Spectrum Lighting

PROJECT:

QUANTITY: TYPE:

SPEC TRAC

STR2

2" TRACK LUMINAIRE

Spectrum's 2" track series features machined aluminum body, integral driver, TIR (Total Internal Reflection) optics, variety of bezels, and anodized or textured powder coat color choices.

LUMENS AND WATTAGE CHART			
PART NUMBER	DELIVERED LUMENS	SYSTEM WATTS	LPW
STR2 835 07 xx xx RD2XF RB2BS xx xx	779	6.9	113
STR2 835 10 xx xx RD2XF RB2BS xx xx	1062	11.8	90
STR2 835 13 xx xx RD2XF RB2BS xx xx	1416	14.4	98

All Values Based on 3500K, 80CRI, XF Optic, BS Standard Bezel

PRODUCT SELECTOR GUIDE

SERIES	CRI / CCT	LUMENS[2]	DIMMING	ADAPTOR	FINISH		SERIES	OPTICS		SERIES	BEZEL TYPE	BEZEL FINISH		SERIES	OPTICAL EFFECT
STR2						+	RD2		+	RB2			+	RA2	
EXAMPLE															
STR2	835	10	DS2W1	TEK100	TB	+	RD2	SP	+	RB2	BK	TB	+	RA2	LS

SERIES	CRI / CCT	LUMENS[2]	DIMMING	ADAPTOR	BODY FINISH
STR2	80 CRI 822 2200K 827 2700K 830 3000K 835 3500K 840 4000K 90 CRI 927 2700K 930 3000K 935 3500K 940 4000K DIM TO WARM[1] 9DW 30-16K Dim to Warm 1 1000 Lm Only For 9DW	07 800 Lm 10 1050 Lm 13 1400 Lm 2 Nominal Delivered Lumens	E1 Non-Dimming Electronic Driver, 120V DS2W1 1% ELV/TRIAC Phase Cut Dimming, 120V D0101 1%, 0-10V Dimming, 120V E2 Non-Dimming Electronic Driver, 277V D0102 1% 0-10V Dimming, 277V	BET Basix 1 CIR/1 NEUT 120V TEK100 Global TEK 2 CIR/2 NEUT 120V OT2D 2 CIR 120V, 0-10V HTEK100 TEK 2 CIR/2 NEUT 277V HOT2D 2 CIR 277V, 0-10V	TW Textured White TB Textured Black MT Textured Silver BZ Textured Bronze CC Custom Color

BS Standard Bezel

BK Bezel with Knurl

BB Bias

BD Snoot / Deep Cutoff

BSA1 Acrylic .5"

BKA1 Acrylic .5" with Knurl

BW Bias Wall Wash

SERIES	OPTICS
RD2	STANDARD WHITE XS Extra Narrow Spot (13°) SP Spot (22°) FL Flood (33°) XF Extra Wide Flood (59°) WW[3] Wall Wash DIM TO WARM XS Extra Narrow Spot (19°) SP Spot (29°) FL Flood (35°) XF Extra Wide Flood (60°) WW[3] Wall Wash 3 WW Requires BW Bezel

SERIES	BEZEL STYLE	BEZEL FINISH
RB2	BS Standard Bezel BK Bezel with Knurl BB Bias BD Snoot / Deep Cutoff BW[4/5] Bias Wall Wash BSA1[5] Acrylic .5" BKA1[5] Acrylic .5" with Knurl 4 BW Requires WW Optic Option 5 BW, BSA1 and BKA1 Series Do Not Take Optical Effects	ASG Soft Glow, Anodized ARG Rose Gold, Anodized ABK Black, Anodized AGD Gold, Anodized TW Textured White TB Textured Black MT Textured Silver BZ Textured Bronze CC Custom Color

SERIES	OPTICAL EFFECT[6]
RA2	HL Hex Cell LS Diffusing Lens LL Linear Spread Lens LC Clear Lens 6 Max 2

STR2 2" TRACK LUMINAIRE

Spectrum Lighting

PRODUCT FEATURES

- High quality extruded aluminum housing with integral driver.
- Features 190° tilt and 335° rotation.
- Horizontal and vertical rotation have built in locking screw to lock rotation if desired.
- Standard white; 2 Step MacAdam Ellipse, 5 CCT's, from 2200K through 4000K, with CRI's up to 90, Delivered Lumen packages from 584 Lm to 1416 Lm.
- Exceptional efficacy reaching 108 LPW.
- Striation free beam patterns, Visual cutoff at 40° (to 10% of output) or better dependent upon bezel choice. TIR Optics are field changeable, without tools; available in 12° to 60° beam.
- TIR Optics are field changeable and available in beam distributions from 12° to 60°.
- TIR Optics can be paired with various accessories including hex cell, linear spread and diffusing or clear lenses.
- All bezels, except acrylics, feature anti-glare matte black finish and can accept up to 2 accessories, while wall wash has an anti-glare finish but cannot accept accessories.
- Diverse range of decorative bezel finishes including, anodized, knurled and acrylic accent.
- Bias and Wall Wash bezel rotate 360 degrees.
- Visible hardware finished to match fixture housing.
- 5-year warranty is standard. L90 > 67,000 hours.
- 90% recyclable materials.

STANDARD PRODUCT FINISHES

FIXTURE COLOR	ADAPTOR / TRACK COLOR
Matte White	Matte White
Matte Black	Matte Black
All Others	Matte Black
Custom Color	Contact Factory

BODY FINISH

TW Textured White
TB Textured Black
MT Textured Silver
BZ Textured Bronze
CC Custom Color

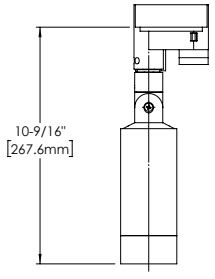
BEZEL FINISH

TW Textured White
TB Textured Black
MT Textured Silver
BZ Textured Bronze
ASG Soft Glow, Anodized
ARG Rose Gold, Anodized
ABK Black, Anodized
AGD Gold, Anodized
CC Custom Color

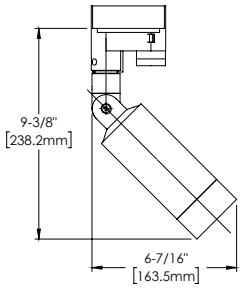
FIXTURE DIMENSIONS

Shown with BS bezel and TEK100 adaptor.

