

PROJECT: _____
 TYPE: _____



3" SQUARE FLANGED

NON-IC & IC NEW CONSTRUCTION / REMODEL

DIM TO WARM

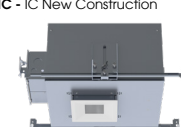
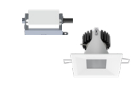
Dimming from 3000K to 1600K, Spectrum's Infinium Dim To Warm series follows in the footsteps of older halogen lamps which turned warmer in color when dimmed.



NOMINAL LUMENS / WATTAGE DATA				
PART NUMBER	CCT RANGE	DELIVERED LUMENS ¹	SYSTEM WATTS	LPW
IF03SMF 007	27K-16K	353	9.3	38
IF03SMF 010	28K-16K	456	11.3	40
IF03SMF 015	30K-16K	744	17.2	43
IF03SMF 020	30K-16K	930	21.7	43

¹ Nominal Delivered Lumens at DD1 020 DL FL GP MW

AVAILABLE HOUSING TYPES

IF03SMF NC - New Construction 	IF03SMF IC - IC New Construction 	IF03SMF RT - Remodel Construction 
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HOUSING						HOUSING OPTIONS							
SERIES	TYPE	EMITTER	CRI/CCT	LUMENS	OPTIONS	DIMMING		MOUNTING		BATTERY			
IF03SMF	NC	New Construction	DW	DIM TO WARM		PR	1.25" Ceiling Extension	D1	1% 0-10V	1 120V 2 277V	NC/IC		
	IC	IC New Construction		DD1	30-16K						007 353 Lm	B1	Expandable Bar Hangers
	RT	Remodel Construction			Dim to Warm			010 456 Lm					
								015 744 Lm					
					020 930 Lm								
				Nominal Delivered Lumens at DD1 020 DL FL GP MW				D3	1% ELV/MLV Phase-Cut (120V)	1 120V	RT		
											ER		7W Remote Battery Available in All Types
											B0		No Bar Hangers

AVAILABLE TRIM / MODULE TYPES



TRIM OPTIONS								SEPARATE ADDITIONAL ACCESSORIES						
TRIM TYPE	BEAM ¹	LENS		FINISH		OPTION								
DL	Downlight	SP	Spot (21°)	GN	No Lens Not Available in Wet Location	MW	Matte White	MF	Matching Flange Default Selection with PH Trim Type	WL	Wet Location Requires GP or GC Lens	GOOF RING		
PH	Pinhole Downlight	NF	Narrow Flood (28°)	GP	Solite™ Micro Prism Lens	MB	Matte Black	WF	White Flange For Use with Non-White Trim Finish			GRIF03S	MW	Matte White
		FL	Flood (38°)	GC	Clear Glass Lens	PT	Platinum Silver						MB	Matte Black
		WF	Wide Flood (54°)			CC	Custom Color						PT	Platinum Silver
AA	Adjustable Accent	NF	Narrow Flood (29°)										CC	Custom Color
		FL	Flood (38°)										BAR HANGERS	
		WF	Wide Flood (42°)										B2	27" Solid Bar Hangers
WW	Wall Wash	WF	Wide Flood	LW	Wall Wash Lens								B4	24" C-Channel Bar Hangers

¹ Nominal Beam Angles Shown

EXAMPLE: IF03SMFNCDWDD1007/D12B1/DLNFGCMWFWL

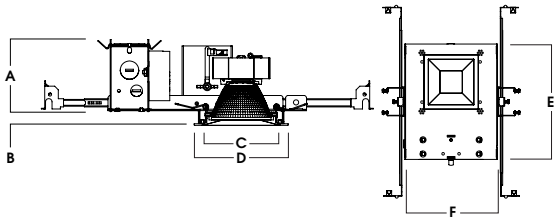
Dimensions and values shown are nominal. Spectrum Lighting continually works to improve products and reserves the right to make changes which may alter the performance or appearance of products.



HOUSING DIMENSIONS

IF03SMF NC - NEW CONSTRUCTION

Non-IC rated, thermally protected frame-in kit for new construction. Non-IC designation requires insulation must be minimum of 3" from housing.



