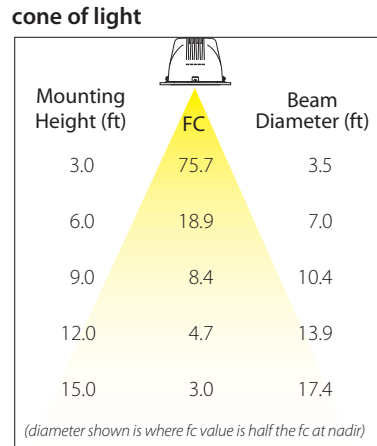
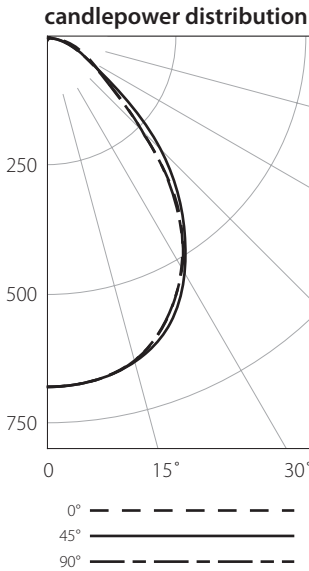
Lumens per Watt: 63

spacing criteria

0° - 180°	90° - 270°
1.0	1.0

RDLED4S20D-80YHC-W-X: 4" Square - 20W - 80° Optics - 3000K - 90 CRI - White cone

(Photometric report #RAB01603)



candela distribution

vertical degrees	0.0	22.5	45.0	67.5	90.0
0	681	681	681	681	681
5	677	677	677	677	677
15	652	653	654	653	651
25	574	580	586	580	574
35	452	462	460	462	448
45	254	279	305	274	248
55	120	123	127	120	117
65	57	58	58	58	56
75	27	27	27	27	26
85	7	7	6	7	6
90	0	0	0	0	0

zonal lumen summary

zone	lumens	% fix.
0- 30	515	42.1
0- 40	799	65.5
0- 60	1126	92.2
0- 90	1221	100.0
90-180	0	0.0
0-180	1221	100.0

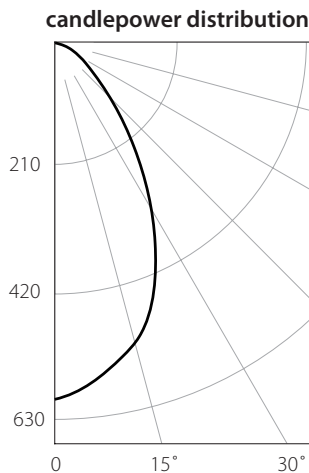
Lumens per Watt: 60

spacing criteria

0° - 180°	90° - 270°
1.2	1.1

RDLED4S20D-WYHC-W-X: 4" Square - 20W - Wall Washer - 3000K - 90 CRI - White cone

(Photometric report #RAB01595)



multiple units (footcandles on the walls)

2' from wall / 3' on center

	3'		
Distance from ceiling (ft.)	1	8	8
2	10	10	10
3	10	10	10
4	8	8	8
5	7	7	7
6	6	6	6
7	5	5	5
8	4	4	4
9	3	3	3

3' from wall / 3' on center

	3'		
Distance from ceiling (ft.)	1	5	4
2	6	6	6
3	7	7	7
4	7	7	7
5	7	7	7
6	6	6	6
7	6	5	6
8	5	5	6
9	5	5	5

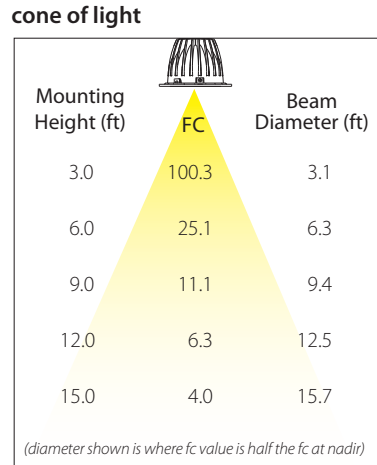
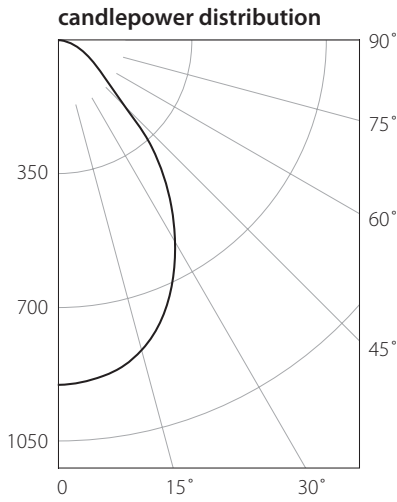
3' from wall / 4' on center