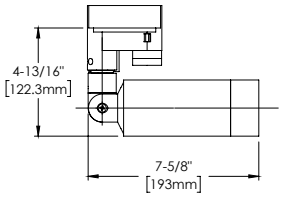
0° POSITION



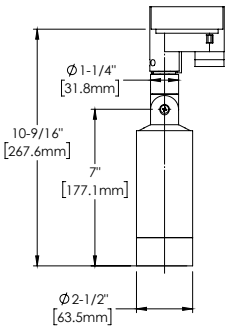
45° TILT



90° TILT



SIDE VIEW



ADAPTOR

BET
Basix 1 CIR/1 NEUT 120V

TEK100
Global TEK 2 CIR/2 NEUT 120V

OT2D
120V 2 Circuit 6 Conductor, 0-10V Dimmable

HTEK100
Global TEK 2 CIR/2 NEUT 277V

HOT2D
277V 2 Circuit 6 Conductor, 0-10V Dimmable

STR2 2" TRACK LUMINAIRE

Spectrum Lighting

OPTICS

XS - Extra Narrow Spot (13°)

SP - Spot (22°)

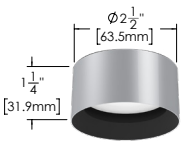
FL - Flood (33°)

XF - Extra Wide Flood (59°)

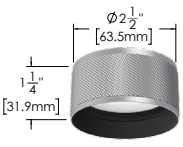
WW - Wall Wash

BEZEL STYLE

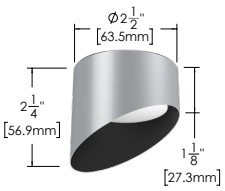
BS - Standard Bezel



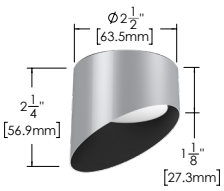
BK - Bezel with Knurl



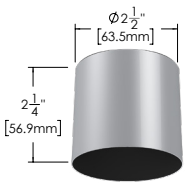
BB - Bias



BW - Bias Wall Wash

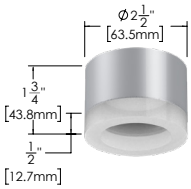


BD - Snoot / Deep Cutoff



ACRYLIC SIZES

BSA1 - Acrylic .5"



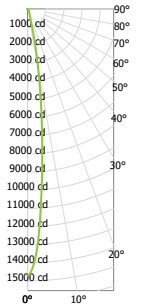
BKA1 - Acrylic .5" with Knurl

STR2 2" TRACK LUMINAIRE

Spectrum Lighting

STR2 835 13 xx xx RD2XS RB2BS xx xx

CANDLEPOWER CURVE
TEST SP-01569_2



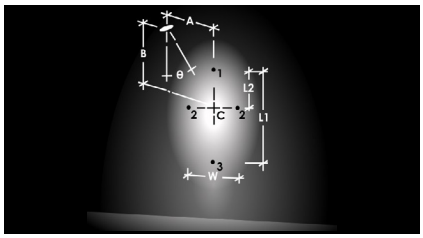
INTENSITY

	CP at 0°
0°	14705
5°	9168
15°	809
25°	222
35°	123
45°	58
55°	21
65°	4
75°	1
85°	1
90°	1

ZONAL LUMENS

0° - 10°	681	56%
0° - 20°	963	79%
0° - 30°	1067	87%
0° - 40°	1139	93%
0° - 60°	1203	99%
0° - 80°	1209	99%
0° - 90°	1211	99%

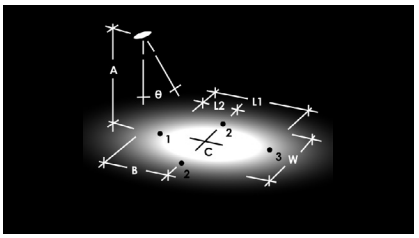
INITIAL FC ON VERTICAL PLANE
30° aiming angle



A	B	C	1	2	3	W	L1	L2
2'	3.5'	460 fc	1138 fc	383 fc	99 fc	1.8'	4.2'	1.3'
3'	5.2'	204 fc	506 fc	170 fc	44 fc	2.7'	6.3'	1.9'
4'	6.9'	115 fc	285 fc	96 fc	25 fc	3.6'	8.4'	2.6'
6'	10.4'	51 fc	126 fc	43 fc	11 fc	5.4'	12.6'	3.9'

Dimensions W, L1 and L2 based on beam angle

INITIAL FC ON HORIZONTAL PLANE
30° aiming angle



A	B	C	1	2	3	W	L1	L2
6'	3.5'	265 fc	355 fc	253 fc	163 fc	3.1'	3.6'	1.6'
8'	4.6'	149 fc	200 fc	142 fc	92 fc	4.1'	4.8'	2.1'
10'	5.8'	96 fc	128 fc	91 fc	59 fc	5.1'	6.0'	2.6'
12'	6.9'	66 fc	89 fc	63 fc	41 fc	6.2'	7.3'	3.2'

Dimensions W, L1 and L2 based on beam angle

Delivered Lumens: 1220
Luminaire Watts: 14.4
Efficacy: 84.72

CP at 0° (Nadir): 14705

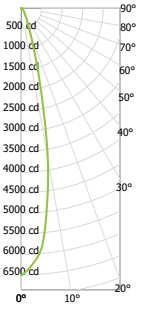
CRI: 80+

Beam Angle: 13°

Lumen Multiplier: 07L x .55, 10L x .75
CCT Multiplier: 822 x 0.75, 827 x 0.93, 830 x 1.0, 840 x 1.0
927 x 0.81, 930 x 0.81, 935 x 0.81, 940 x 0.87