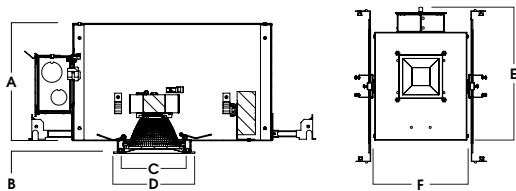
A	B	C	D	E	F
3.4	.625	3.8	4.5	9.5	7.6
86.4 mm	15.9 mm	96.5 mm	114.3 mm	241.3 mm	193.0 mm

Fixture Weight: 4.0 lbs

Ceiling Cutout: 4.1" Sq

IF03SMF IC - IC NEW CONSTRUCTION

IC rated frame-in kit for new construction with direct insulation contact and CCEA (Chicago Plenum) compatibility.



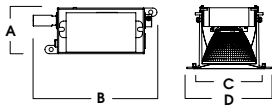
A	B	C	D	E	F
6.5	.625	3.8	4.5	13.2	9.5
165.1 mm	15.9 mm	96.5 mm	114.3 mm	335.3 mm	241.3 mm

Fixture Weight: 5.0 lbs

Ceiling Cutout: 4.1" Sq

IF03SMF RT - REMODEL CONSTRUCTION

Non-IC rated frame-in kit for existing construction. Non-IC designation requires insulation must be minimum of 3" from housing.



A	B	C	D
2.8	7.5	3.8	4.5
71.1 mm	190.5 mm	96.5 mm	114.3 mm

Fixture Weight: 2.0 lbs

Ceiling Cutout: 4" Sq

FEATURES

APPLICATION

Versatile shallow plenum 3" square recessed LED luminaire features downlight, adjustable accent, wall wash and pinhole downlight trim options with new construction, insulated ceiling and retrofit housings.

FEATURES

Two-stage optical system for smooth low glare light distribution. Zhaga International Standard LED module for ease of maintenance and replacement. Shallow plenum design. Tool-less LED module, driver, and J-Box access. Multi-Bar mounting brackets. Expandable bar hangers with horizontal range of 14.2"-26., and vertical adjustment of 1.75" for Non-IC housing and 2.325" for IC housings. Post-lock trim retention springs. Integral 0.625" collar, works with up to 1" ceiling. For thicker ceilings consult factory.

TRIM FINISH

A variety of architectural powdercoat finishes are available. Trims available with and without lens. Specify trim finish and flange finish.

ELECTRONICS

Dim to Warm offering a familiar dimming experience to traditional incandescent lamps (3000K-1600K). All options feature 3-step MacAdam Ellipse binning and 95 CRI 0-10V or phase-cut dimming to 1%, standard.

CONSTRUCTION

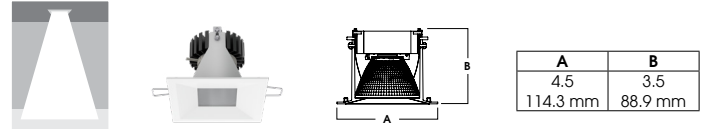
Housing/frame constructed of #20 ga. galvanized steel to resist corrosion. Self-flanged one piece die-cast aluminum trim is finished to specification. Passive machined aluminum heatsink.

CODE COMPLIANCE

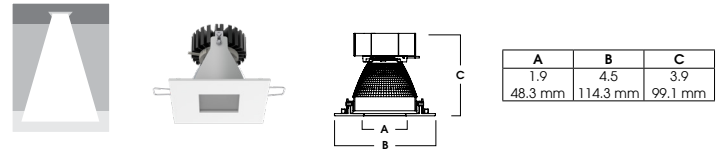
BAA Compliant. ETL certified to meet US and Canadian standards. Suitable for dry or damp locations. Optional Wet Location. Manufactured and tested to UL standards No. 1598/8750. JA8 pending. City of Chicago Environmental Air (CCEA), and Insulated Ceiling (IC) options available.