	4'		
Distance from ceiling (ft.)	1	3	3
2	4	4	4
3	5	5	6
4	5	5	6
5	5	5	6
6	4	4	5
7	4	4	5
8	4	4	5
9	4	4	4

Lumens per Watt: 63

RDLED6R20D-50YHC-W-X: 6" Round - 20W - 50° Optics - 3000K - 90 CRI - White cone

(Photometric report #RAB01530MOD309020)



vertical deg.	candelas
0	902
5	896
15	839
25	692
35	515
45	246
55	124
65	67
75	40
85	13
90	1

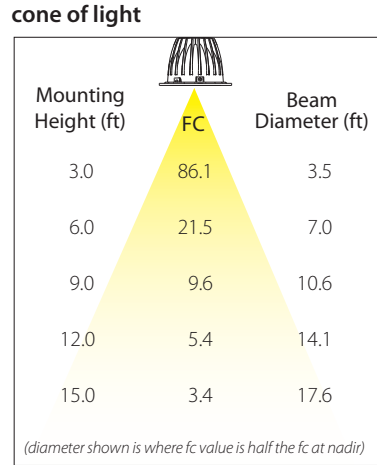
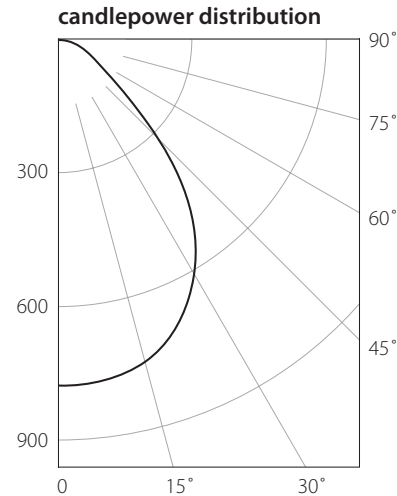
zone	lumens	% fix.
0- 30	639	45.9
0- 40	956	68.7
0- 60	1265	90.9
0- 90	1391	100.0
90-180	0	0.0
0-180	1391	100.0

Lumens per Watt: 68

Spacing Criteria 1.0

RDLED6R20D-80YHC-W-X: 6" Round - 20W - 80° Optics - 3000K - 90 CRI - White cone

(Photometric report #RAB01534MOD309020)



vertical deg.	candelas
0	775
5	772
15	745
25	668
35	534
45	316
55	133
65	68
75	42
85	14
90	1

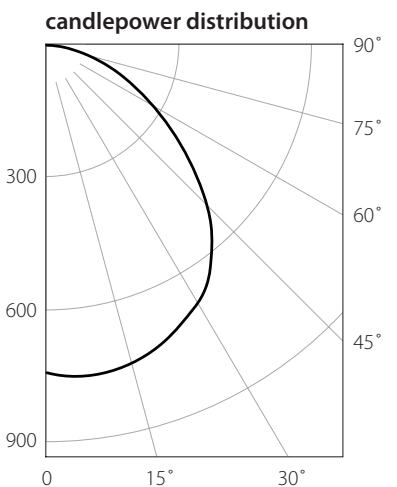
zone	lumens	% fix.
0- 30	591	41.7
0- 40	922	65.0
0- 60	1287	90.8
0- 90	1418	100.0
90-180	0	0.0
0-180	1418	100.0

Lumens per Watt: 70

Spacing Criteria 1.2

RDLED6R20D-WYHC-W-X: 6" Round - 20W - Wall Washer - 3000K - 90 CRI - White cone

(Photometric report #RAB01526MOD309020)



multiple units (footcandles on the walls)

2' from wall / 3' on center

Distance from ceiling (ft.)	1	12	9	12
1	12	9	12	12
2	26	20	26	26
3	26	23	26	26
4	20	19	20	20
5	15	14	15	15
6	11	11	11	11
7	9	9	9	9
8	7	7	7	7
9	5	5	5	5

3' from wall / 3' on center

Distance from ceiling (ft.)	1	4	4	4
1	4	4	4	4
2	10	11	10	10
3	16	16	16	16
4	17	17	17	17
5	15	15	15	15
6	15	13	15	15
7	11	11	11	11
8	7	7	7	7
9	6	6	6	6

3' from wall / 4' on center

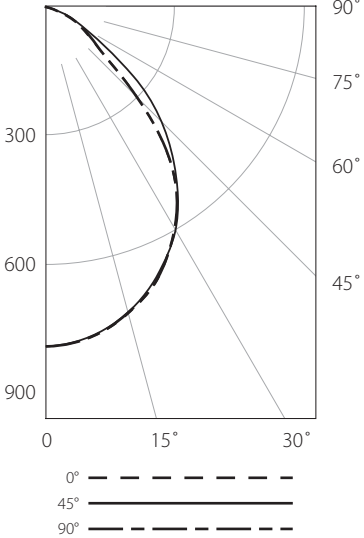
Distance from ceiling (ft.)	1	1	1	1
1	1	1	1	1
2	7	5	7	7
3	12	9	12	12
4	14	12	14	14
5	12	11	12	12
6	10	10	10	10
7	8	8	8	8
8	7	7	7	7
9	6	6	6	6

