NOTES

Fixture Type:

Project:

Location:

Model Numbers:

DESCRIPTION

- Intervals Recessed 2″ Downlights offer specification-grade performance and features, in a completely modular and field-configurable system;
- Every light engine integrates with any of the trims, and every trim works with all of the ceiling application and housing options.

DELIVERED LUMENS	Up to 760Lm
WATTS	~ 13W
OPTICS Field-Changeable	22° / 27° / 32°
TRIM OPTIONS	Round Bevel Square Bevel

COLOR TEMPERATURE

3000K 1800K

Min. 95CRI

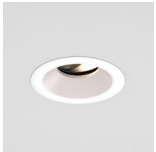
AVAILABLE TRIM FINISHES

Satin Black

Satin Aluminium

Satin White

CEILING APPLICATIONS



Flanged

Mud-In

Millwork

LIGHT ENGINE

- Up to 760 delivered lumens, 13W, field-replaceable;
- Cold forged aluminum with anodized champagne finish provides a lightweight heat sink with excellent thermal performance in a compact size;
- LTF chip-on-board LED with warm dimming from 3000K to 1800K, min. 95 CRI, and 3-Step color binning.

DRIVER

- Standard driver is field-replaceable and accessible from below the ceiling;
- 120/277VAC input;
- 1% dimming with forward/reverse phase (at 120VAC) and 0-10V dimming controls;
- Multiple drivers with additional dimming protocols available.

OPTICS

- Field-changeable TIR optics with a smooth beam, no softening lens required;
- Available in narrow spot (12º), medium spot (27º), and wide spot (33º) distributions;
- Up to 2 optical accessories can be used without any extra holder, to further refine lighting effects.

TRIMS

- Die cast aluminum construction for strength and durability;
- Up to 40 degrees of continuously adjustable tilt with no center beam clipping, controlled by a drive screw for precise positioning (reduced tilt range in ceiling thicknesses >1″);
- Fully adjustable rotational aiming, with locking screw;
- Patent pending sliding shade eliminates line-of-sight into the ceiling cavity or housing, regardless of tilt angle;
- Trim cover provides a beveled appearance in the desired finish, secured with ball catches for easy removal for aiming adjustment;
- Round adjustable trims feature stainless steel spring wings for tool-free installation into any position and easy twist-out removal for in-field servicing;
- Square adjustable trims feature swing-out screw clamp mounting for precise alignment;
- Suitable for ceiling thicknesses from 0.5″-1.5″;
- Delivered lumens are maintained through the full range of ceiling thicknesses;
- Available in powder coated satin white and satin black, and painted satin aluminum finishes.

CEILING APPLICATIONS

- Available in flanged, flangeless mud-in, and flangeless millwork, all in die cast aluminum;
- Flanged ceiling application features a tapered Feather Edge profile for a minimal appearance and provides a universal solution for all ceiling types. Available in trim-coordinating finishes of satin black, satin aluminum, and field-paintable satin white;
- Flangeless mud-in ceiling application securely attaches to the housing, providing a flush and seamless appearance in gypsum and plaster ceilings with no warping or cracking. Available in field-paintable satin white finish;
- Flangeless millwork ceiling application provides a flangeless appearance in wood or stone ceilings. Available in field-paintable satin white finish.

HOUSINGS/INSTALLATION

- Patent pending two-part junction box and driver housing is included for remodel and new construction installations and allows for easy servicing and inspection from below the ceiling;
- Junction box has two ½″ trade size knockouts and is rated for through-wiring of 12AWG conductors;
- New Construction Pan and IC Housing feature a patent pending field-changeable adapter door, allowing the same pan or housing to be converted to a different size (2″, 3″, or 4″) or shape (round or square) in the field, up until the ceiling is installed;
- Square adapter doors feature a reject collar that is adjustable 90 degrees and has gunsight notches for precise alignment;
- New Construction Pan and IC Housing include adjustable hanger bars for installation to wood joists or T-grid suspended ceilings;
- Adjustable height butterfly brackets are available for mounting with the available C-channel, the included adjustable hanger bars, EMT, or furring strip.