STR2 835 13 xx xx RD2SP RB2BS xx xx

CANDLEPOWER CURVE
TEST SP-01570_2



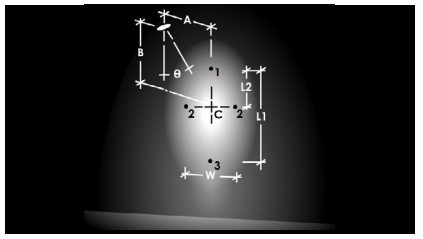
INTENSITY

	CP at 0°
0°	6506
5°	5824
15°	1584
25°	337
35°	140
45°	74
55°	31
65°	6
75°	2
85°	2
90°	1

ZONAL LUMENS

0° - 10°	481	38%
0° - 20°	932	73%
0° - 30°	1089	85%
0° - 40°	1174	92%
0° - 60°	1257	98%
0° - 80°	1265	99%
0° - 90°	1267	99%

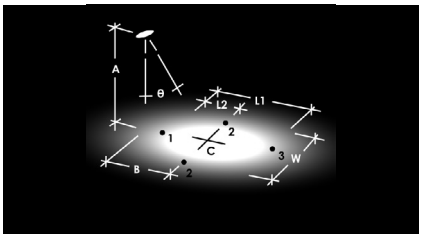
INITIAL FC ON VERTICAL PLANE
30° aiming angle



A	B	C	1	2	3	W	L1	L2
2'	3.5'	203 fc	793 fc	123 fc	5 fc	3.2'	12.5'	1.9'
3'	5.2'	90 fc	352 fc	55 fc	2 fc	4.8'	18.7'	2.8'
4'	6.9'	51 fc	198 fc	31 fc	1 fc	6.4'	25.0'	3.8'
6'	10.4'	23 fc	88 fc	14 fc	1 fc	9.6'	37.5'	5.7'

Dimensions W, L1 and L2 based on beam angle

INITIAL FC ON HORIZONTAL PLANE
30° aiming angle



A	B	C	1	2	3	W	L1	L2
6'	3.5'	117 fc	175 fc	101 fc	42 fc	5.6'	6.8'	2.6'
8'	4.6'	66 fc	99 fc	57 fc	24 fc	7.4'	9.1'	3.5'
10'	5.8'	42 fc	63 fc	36 fc	15 fc	9.3'	11.3'	4.4'
12'	6.9'	29 fc	44 fc	25 fc	11 fc	11.1'	13.6'	5.2'

Dimensions W, L1 and L2 based on beam angle

Delivered Lumens: 1276
Luminaire Watts: 14.4
Efficacy: 88.61

CP at 0° (Nadir): 6506

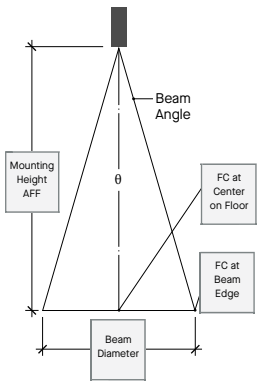
CRI: 80+

Beam Angle: 22°

Lumen Multiplier: 07L x .55, 10L x .75
CCT Multiplier: 822 x 0.75, 827 x 0.93, 830 x 1.0, 840 x 1.0
927 x 0.81, 930 x 0.81, 935 x 0.81, 940 x 0.87

HOW TO USE PERFORMANCE DATA

SINGLE UNIT



Cone of Light of a single, symmetrical beam luminaire. Direct initial illumination (FC) and Beam Angle diameter directly beneath fixture; shown at different distances from aperture to horizontal plane. Calculated using Inverse Square Law.

$FC_H = CP \times (\text{Cos } \theta) \div D^2$

Beam Diam. = ½ Beam Angle (Tan) x 2D

- CP — Candela at 0° (Nadir)
- Cos θ — Cosine of θ Angle
- D — Distance (Mounting Height AFF)
- FC_H — Footcandles, Horizontal
- Beam Angle — Cone of light to 50% max. CP
- Beam Diam. — Pattern of light at Beam Angle

INITIAL FC ON VERTICAL PLANE & INITIAL FC ON HORIZONTAL PLANE

INITIAL FC ON VERTICAL PLANE

- A — Horizontal distance from vertical plane to center of aperture
- B — Vertical distance from aperture to center of beam on vertical plane
- C — Vertical FC at center of beam on vertical plane
- 1 — Vertical FC at top edge of beam angle on vertical plane
- 2 — Vertical FC at left and right edge of beam angle on vertical plane
- 3 — Vertical FC at bottom edge of beam angle on vertical plane
- W — Width of beam angle (point 2 to point 2) on vertical plane
- L1 — Length of beam angle (point 1 to point 3) on vertical plane
- L2 — Length from center (point C to point 1) on vertical plane

INITIAL FC ON HORIZONTAL PLANE

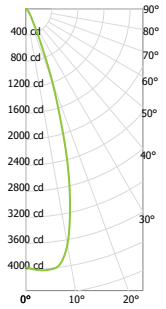
- A — Vertical distance from horizontal plane to center of aperture
- B — Horizontal distance from aperture to center of beam on horizontal plane
- C — Horizontal FC at center of beam on horizontal plane
- 1 — Horizontal FC at top edge of beam angle on horizontal plane
- 2 — Horizontal FC at left and right edge of beam angle on horizontal plane
- 3 — Horizontal FC at bottom edge of beam angle on horizontal plane
- W — Width of beam angle (point 2 to point 2) on horizontal plane
- L1 — Length of beam angle (point 1 to point 3) on horizontal plane
- L2 — Length from center (point C to point 1) on horizontal plane