Lumens per Watt: 70

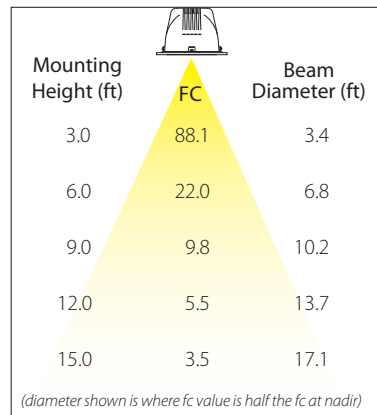
RDLED6S20D-50YHC-W-X: 6" Square - 20W - 50° Optics - 3000K - 90 CRI - White cone

(Photometric report #RAB01720MOD309020)

candlepower distribution



cone of light



candela distribution

vertical degrees	0.0	22.5	45.0	67.5	90.0
0	793	793	793	793	793
5	785	785	785	785	786
15	740	739	737	739	740
25	657	657	654	656	656
35	529	531	532	530	528
45	298	340	380	339	298
55	117	123	168	123	120
65	60	63	63	63	61
75	28	29	29	30	29
85	8	8	8	8	8
90	1	1	1	1	1

zonal lumen summary

zone	lumens	% fix.
0-30	584	41.8
0-40	914	65.3
0-60	1297	92.7
0-90	1399	100.0
90-180	0	0.0
0-180	1399	100.0

Lumens per Watt: 69

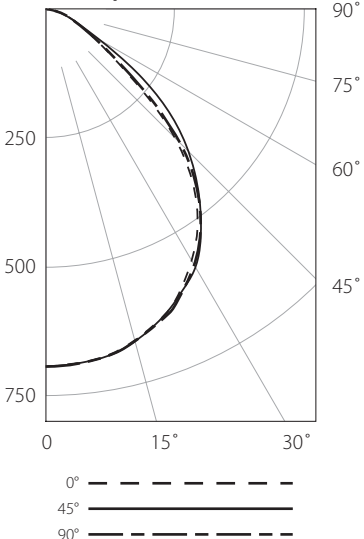
spacing criteria

0° - 180°	90° - 270°
1.1	1.1

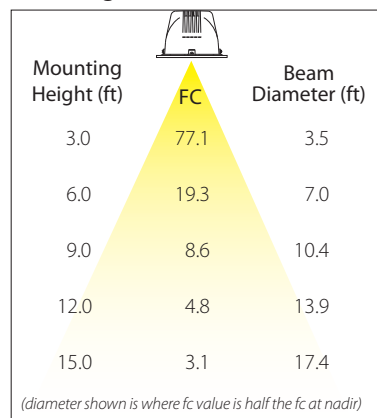
RDLED6S20D-80YHC-W-X: 6" Square - 20W - 80° Optics - 3000K - 90 CRI - White cone

(Photometric report #RAB01724MOD309020)

candlepower distribution



cone of light



candela distribution

vertical degrees	0.0	22.5	45.0	67.5	90.0
0	694	694	694	694	694
5	690	690	690	691	691
15	663	664	666	666	666
25	606	610	610	613	612
35	508	510	518	516	518
45	344	365	384	375	359
55	136	148	201	156	142
65	58	61	62	61	58
75	27	28	27	27	27
85	8	8	8	8	8
90	1	1	1	1	1

zonal lumen summary

zone	lumens	% fix.
0-30	534	38.5
0-40	855	61.7
0-60	1285	92.7
0-90	1386	100.0
90-180	0	0.0
0-180	1386	100.0

Lumens per Watt: 68

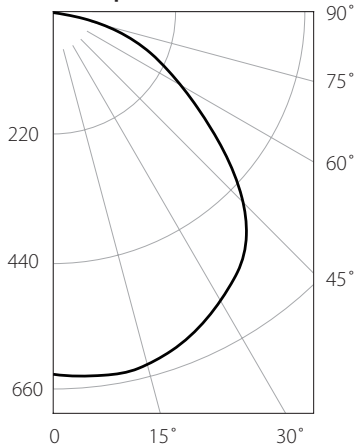
spacing criteria

0° - 180°	90° - 270°
1.2	1.2

RDLED6S20D-WYHC-W-X: 6" Square - 20W - Wall Washer - 3000K - 90 CRI - White cone

(Photometric report #RAB01716MOD309020)

candlepower distribution



multiple units (footcandles on the walls)