RATINGS/CERTIFICATIONS

- ETL listed to US and Canadian standards (UL1598) for damp locations;
- Meets CA Title 24 Part 6 JA8 High Efficacy LED and Chicago plenum requirements when used with standard driver and IC housing;
- 5 year limited warranty (see website for terms);
- Emergency Use: 35W High Efficiency Invertor with integrated battery backup and test switch available.

SONNEMAN – A WAY OF LIGHT | 20 North Avenue Larchmont, NY 10538 | P. 914.834.3600 | csr@sonnemanawayoflight.com | www.sonnemanlight.com

HOW TO ORDER

Build your item numbers for the rough-in section (includes housing and driver) and the finishing section (includes LED light engine and trim), plus any accessories ordered separately.

MADE-TO-ORDER PROGRAM ORDERING INFORMATION

ROUGH-IN SECTION ITEM NUMBER (Specify from left to right, filling in each box, e.g. 25RN2RICCPSTANFWD00V1)

25RN2					**WD**			**V1**
Family	**Aperture Shape**	**Mounting**	**Driver**	**Driver Location**	**Light Source/Power**	**Butterfly Brackets**	**Flangeless Mud-In**	**Version**
25RN2 Intervals Recessed Rough-In Section	**R** Round **S** Square	**ICCP** New Construction IC Housing, Chicago Plenum **NCPA** New Construction Pan **RMDL** Remodel	**STAN** ERP, 120/277V, Forward Phase, Reverse Phase, and 0-10V Dimming to 1% **PEQ0** Lutron Hi-lume Premier, 120/277V, EcoSystem Dimming to 0.1% with Soft-on and Fade-to-Black **DPOE** (1,2) Power Over Ethernet	**F** Fixture **R*** Remote	**WD** Warm Dimming (13W)	**0** No **1** (3) Yes (Included)	**0** No **1** (3) Yes (Included)	**V1** Version 1

*Only necessary if the driver will be physically remoted from the luminaire.

FINISHING SECTION ITEM NUMBER (Specify from left to right, filling in each box, e.g. 25FN2RADSTSW3018NSCFSWV1HEX)

25FN2		**AD**	**ST**		**3018**				**V1**		
Family	**Aperture Shape**	**Trim Style**	**Regress**	**Trim Finish**	**CCT**	**Optic**	**Ceiling Application**	**Ceiling Application Finish**	**Version**	**Optical Accessories** (blank if none; up to two options)	
25FN2 Intervals Recessed Finishing Section	**R** Round **S** Square	**AD** Adjustable	**ST** Standard	**SW** (4) ○ Satin White **SK** ● Satin Black **SA** (4) ● Satin Aluminum	**3018** 3000K - 1800K	**NS** 22° Narrow Spot **MS** 27° Medium Spot **WS** 32° Wide Spot	**CF** Flanged **MW** Flangeless Millwork **NA** (5,6) Flangeless Mud-In	**SW** (7) ○ Satin White **SK** ● Satin Black **SA** ● Satin Aluminum	**V1** Version 1	**HEX** Honeycomb Louver *(If second accessory is not specified, will include Clear Glass Lens)* **LIN** Linear Spread Lens **SOL** Microprism Lens **CLR** Clear Glass Lens	

(1) Requires Driver Location R
(2) Special order, contact factory; requires enclosure provided by others
(3) Requires Mounting ICCP or NCPA
(4) Includes Satin Black interior
(5) Requires Rough-In Section Mounting ICCP or NCPA. Select Flangeless Mud-in: 1 in the rough-in section table, or order separately from the accessories table.
(6) Requires Ceiling Application Finish SW
(7) Field-paintable

ACCESSORIES ORDERING INFORMATION

ACCESSORIES ITEM NUMBERS (e.g. 25ZCCH27)