STR2 2" TRACK LUMINAIRE

Spectrum Lighting

STR2 835 13 xx xx RD2FL RB2BS xx xx

CANDLEPOWER CURVE
TEST SP-01571_2



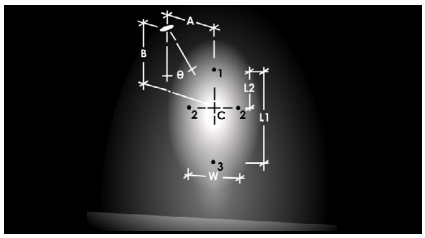
INTENSITY

	CP at 0°
0°	3968
5°	4020
15°	2489
25°	447
35°	127
45°	54
55°	21
65°	5
75°	1
85°	1
90°	1

ZONAL LUMENS

0° - 10°	368	27%
0° - 20°	991	73%
0° - 30°	1206	89%
0° - 40°	1280	94%
0° - 60°	1338	99%
0° - 80°	1345	99%
0° - 90°	1347	99%

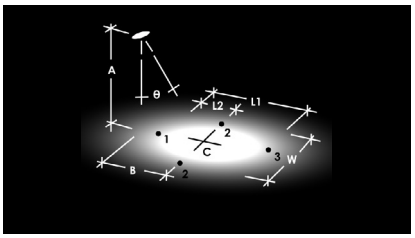
INITIAL FC ON VERTICAL PLANE
30° aiming angle



A	B	C	1	2	3	W	L1	L2
2'	3.5'	124 fc	700 fc	46 fc	-0 fc	5.2'	-40.1'	2.4'
3'	5.2'	55 fc	311 fc	21 fc	-0 fc	7.8'	-60.1'	3.7'
4'	6.9'	31 fc	175 fc	12 fc	-0 fc	10.4'	-80.2'	4.9'
6'	10.4'	14 fc	78 fc	5 fc	-0 fc	15.5'	-120.3'	7.3'

Dimensions W, L1 and L2 based on beam angle

INITIAL FC ON HORIZONTAL PLANE
30° aiming angle



A	B	C	1	2	3	W	L1	L2
6'	3.5'	72 fc	110 fc	50 fc	10 fc	9.0'	12.0'	3.8'
8'	4.6'	40 fc	62 fc	28 fc	6 fc	12.0'	16.1'	5.0'
10'	5.8'	26 fc	40 fc	18 fc	4 fc	15.0'	20.1'	6.3'
12'	6.9'	18 fc	27 fc	13 fc	3 fc	17.9'	24.1'	7.5'

Dimensions W, L1 and L2 based on beam angle

Delivered Lumens: 1356
Luminaire Watts: 14.4
Efficacy: 94.17

CP at 0° (Nadir): 3968

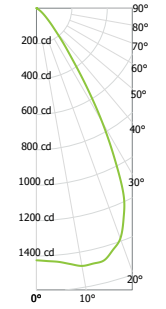
CRI: 80+

Beam Angle: 33°

Lumen Multiplier: 07L x .55, 10L x .75
CCT Multiplier: 822 x 0.75, 827 x 0.93, 830 x 1.0, 840 x 1.0
927 x 0.81, 930 x 0.81, 935 x 0.81, 940 x 0.87

STR2 835 13 xx xx RD2XF RB2BS xx xx

CANDLEPOWER CURVE
TEST SP-01572_2



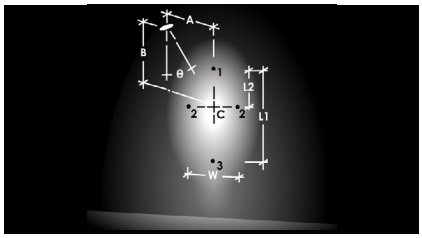
INTENSITY

	CP at 0°
0°	1424
5°	1439
15°	1475
25°	1165
35°	357
45°	91
55°	25
65°	5
75°	2
85°	1
90°	1

ZONAL LUMENS

0° - 10°	142	10%
0° - 20°	555	39%
0° - 30°	1063	75%
0° - 40°	1301	92%
0° - 60°	1396	99%
0° - 80°	1404	99%
0° - 90°	1406	99%

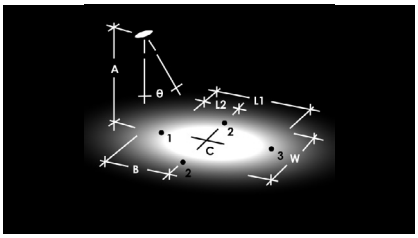
INITIAL FC ON VERTICAL PLANE
30° aiming angle



A	B	C	1	2	3	W	L1	L2
2'	3.5'	45 fc	356 fc	4 fc	-42 fc	13.5'	-3.6'	3.4'
3'	5.2'	20 fc	158 fc	2 fc	-19 fc	20.3'	-5.4'	5.2'
4'	6.9'	11 fc	89 fc	1 fc	-11 fc	27.0'	-7.1'	6.9'
6'	10.4'	5 fc	40 fc	0 fc	-5 fc	40.6'	-10.7'	10.3'

Dimensions W, L1 and L2 based on beam angle

INITIAL FC ON HORIZONTAL PLANE
30° aiming angle



A	B	C	1	2	3	W	L1	L2
6'	3.5'	26 fc	26 fc	7 fc	0 fc	23.4'	566.9'	6.8'
8'	4.6'	14 fc	15 fc	4 fc	0 fc	31.2'	755.9'	9.1'
10'	5.8'	9 fc	9 fc	2 fc	0 fc	39.0'	944.9'	11.4'
12'	6.9'	6 fc	7 fc	2 fc	0 fc	46.8'	1133.8'	13.7'

Dimensions W, L1 and L2 based on beam angle

Delivered Lumens: 1416
Luminaire Watts: 14.4
Efficacy: 98.33

CP at 0° (Nadir): 1424

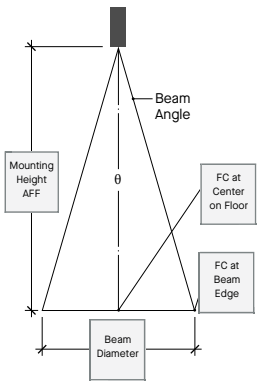
CRI: 80+

Beam Angle: 59°

Lumen Multiplier: 07L x .55, 10L x .75
CCT Multiplier: 822 x 0.75, 827 x 0.93, 830 x 1.0, 840 x 1.0
927 x 0.81, 930 x 0.81, 935 x 0.81, 940 x 0.87

HOW TO USE PERFORMANCE DATA

SINGLE UNIT



Cone of Light of a single, symmetrical beam luminaire. Direct initial illumination (FC) and Beam Angle diameter directly beneath fixture; shown at different distances from aperture to horizontal plane. Calculated using Inverse Square Law.