2' from wall / 3' on center

Distance from ceiling (ft.)	1	10	7	10
2	21	16	21	
3	24	20	24	
4	19	18	19	
5	14	14	14	
6	10	10	10	
7	8	8	8	
8	7	7	7	
9	5	5	5	

3' from wall / 3' on center

Distance from ceiling (ft.)	1	4	3	4
2	9	8	9	
3	13	13	13	
4	15	15	15	
5	14	14	14	
6	14	14	14	
7	11	11	11	
8	9	9	9	
9	7	7	7	

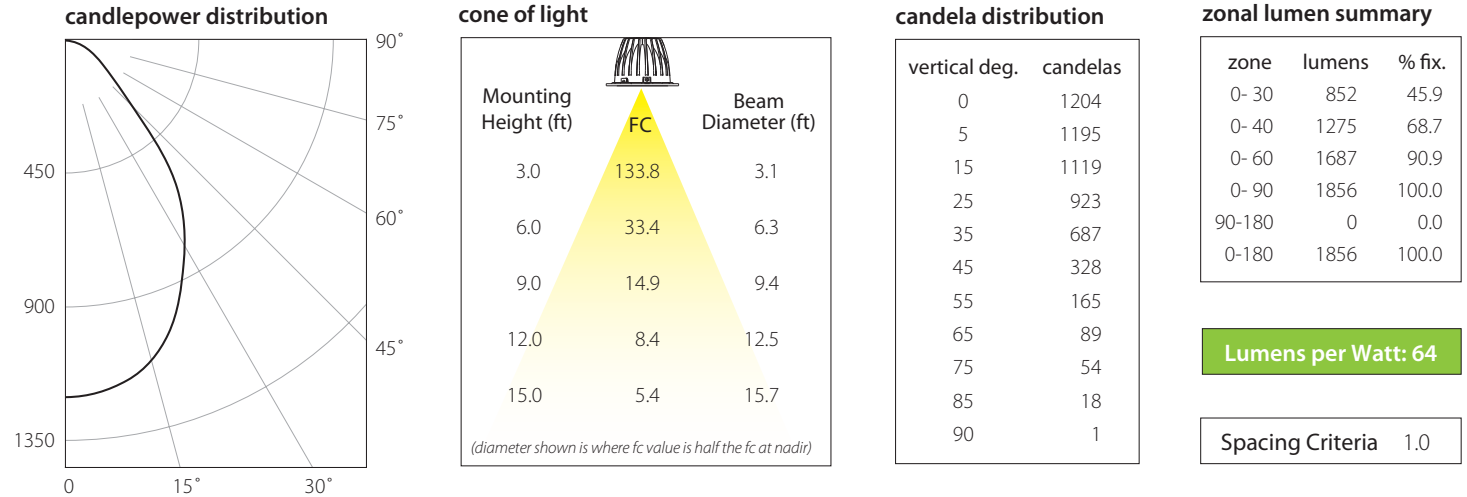
3' from wall / 4' on center

Distance from ceiling (ft.)	1	1	0	1
2	6	4	6	
3	10	7	10	
4	12	11	12	
5	11	10	11	
6	11	10	11	
7	8	8	8	
8	7	7	7	
9	5	5	5	

Lumens per Watt: 65

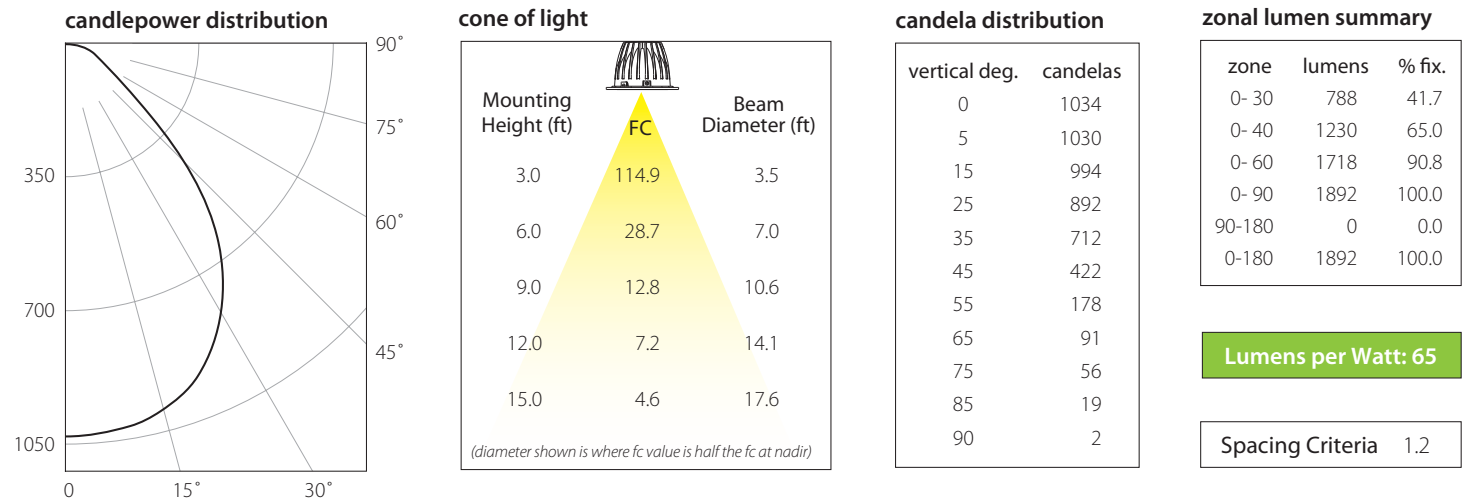
RDLED6R26D-50YHC-W-X: 6" Round - 26W - 50° Optics - 3000K - 90 CRI - White cone