TRIM / MODULE DATA

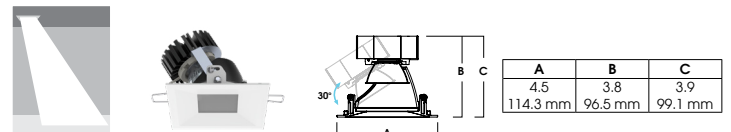
DL - DOWNLIGHT MODULE



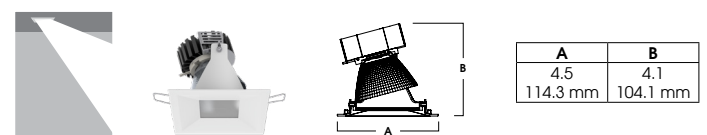
PH - PINHOLE DOWNLIGHT MODULE



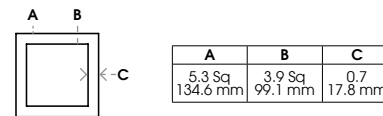
AA - ADJUSTABLE MODULE (30°)



WW - WALL WASH MODULE



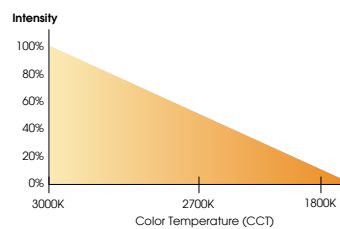
GRIF03S - 3" SQUARE GOOF RING



DIMMING BEHAVIOR

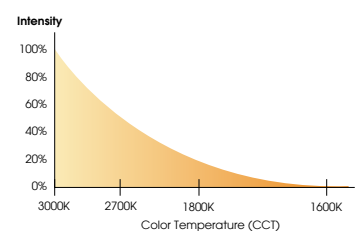
PHASE DIMMING

(LINEAR)



0-10V DIMMING

(LOGARITHMIC)



PHOTOMETRIC DATA - 3" SQUARE

IF03SMx xx DWDD1020 DLSPGPMW

CANDLEPOWER CURVE TEST SP-00944_1	INTENSITY CANDELA 0° AZIMUTH	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE INITIAL FOOTCANDLES BASED ON IES BEAM ANGLE				MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES INITIAL FOOTCANDLES AND WATTS PER SQUARE FOOT										
			Mounting Height AFF	FC at Center on Floor	Beam Diameter	FC at Beam Edge	Ceiling Height	Fixture Spacing	RCR 4		RCR 6						
	0.00°																
	0.00°	3,691	0° - 10°	253	29%	5.5'	122 fc	2.1'	58 fc	9'	2'	199	5.26	161	4.66		
	5.00°	3,051	0° - 20°	569	65%	6.5'	87 fc	2.4'	41 fc	12'	2'	209	5.54	193	5.58		
	10.00°	1,968	0° - 30°	752	86%	7.5'	66 fc	2.8'	31 fc	16'	4'	46	1.22	54	1.56		
	15.00°	1,182	0° - 40°	803	92%	8.5'	51 fc	3.2'	24 fc	Delivered Illuminance Rating: (DIR)		38 FC per W/Sq. Ft.		35 FC per W/Sq. Ft.			
	20.00°	682	0° - 60°	842	97%	10.0'	37 fc	3.7'	18 fc	Recessed Mounting Square rooms used for multiple units: - RCR 4: Length & Width = Ceiling Ht. -2.5' x 2.50 - RCR 6: Length & Width = Ceiling Ht. -2.5' x 1.66 + Average Footcandles at 2.5' Above Floor							
	30.00°	134	0° - 80°	868	100%	12.0'	26 fc	4.5'	12 fc								
	40.00°	32	0° - 90°	871	100%	14.0'	19 fc	5.2'	9 fc								
	50.00°	23	Total	871	100%	16.0'	14 fc	6.0'	7 fc								
	60.00°	18															
	70.00°	15															
80.00°	6																
90.00°	1																

Delivered Lumens: 871
Luminaire Watts: 21.7
LER: 40.14

CP at 0deg (Nadir): 3,691
CRI: 95

Beam Angle: 21.18
Spacing Ratio: 0.35

Lumen Multiplier: 7L x 0.38, 10L x 0.49, 15L x 0.8
CCT Multiplier: N/A, dim to warm emitter