$FC_H = CP \times (\text{Cos } \theta) \div D^2$

Beam Diam. = ½ Beam Angle (Tan) x 2D

- CP — Candela at 0° (Nadir)
- Cos θ — Cosine of θ Angle
- D — Distance (Mounting Height AFF)
- FC_H — Footcandles, Horizontal
- Beam Angle — Cone of light to 50% max. CP
- Beam Diam. — Pattern of light at Beam Angle

INITIAL FC ON VERTICAL PLANE & INITIAL FC ON HORIZONTAL PLANE

INITIAL FC ON VERTICAL PLANE

- A — Horizontal distance from vertical plane to center of aperture
- B — Vertical distance from aperture to center of beam on vertical plane
- C — Vertical FC at center of beam on vertical plane
- 1 — Vertical FC at top edge of beam angle on vertical plane
- 2 — Vertical FC at left and right edge of beam angle on vertical plane
- 3 — Vertical FC at bottom edge of beam angle on vertical plane
- W — Width of beam angle (point 2 to point 2) on vertical plane
- L1 — Length of beam angle (point 1 to point 3) on vertical plane
- L2 — Length from center (point C to point 1) on vertical plane

INITIAL FC ON HORIZONTAL PLANE

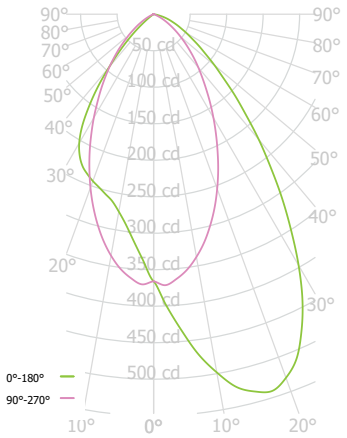
- A — Vertical distance from horizontal plane to center of aperture
- B — Horizontal distance from aperture to center of beam on horizontal plane
- C — Horizontal FC at center of beam on horizontal plane
- 1 — Horizontal FC at top edge of beam angle on horizontal plane
- 2 — Horizontal FC at left and right edge of beam angle on horizontal plane
- 3 — Horizontal FC at bottom edge of beam angle on horizontal plane
- W — Width of beam angle (point 2 to point 2) on horizontal plane
- L1 — Length of beam angle (point 1 to point 3) on horizontal plane
- L2 — Length from center (point C to point 1) on horizontal plane

STR2 2" TRACK LUMINAIRE

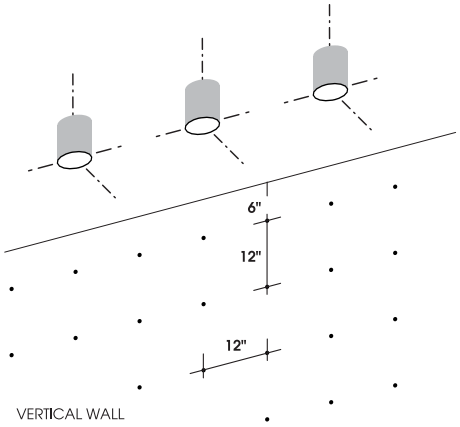
Spectrum Lighting

STR2 835 07 xx xx RD2WW RB2BW xx xx

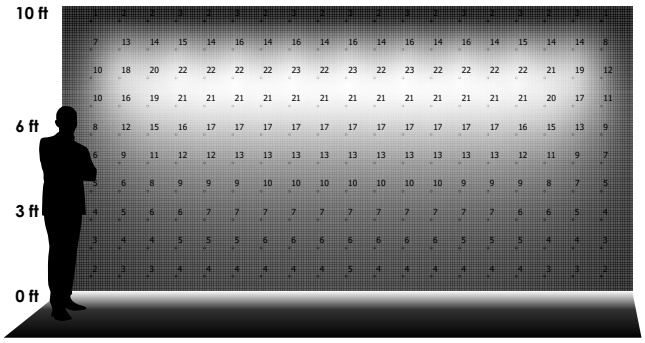
CANDLEPOWER CURVE TEST SP-01589	PERFORMANCE SUMMARY	REFERENCE DIAGRAM



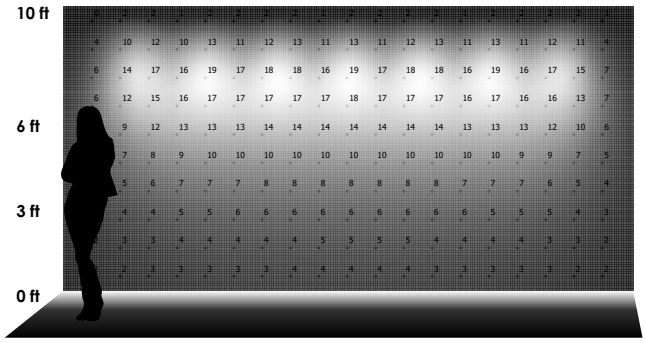
Delivered Lumens:	491
Luminaire Watts:	6.9
LER:	71.16
CP at 0deg (Nadir):	366
CRI:	80+
Lumen Multiplier:	10L x 1.36, 13L x 1.82
CCT Multiplier:	822 x 0.75, 827 x 0.93, 830 x 1.0, 840 x 1.0 927 x 0.81, 930 x 0.81, 935 x 0.81, 940 x 0.87