25Z		
Family	**Style**	**Size/Finish (if applicable)**
25Z Intervals Recessed Accessories	**BTF** Butterfly Bracket Set (set of 2) **CCH** C-Channel (set of 2, requires butterfly brackets) **LWP** 20′ Luminaire Whip for remote driver **RGP02** 2″ Round Goof Plate **SGP02** 2″ Square Goof Plate **HEX02** 2″ Honeycomb Louver **LIN02** 2″ Linear Spread Lens **SOL02** 2″ Microprism Lens **CLR02** 2″ Clear Glass Lens **IIS35HE** Iota 35W High Efficiency Inverter	**27** 27″ C-Channel Set **52** 52″ C-Channel Set **SW** Satin White Goof Plate **SK** Satin Black Goof Plate **SA** Satin Aluminum Goof Plate

ADDITIONAL OPTICS

OPTICS (e.g. 25O2NS)

25O2	
Family	**Beam Angle**
25O2 Intervals Recessed Optic	**NS** 22º Narrow Spot **MS** 27º Medium Spot **WS** 32º Wide Spot

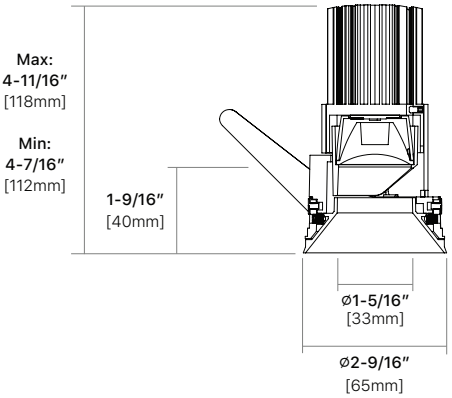
ADDITIONAL CEILING APPLICATIONS

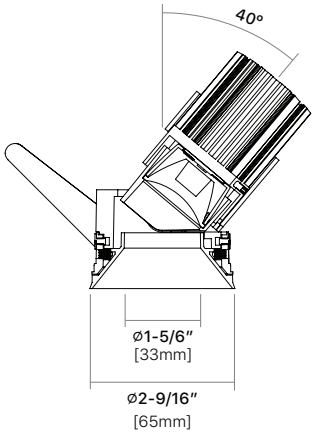
CEILING APPLICATIONS (e.g. 25F2RFMSW)

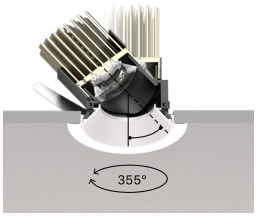
25F2			
Family	**Aperture Shape**	**Style**	**Finish**
25F2 Intervals Recessed Ceiling Application	**R** Round **S** Square	**CF** Ceiling Flange **FM** Mud-In **MW** Millwork	**SW** ○ Satin White **SK** ● Satin Black (Ceiling Flange only) **SA** Satin Aluminum (Ceiling Flange only)