(Photometric report #RAB01530)



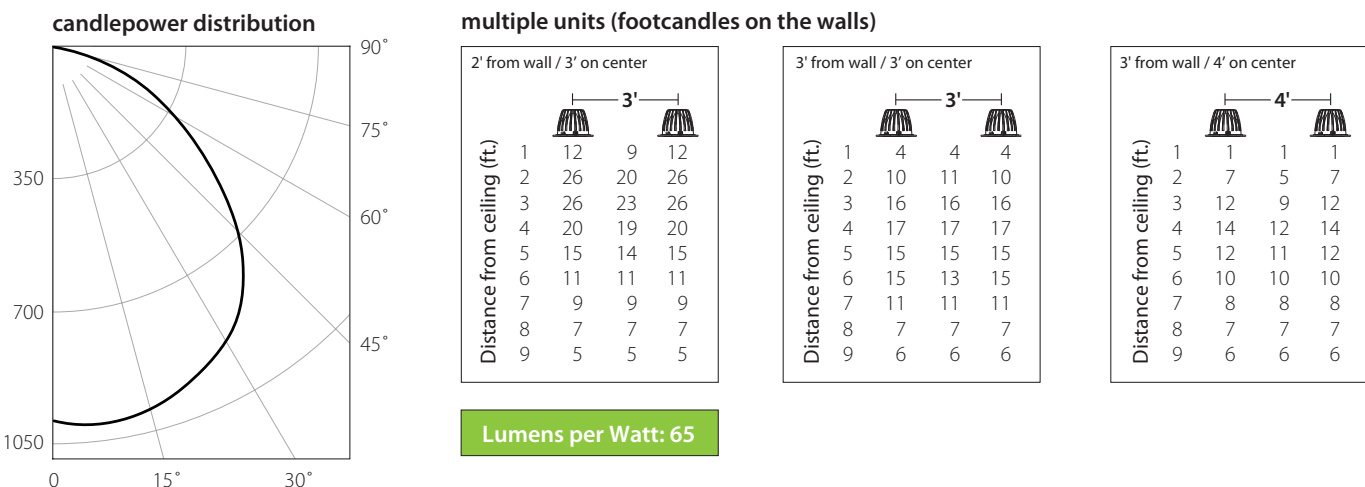
RDLED6R26D-80YHC-W-X: 6" Round - 26W - 80° Optics - 3000K - 90 CRI - White cone

(Photometric report #RAB01534)