IF03SMx xx DWDD1020 DLNFGPMW

CANDLEPOWER CURVE TEST SP-00944_2	INTENSITY CANDELA 0° AZIMUTH	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE INITIAL FOOTCANDLES BASED ON IES BEAM ANGLE				MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES INITIAL FOOTCANDLES AND WATTS PER SQUARE FOOT										
			Mounting Height AFF	FC at Center on Floor	Beam Diameter	FC at Beam Edge	Ceiling Height	Fixture Spacing	RCR 3		RCR 5						
	0.00°																
	0.00°	2,739	0° - 10°	216	24%	5.5'	91 fc	2.7'	41 fc	9'	2'	230	5.60	171	4.62		
	5.00°	2,491	0° - 20°	554	61%	6.5'	65 fc	3.2'	30 fc	12'	4'	57	1.39	56	1.50		
	10.00°	1,854	0° - 30°	770	85%	7.5'	49 fc	3.7'	22 fc	16'	6'	22	0.53	18	0.48		
	15.00°	1,233	0° - 40°	837	92%	8.5'	38 fc	4.2'	17 fc	Delivered Illuminance Rating: (DIR)		41 FC per W/Sq. Ft.		37 FC per W/Sq. Ft.			
	20.00°	760	0° - 60°	879	97%	10.0'	27 fc	4.9'	13 fc	Recessed Mounting Square rooms used for multiple units: - RCR 3: Length & Width = Ceiling Ht. -2.5' x 3.33 - RCR 5: Length & Width = Ceiling Ht. -2.5' x 2.00 + Average Footcandles at 2.5' Above Floor							
	30.00°	152	0° - 80°	905	100%	12.0'	19 fc	5.9'	9 fc								
	40.00°	41	0° - 90°	908	100%	14.0'	14 fc	6.9'	6 fc								
	50.00°	23	Total	908	100%	16.0'	11 fc	7.9'	5 fc								
	60.00°	18															
	70.00°	14															
80.00°	5																
90.00°	2																

Delivered Lumens: 908
Luminaire Watts: 21.7
LER: 41.84

CP at 0deg (Nadir): 2,739
CRI: 95

Beam Angle: 27.78
Spacing Ratio: 0.45

Lumen Multiplier: 7L x 0.38, 10L x 0.49, 15L x 0.8
CCT Multiplier: N/A, dim to warm emitter

IF03SMx xx DWDD1020 DLFLGPMW

CANDLEPOWER CURVE TEST SP-00944_3	INTENSITY CANDELA 0° AZIMUTH	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE INITIAL FOOTCANDLES BASED ON IES BEAM ANGLE				MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES INITIAL FOOTCANDLES AND WATTS PER SQUARE FOOT										
			Mounting Height AFF	FC at Center on Floor	Beam Diameter	FC at Beam Edge	Ceiling Height	Fixture Spacing	RCR 3		RCR 5						
	0.00°																
	0.00°	1,922	0° - 10°	170	18%	5.5'	64 fc	3.8'	27 fc	9'	4'	48	1.16	43	1.16		
	5.00°	1,842	0° - 20°	518	56%	6.5'	45 fc	4.5'	19 fc	12'	4'	58	1.39	56	1.50		
	10.00°	1,609	0° - 30°	777	84%	7.5'	34 fc	5.2'	14 fc	16'	6'	22	0.53	18	0.48		
	15.00°	1,267	0° - 40°	858	92%	8.5'	27 fc	5.9'	11 fc	Delivered Illuminance Rating: (DIR)		42 FC per W/Sq. Ft.		37 FC per W/Sq. Ft.			
	20.00°	887	0° - 60°	903	97%	10.0'	19 fc	6.9'	8 fc	Recessed Mounting Square rooms used for multiple units: - RCR 3: Length & Width = Ceiling Ht. -2.5' x 3.33 - RCR 5: Length & Width = Ceiling Ht. -2.5' x 2.00 + Average Footcandles at 2.5' Above Floor							
	30.00°	197	0° - 80°	927	100%	12.0'	13 fc	8.3'	6 fc								
	40.00°	48	0° - 90°	930	100%	14.0'	10 fc	9.6'	4 fc								
	50.00°	26	Total	930	100%	16.0'	8 fc	11.0'	3 fc								
	60.00°	18															
	70.00°	14															
80.00°	6																
90.00°	1																

Delivered Lumens: 930
Luminaire Watts: 21.7
LER: 42.86

CP at 0deg (Nadir): 1,922
CRI: 95

Beam Angle: 38.01
Spacing Ratio: 0.61

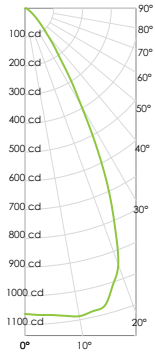
Lumen Multiplier: 7L x 0.38, 10L x 0.49, 15L x 0.8
CCT Multiplier: N/A, dim to warm emitter