DIMENSIONS

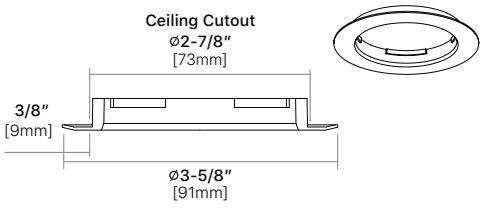
Round Adjustable Trim



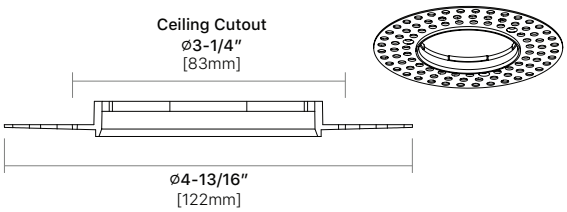




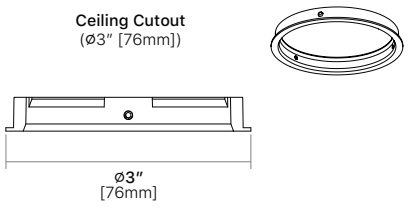
Round Ceiling Flange



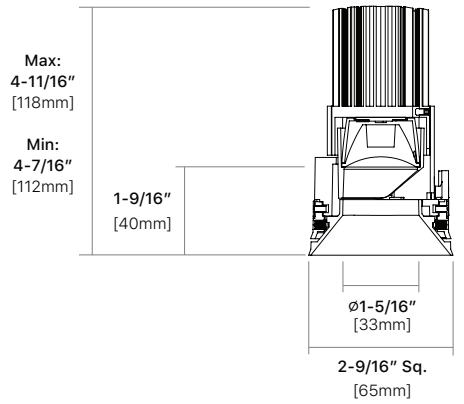
Round Flangeless Mud-in Plate

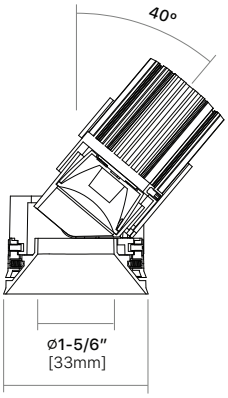


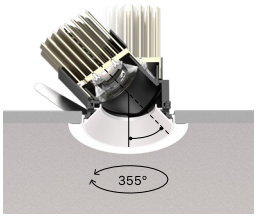
Round Flangeless Millwork Collar



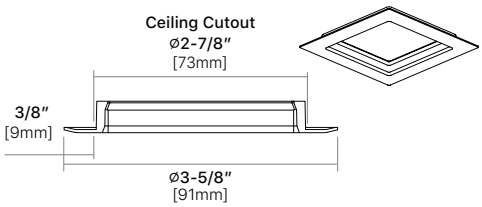
Square Adjustable Trim



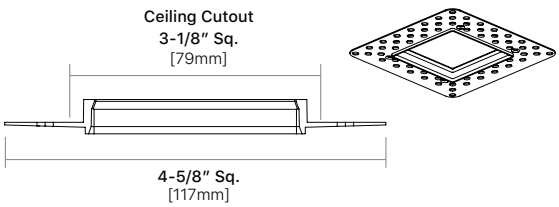




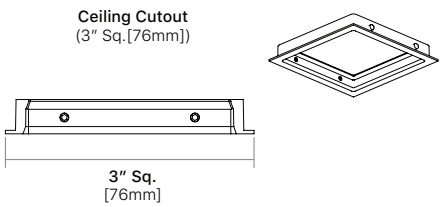
Square Ceiling Flange



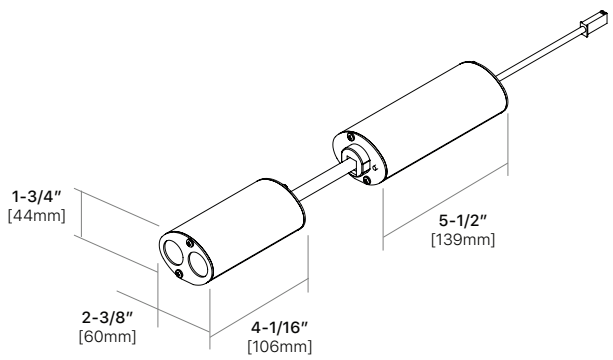
Square Flangeless Mud-in Plate



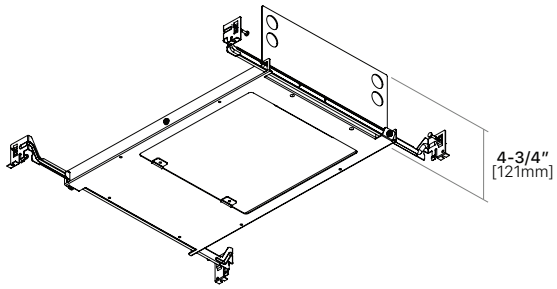
Square Flangeless Millwork Collar



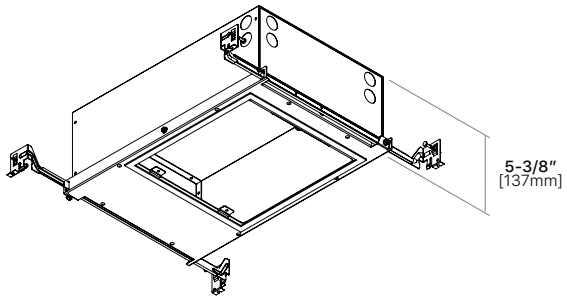
Driver Housing



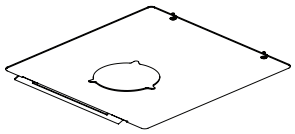
New Constuction Pan

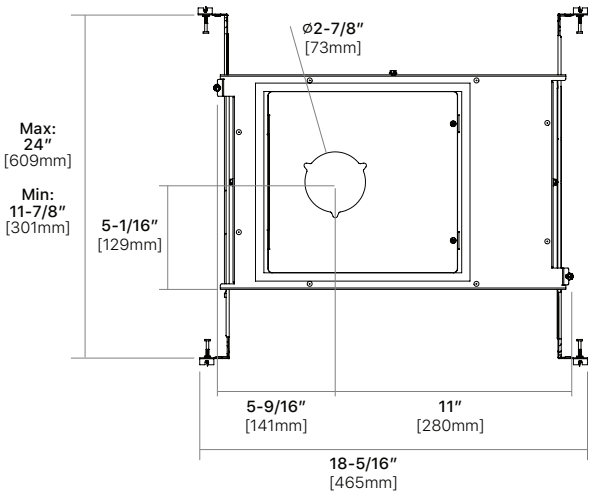


IC Housing

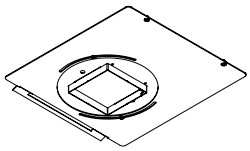


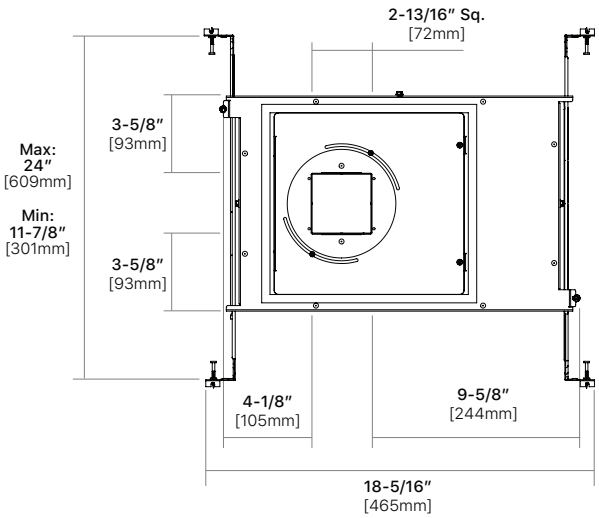