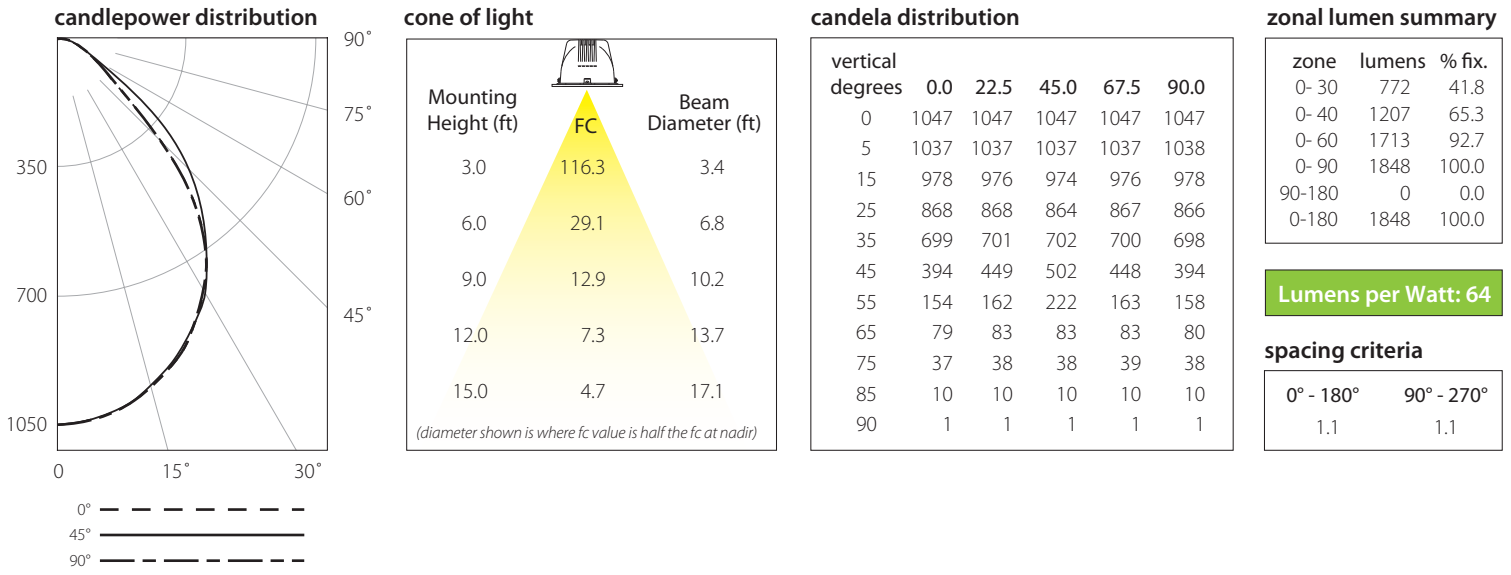
RDLED6R26D-WYHC-W-X: 6" Round- 26W - Wall Washer - 3000K - 90 CRI - White cone

(Photometric report #RAB01526)



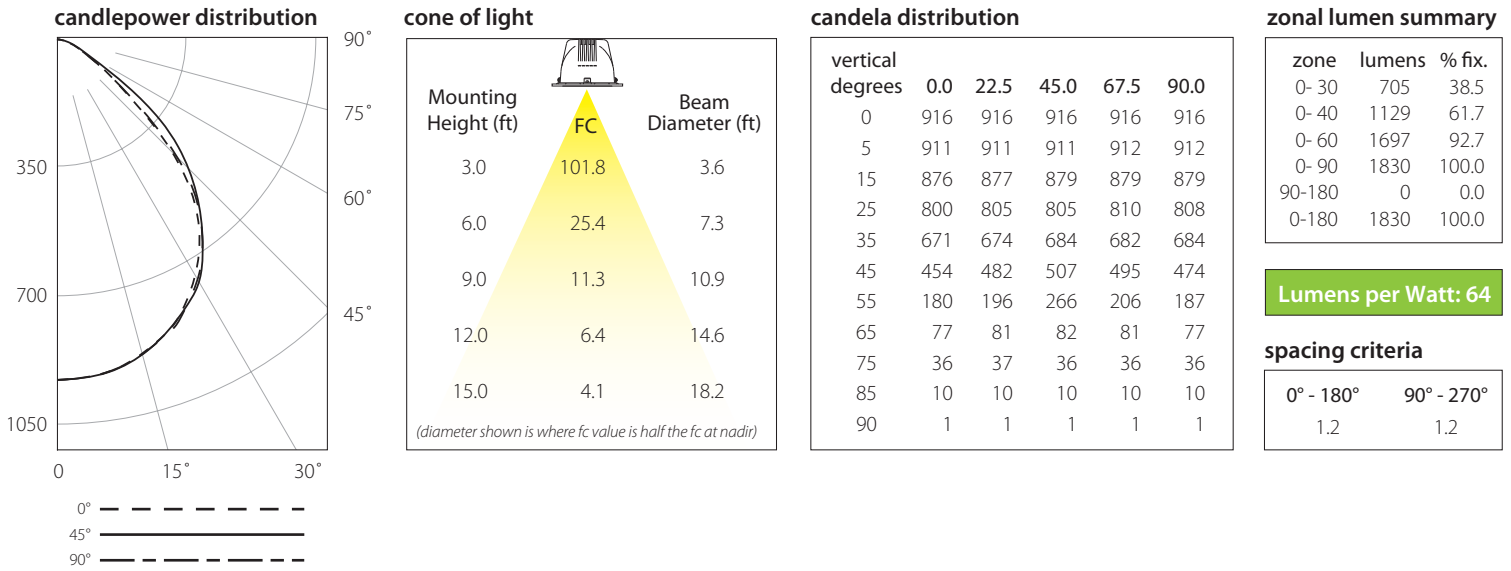
RDLED6S26D-50YHC-W-X: 6" Square - 26W - 50° Optics - 3000K - 90 CRI - White cone

(Photometric report #RAB01720)