PHOTOMETRIC DATA - 3" SQUARE

IF03SMx xx DWDD1020 DLWFGPMW

CANDLEPOWER CURVE TEST SP-00944	INTENSITY CANDELA 0° AZIMUTH	ZONAL LUMENS		SINGLE UNIT: PERFORMANCE INITIAL FOOTCANDLES BASED ON IES BEAM ANGLE				MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES INITIAL FOOTCANDLES AND WATTS PER SQUARE FOOT						
		0° - 10°	104	10%	Mounting Height Aff	FC at Center on Floor	Beam Diameter	FC at Beam Edge	Ceiling Height	Fixture Spacing	RCR 2		RCR 4	
	0.00° 1,063	0° - 20°	402	40%	5.5'	35 fc	5.6'	12 fc	9'	4'	62	1.31	54	1.31
	5.00° 1,071	0° - 30°	735	73%	6.5'	25 fc	6.7'	9 fc	12'	6'	29	0.62	25	0.62
	10.00° 1,087	0° - 40°	897	89%	7.5'	19 fc	7.7'	7 fc	16'	10'	11	0.23	7	0.17
	15.00° 1,071	0° - 60°	985	98%	8.5'	15 fc	8.7'	5 fc	Delivered Illuminance Rating: (DIR)		47 FC per W/Sq. Ft.		41 FC per W/Sq. Ft.	
	20.00° 948	0° - 80°	1,004	100%	10.0'	11 fc	10.3'	4 fc	Recessed Mounting Square rooms used for multiple units: - RCR 2: Length & Width = Ceiling Ht. -2.5' x 5.00 - RCR 4: Length & Width = Ceiling Ht. -2.5' x 2.50 * Average Footcandles at 2.5' Above Floor					
	30.00° 391	0° - 90°	1,006	100%	12.0'	7 fc	12.3'	3 fc						
	40.00° 124	Total	1,006	100%	14.0'	5 fc	14.4'	2 fc						
	50.00° 47				16.0'	4 fc	16.4'	1 fc						
	60.00° 19													
	70.00° 9													
	80.00° 4													
	90.00° 1													



Delivered Lumens: 1,006
Luminaire Watts: 21.7
LER: 46.36

CP at 0deg (Nadir): 1,063
CR: 95

Beam Angle: 54.33
Spacing Ratio: 0.91

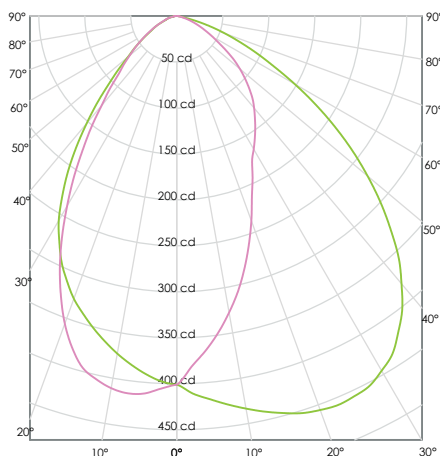
Lumen Multiplier: 7L x 0.38, 10L x 0.49, 15L x 0.8
CCT Multiplier: N/A, dim to warm emitter



PHOTOMETRIC DATA - 3" SQUARE WALL WASH

IF03SMx xx DWDD1020 WWWFLWMW

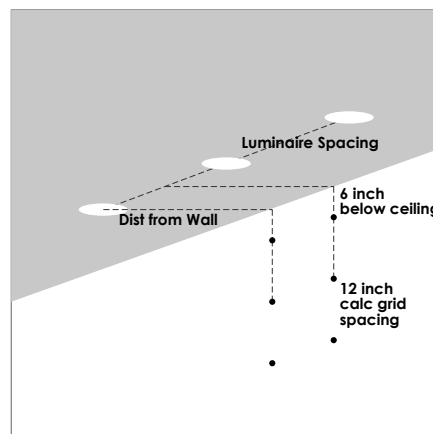
CANDLEPOWER CURVE TEST SP-00950	PERFORMANCE SUMMARY	REFERENCE DIAGRAM
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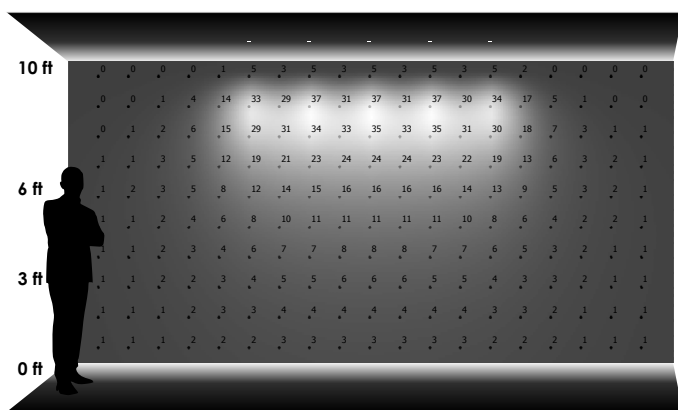
Delivered Lumens: 677
 Luminaire Watts: 21.5
 LER: 31.49