IC Housing with 2″ Round Adapter Door





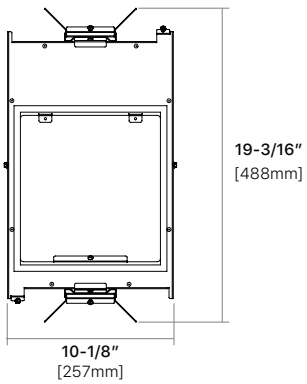
IC Housing with 2″ Square Adapter Door



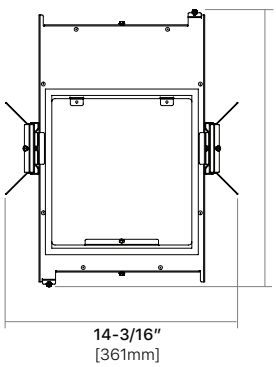


IC Housing with Adjustable Butterfly Brackets

Front and Back Application

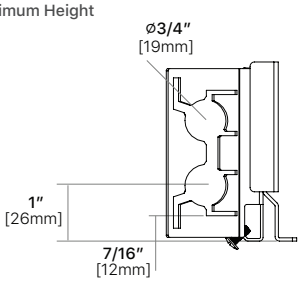


Side Application

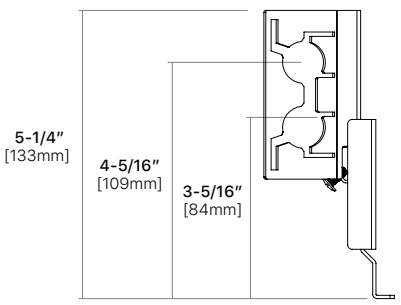


Adjustable Butterfly Brackets

Minimum Height



Maximum Height

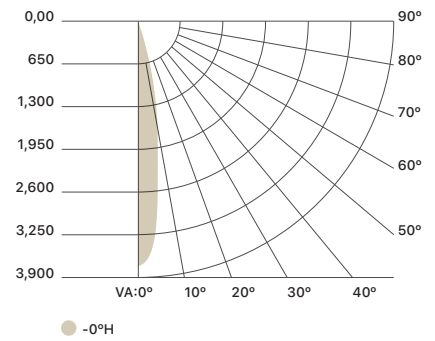


INDOOR PHOTOMETRIC REPORT

2″ RECESSED DOWNLIGHT NARROW SPOT 22°

Description: 2 inch Round Adjustable Trim Warm Diming Narrow Spot **| Lamp Output:** 1 lamp, rated Lumens/lamp: 680.6
Input Wattage: 13.2884 **Max Cd:** 3,805.7at horizontal: 45º, Vertical: 4º **| Spacing Criterion:** @ 0 = 0.44/ @ 90 = 0.37 | **High Output**

POLAR CANDELA



ILLUMINANCE AT A DISTANCE

Height (ft)	Center Beam Footcandle	Beam Spread (ft) Horizontal	Beam Spread (ft) Vertical	Field Spread (ft) Horizontal	Field Spread (ft) Vertical