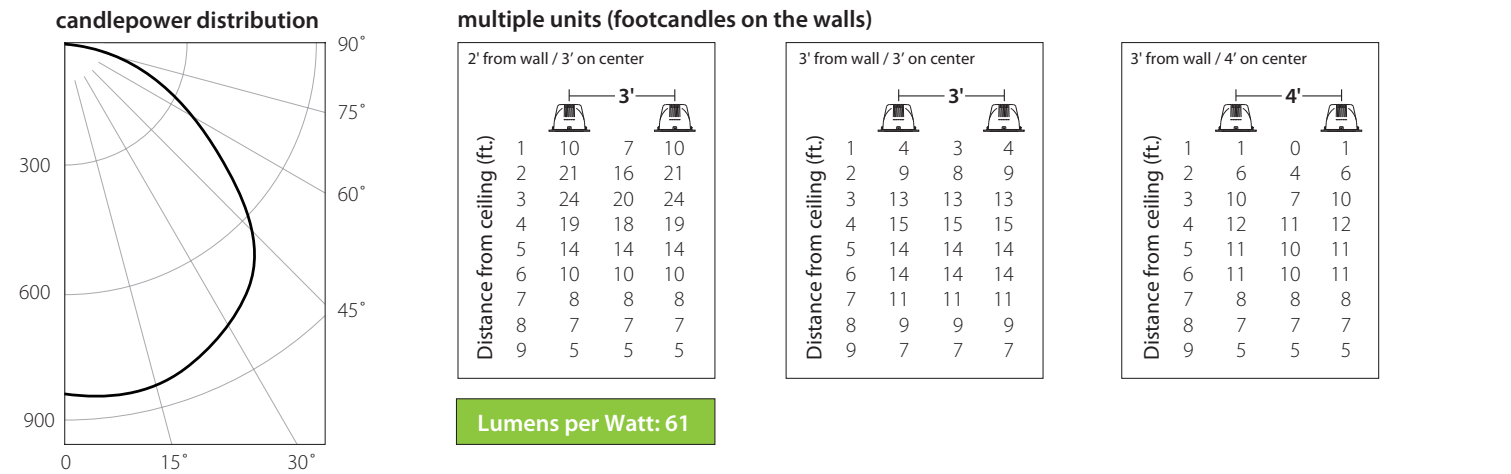
RDLED6S26D-80YHC-W-X: 6" Square - 26W - 80° Optics - 3000K - 90 CRI - White cone

(Photometric report #RAB01724)



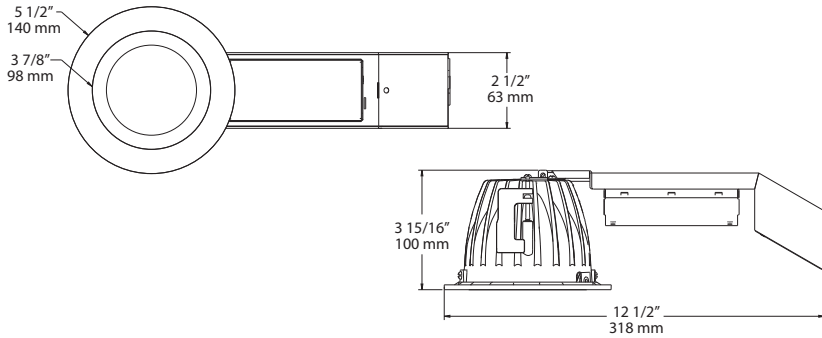
RDLED6S26D-WYHC-W-X: 6" Square - 26W - Wall Washer - 3000K - 90 CRI - White cone

(Photometric report #RAB01716)