 CP at 0deg (Nadir): 401
 CRI: 95

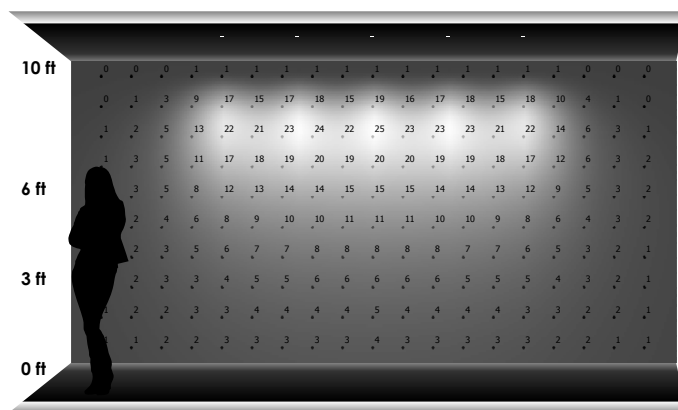
 Lumen Multiplier: 7L x 0.38, 10L x 0.49, 15L x 0.8
 CCT Multiplier: N/A, dim to warm emitter



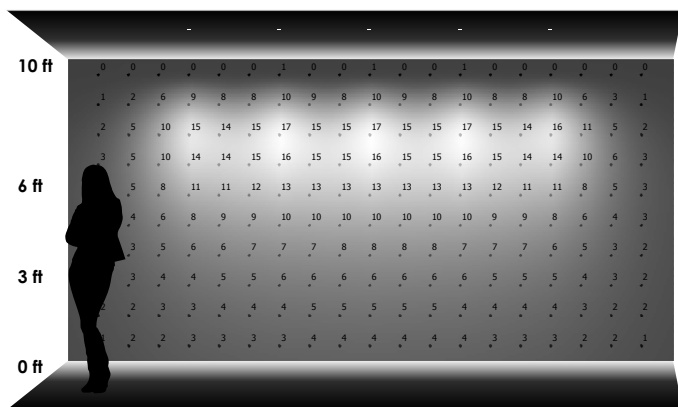
PERFORMANCE DATA - INITIAL ILLUMINATION (FOOTCANDLES) ON WALL - DIRECT LIGHT ONLY



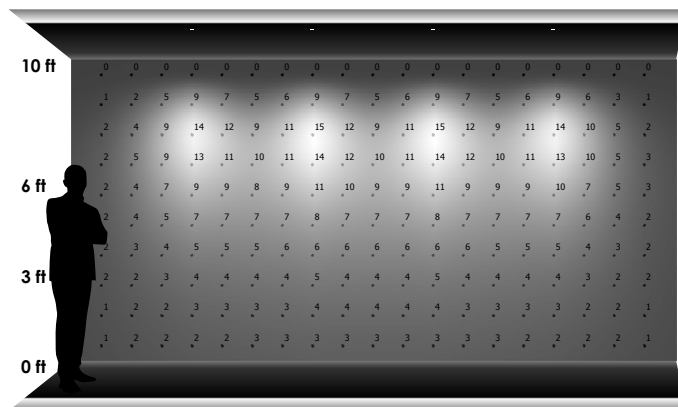
5 LUMINAIRES
 2' away from wall
 2' between luminaires



5 LUMINAIRES
 2'-6" away from wall
 2'-6" between luminaires



5 LUMINAIRES
 3' away from wall
 3' between luminaires



4 LUMINAIRES
 3' away from wall
 4' between luminaires