1.00	3,601.17 LUX	0.4	0.4	0.8	0.7
2.00	900.29 LUX	0.8	0.8	1.5	1.5
3.00	400.13 LUX	1.2	1.1	2.3	2.2
4.00	225.07 LUX	1.5	1.5	3.0	3.0
		Beam Angle		Field Angle	
		21.7°	21.7°	41.5°	40.9°

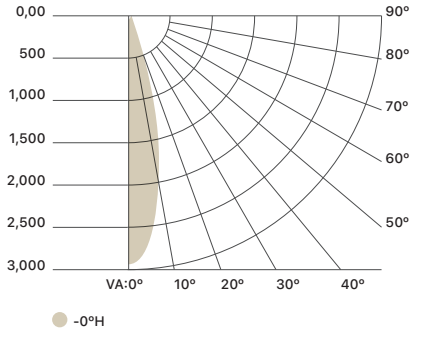
CANDELA TABLE - TYPE C

	0	45	90	135	180	225	270	315	360
0	3601	3601	3601	3601	3601	3601	3601	3601	3601
5	3564	3788	3573	3220	2808	2565	2845	3203	3564
15	1259	1727	1328	1004	716	549	660	861	1259
25	185	262	258	204	129	88	114	141	185
35	28	36	34	32	25	20	23	25	28
45	10	11	11	12	11	11	11	10	10
55	7	7	7	8	9	9	8	8	7
65	3	4	4	4	4	3	3	3	3
75	1	1	1	1	1	1	1	1	1
85	0	0	0	0	0	0	0	0	0
90	0	0	0	0	0	0	0	0	0

2″ RECESSED DOWNLIGHT MEDIUM SPOT 27°

Description: 2 inch Round Adjustable Trim Warm Diming Wide Spot **| Lamp Output:** 1 lamp, rated Lumens/lamp: 705.4
Input Wattage: 13.3858 **Max Cd:** 2,909.5 at horizontal: 45º, Vertical: 5º **| Spacing Criterion:** @ 0 = 0.52/ @ 90 = 0.47 | **High Output**