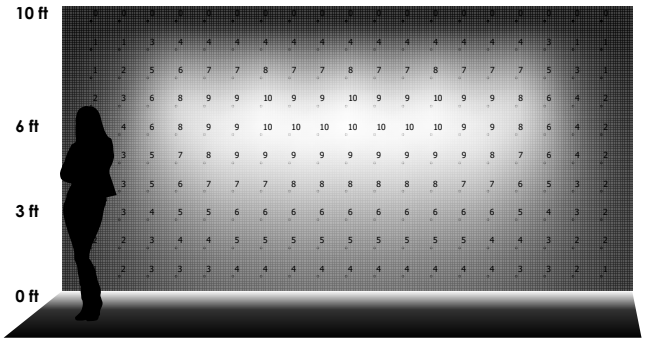
PERFORMANCE DATA - INITIAL ILLUMINATION (FOOTCANDLES) ON WALL - DIRECT LIGHT ONLY



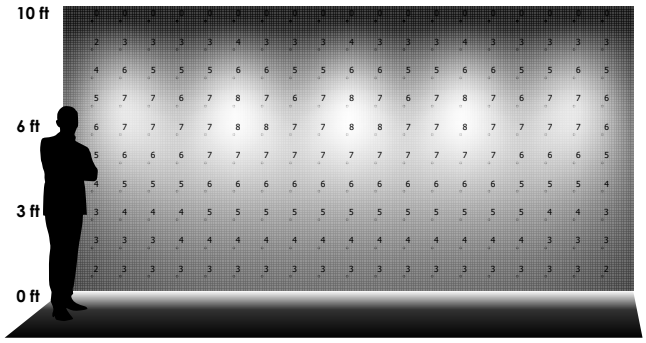
9 LUMINAIRES
2' - 0" away from wall
2' - 0" between luminaires



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



5 LUMINAIRES
3' - 0" away from wall
3' - 0" between luminaires



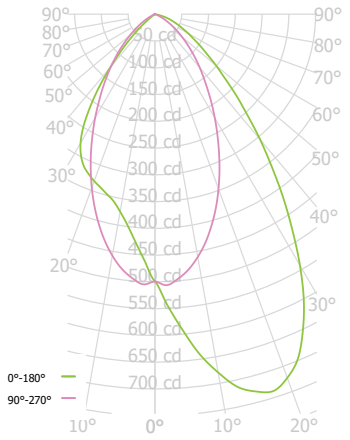
5 LUMINAIRES
3' - 0" away from wall
4' - 0" between luminaires

STR2 2" TRACK LUMINAIRE

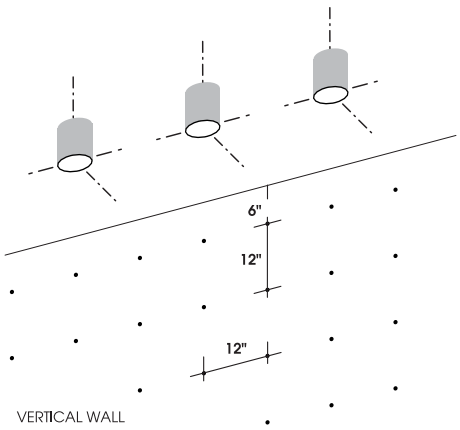
Spectrum Lighting

STR2 835 10 xx xx RD2WW RB2BW xx xx

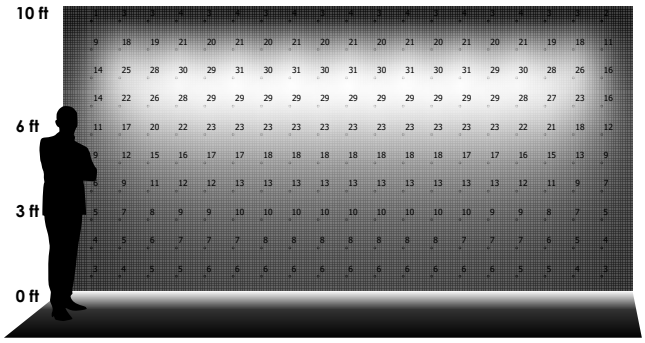
CANDLEPOWER CURVE TEST SP-01589_1	PERFORMANCE SUMMARY	REFERENCE DIAGRAM



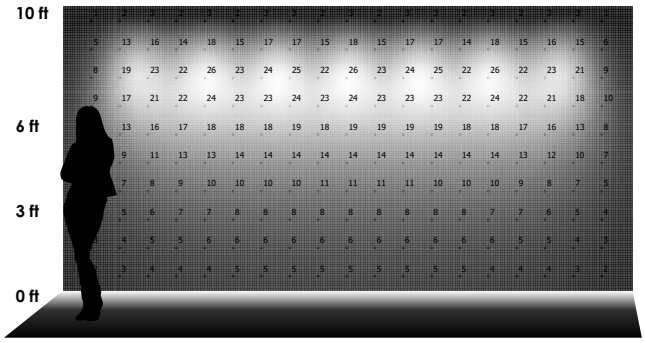
Delivered Lumens:	670
Luminaire Watts:	11.8
LER:	56.78
CP at 0deg (Nadir):	499
CRI:	80+
Lumen Multiplier:	07L x .74, 13L x 1.34
CCT Multiplier:	822 x 0.75, 827 x 0.93, 830 x 1.0, 840 x 1.0 927 x 0.81, 930 x 0.81, 935 x 0.81, 940 x 0.87