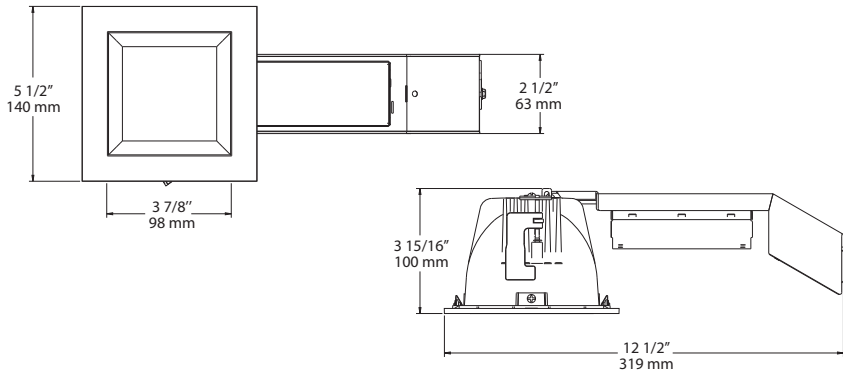


Dimensions

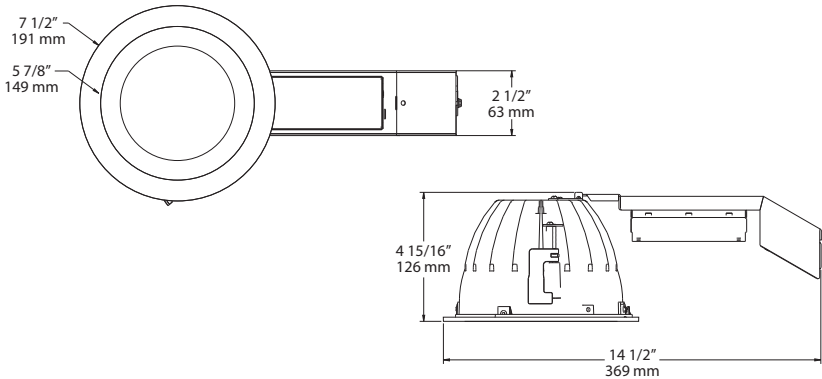
4" ROUND



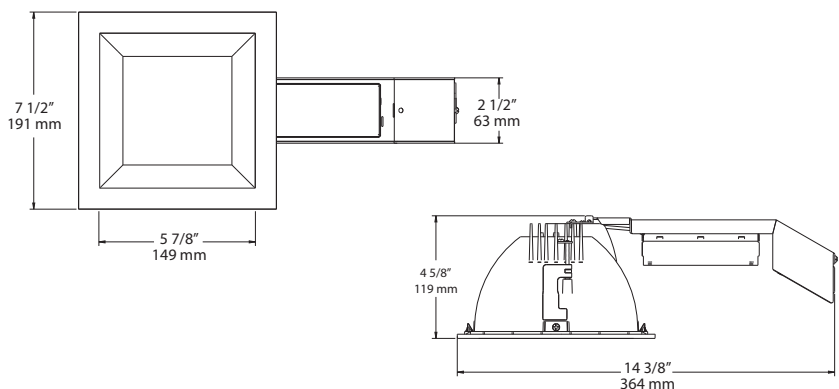
4" SQUARE



6" ROUND



6" SQUARE



Color Temperature

Color Consistency and Stability

RAB LED color consistency is reported in MacAdam ellipses and is shown below. RAB LED color stability is measured based on LM-80 testing and is available upon request.

Residential Warm



Nominal CCT: 2700K
Color Consistency: 3 Step

Warm



Nominal CCT: 3000K
Color Consistency: 3 Step

Warm/Neutral



Nominal CCT: 3500K
Color Consistency: 3 Step

Neutral



Nominal CCT: 4000K
Color Consistency: 3 Step

Dimmer Compatibility

LUTRON

Diva DVELV-303P
Diva DVCL-153P
Diva DV-600P
Feadra FAELV-500
Lumea LG-600P
Maestro MAELV-600
Skylark CT-103P
Skylark S-603PG
Skylark SELV-300P
Skylark S-600P
Toggler TGCL-153P
Toggler TG-600P

LEVITON

Decora 6161
IllumaTech IPI06-1LZ
IllumaTech IPE04
SureSlide 6631-2
SureSlide 6633-P
Trimatron 6683-IW
Vizia VPE06

COOPER

Devine DLC03P
Devine DAL06P
Skye SLC03P

LIGHTOLIER

Sunrise ZP260QEW

** This partial list contains a representative selection of known compatible dimming controls.*

Specifications

UL Listing: Suitable for wet locations covered ceiling

Driver: Constant Current, Class 2, 120-277V, 50/60Hz, 350mA, 0.15A, Power Factor 98.9%, THD ≤20%

Dimming: Universal dimming driver for 0-10V (at 120-277V), TRIAC or ELV (at 120V only).*

LED: Long-life, high-output LED module. Binned for natural white light to match incandescent and 3-step MacAdam Ellipse consistency.

Lifespan: 100,000-hour LED lifespan based on IES LM-80 results and TM-21 calculations

Lens: Microprismatic diffusion lens for smooth and even light distribution

Housing: Professional-grade, die-cast aluminum construction

Mounting: Ceiling clamps for easy installation

Finish: Chip and fade resistant polyester powder coat finish

Thermal Protection: Thermal protector included. Disables power if temperature exceeds safe operation levels.

Cut Out Dimensions:

4" Round: 5" diameter

4" Square: 5" x 5"

6" Round: 7" diameter

6" Square: 7" x 7"

Green Technology: Mercury & UV free

* See dimmer compatibility list.

Catalog Number Matrix

Product Family	Housing	Shape	Wattage	Driver	Optics	Color Temp	CRI	Trim Cone Color	Trim Ring Color
RDLED				D					
	4 4" 6 6"	R Round S Square	12 12W (4") 20 20W (4"/6") 26 26W (6")	D Universal dimming	50 50° 80 80° W Wall washer	N 4000K YN 3500K Y 3000K YY 2700K	Blank 80 CRI HC 90 CRI	S Specular Silver M Matte Silver W White B Black	W White B Black S Silver