POLAR CANDELA



ILLUMINANCE AT A DISTANCE

Height (ft)	Center Beam Footcandle	Beam Spread (ft) Horizontal	Beam Spread (ft) Vertical	Field Spread (ft) Horizontal	Field Spread (ft) Vertical
8.00	41.92 fc	3.8	3.9	7.0	7.0
10.00	26.83 fc	4.8	4.8	8.7	8.8
12.00	18.63 fc	5.7	5.8	10.5	10.5
14.00	13.69 fc	6.7	6.8	12.2	12.3
16.00	10.48 fc	7.6	7.8	14.0	14.0
		Beam Angle		Field Angle	
		26.8°	27.2°	47.2°	17.3°

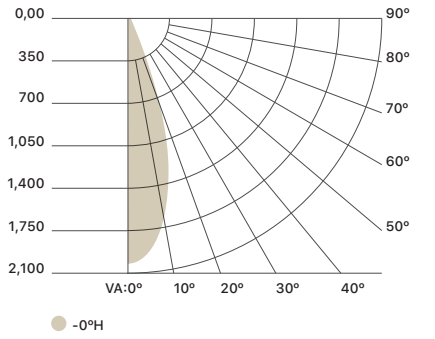
CANDELA TABLE - TYPE C

	0	45	90	135	180	225	270	315	360
0	2683	2683	2683	2683	2683	2683	2683	2683	2683
5	2639	2910	2857	2637	2324	2067	2085	2308	2639
15	1411	2048	1932	1387	817	533	557	821	1411
25	286	578	501	266	133	71	75	130	286
35	25	57	56	28	18	15	15	18	25
45	9	11	12	11	9	8	8	8	9
55	5	6	6	6	6	6	6	5	5
65	3	4	4	4	3	2	2	2	3
75	1	1	1	1	1	1	0	0	1
85	0	0	0	0	0	0	0	0	0
90	0	0	0	0	0	0	0	0	0

2″ RECESSED DOWNLIGHT WIDE SPOT 32°

Description: 2 inch Round Adjustable Trim Warm Diming Medium Spot **| Lamp Output:** 1 lamp, rated Lumens/lamp: 623.7
Input Wattage: 13.3703 **Max Cd:** 2,078.3 at horizontal: 90º, Vertical: 4º **| Spacing Criterion:** @ 0 = 0.48/ @ 90 = 0.54 | **High Output**

POLAR CANDELA



ILLUMINANCE AT A DISTANCE

Height (ft)	Center Beam Footcandle	Beam Spread (ft) Horizontal	Beam Spread (ft) Vertical	Field Spread (ft) Horizontal	Field Spread (ft) Vertical
8.00	30.85 fc	4.5	4.6	7.3	7.6
10.00	19.74 fc	5.6	5.7	9.1	9.5
12.00	13.71 fc	6.7	6.8	11.0	11.4
14.00	10.07 fc	7.8	8.0	12.8	13.3
16.00	7.71 fc	9.0	9.1	14.6	15.2
		Beam Angle		Field Angle	
		31.3°	31.8°	49.2°	50.8°

CANDELA TABLE - TYPE C

	0	45	90	135	180	225	270	315	360
0	1974	1974	1974	1974	1974	1974	1974	1974	1974
5	1810	1998	2077	2058	1938	1747	1669	1678	1810
15	898	1376	1582	1551	1217	752	586	633	898
25	261	232	236	248	301	329	302	293	261
35	30	48	56	53	39	24	20	21	30
45	10	13	13	11	10	9	9	8	10
55	7	7	6	6	6	5	5	6	6
65	3	5	4	4	3	2	2	2	3
75	1	1	1	1	1	1	1	9	1
85	0	0	0	0	0	0	0	0	0
90	0	0	0	0	0	0	0	0	0