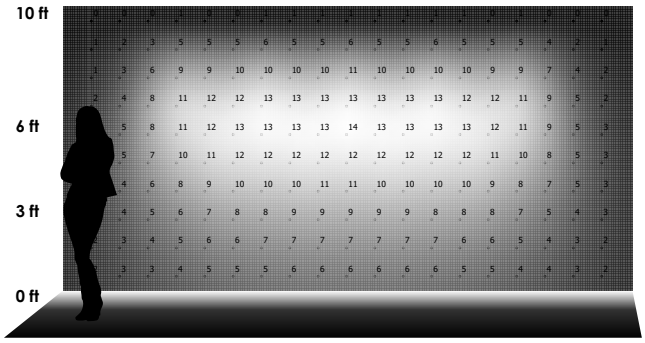
PERFORMANCE DATA - INITIAL ILLUMINATION (FOOTCANDLES) ON WALL - DIRECT LIGHT ONLY



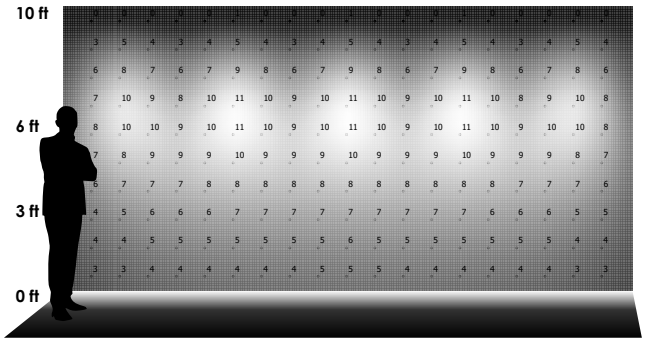
9 LUMINAIRES
2' - 0" away from wall
2' - 0" between luminaires



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



5 LUMINAIRES
3' - 0" away from wall
3' - 0" between luminaires



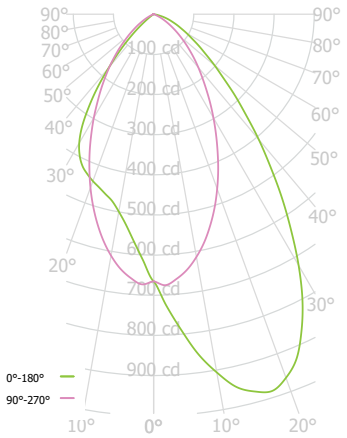
5 LUMINAIRES
3' - 0" away from wall
4' - 0" between luminaires

STR2 2" TRACK LUMINAIRE

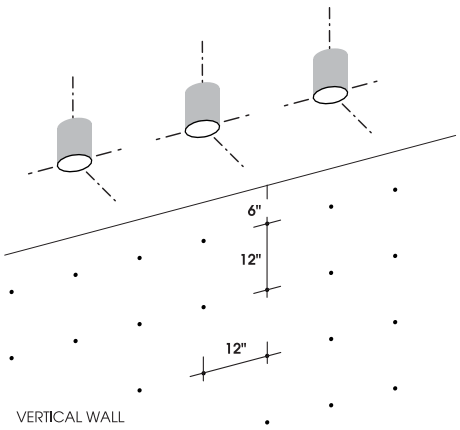
Spectrum Lighting

STR2 835 13 xx xx RD2WW RB2BW xx xx

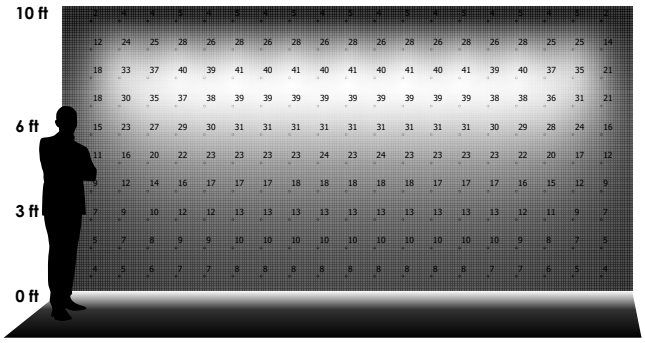
CANDLEPOWER CURVE TEST SP-01589_2	PERFORMANCE SUMMARY	REFERENCE DIAGRAM



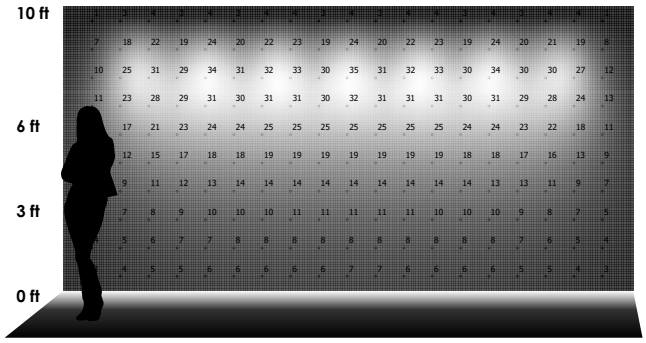
Delivered Lumens:	894
Luminaire Watts:	14.4
LER:	62.08
CP at 0deg (Nadir):	665
CRI:	80+
Lumen Multiplier:	07L x .55, 10L x .75
CCT Multiplier:	822 x 0.75, 827 x 0.93, 830 x 1.0, 840 x 1.0 927 x 0.81, 930 x 0.81, 935 x 0.81, 940 x 0.87



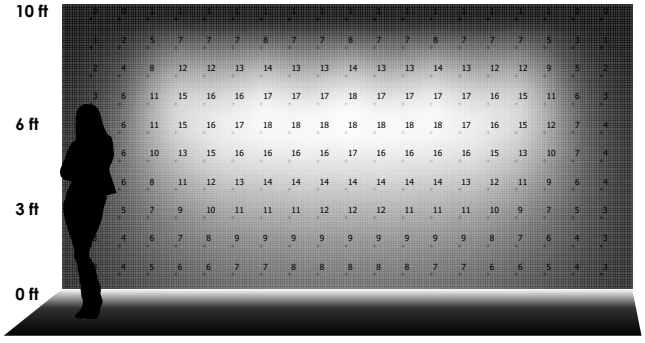
PERFORMANCE DATA - INITIAL ILLUMINATION (FOOTCANDLES) ON WALL - DIRECT LIGHT ONLY



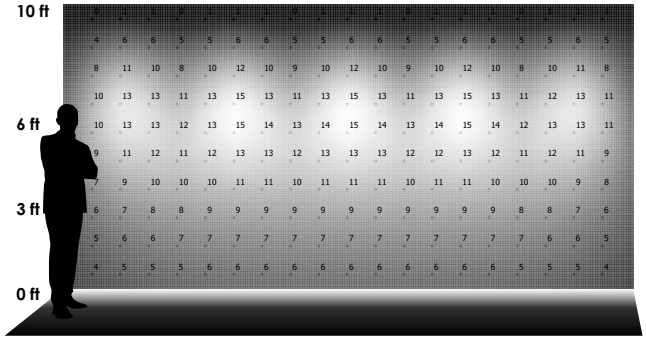
9 LUMINAIRES
2' - 0" away from wall
2' - 0" between luminaires



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



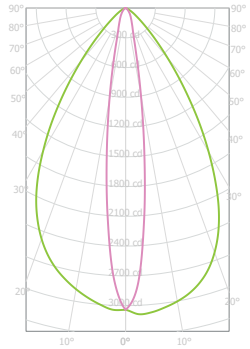
5 LUMINAIRES
3' - 0" away from wall
3' - 0" between luminaires



5 LUMINAIRES
3' - 0" away from wall
4' - 0" between luminaires

STR2 835 13 xx xx RD2XS RB2BS xx RA2LL

CANDLEPOWER CURVE
TEST SP-01590_2



INTENSITY
CANDELA
0° AZIMUTH

	0°	90°	180°	270°
0°	3043	3043	3043	3043
5°	3077	2142	2999	2090
15°	2872	338	2716	364
25°	2220	139	2133	140
35°	1118	77	1152	73
45°	363	37	376	37
55°	108	14	112	16
90°	2	2	2	2

ZONAL LUMENS

0° - 10°	216	19%
0° - 20°	535	47%
0° - 30°	803	71%
0° - 40°	979	87%
0° - 60°	1109	98%
0° - 80°	1126	100%
0° - 90°	1128	100%
Total	1128	100%

SINGLE UNIT: PERFORMANCE
HORIZONTAL FOOTCANDLES
INITIAL DOWNLIGHT ONLY

Mtg Height AFF	FC at Center	Beam Length	Beam Width	FC at Beam Edge
10 '	30 fc	12.1 '	2.5 '	10 fc
12 '	21 fc	14.5 '	3.0 '	7 fc
14 '	16 fc	16.9 '	3.5 '	5 fc
16 '	12 fc	19.3 '	4.0 '	4 fc
20 '	8 fc	24.2 '	5.0 '	2 fc
24 '	5 fc	29.0 '	6.0 '	2 fc
28 '	4 fc	33.9 '	7.0 '	1 fc
32 '	3 fc	38.7 '	8.0 '	1 fc

Delivered Lumens: 1128
Luminaire Watts: 14.4
LER: 78.33

CP at 0° (Nadir): 3043
CRI: 80+

Beam Angle: 62° x 14°
Spacing Ratio: 0.98 x 0.25

Lumen Multiplier: 07L x .55, 10L x .75
CCT Multiplier: 822 x 0.75, 827 x 0.93, 830 x 1.0, 840 x 1.0
927 x 0.81, 930 x 0.81, 935 x 0.81, 940 x 0.87

Beam Angle: The included angle between those points on opposite sides of the beam axis at which the luminous intensity (candela) emitted by the luminaire is 50% of the maximum candela.

Spacing Ratio: The on-center fixture spacing, divided by the vertical distance from the fixture aperture to the illuminated surface.

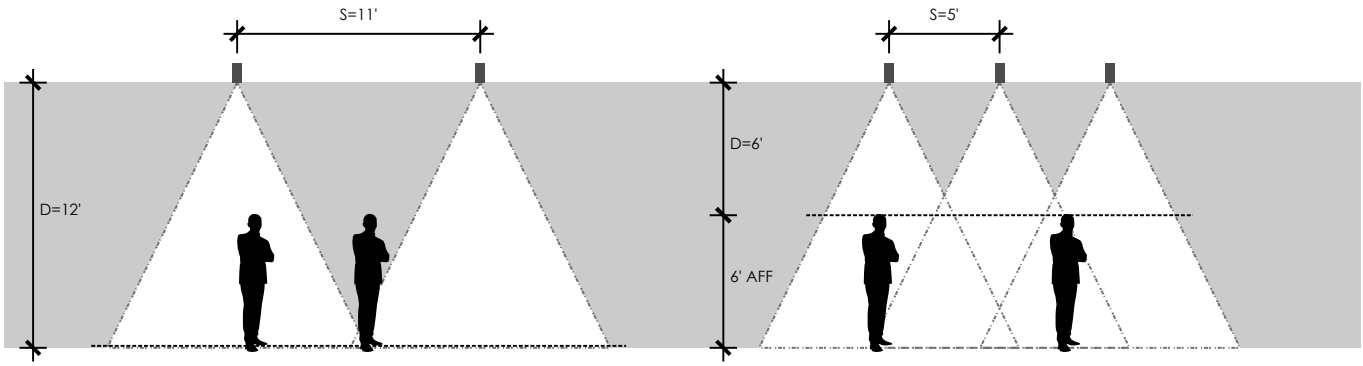
To estimate uniform illumination at a horizontal plane, use Spacing Ratio data to determine maximum fixture spacing.

The examples below illustrate concepts for an aisle/hallway, for uniform illumination (FC) at floor, or at 6' above finished floor (AFF). To estimate maximum fixture spacing for uniform illumination, multiply mounting Distance x Spacing Ratio.

Example A: Uniform FC at Floor

Example B: Uniform FC at 6' AFF

62° x 14° Beam Angles oriented for linear, overlapping light pattern



Example A: Uniform FC at Floor

Example B: Uniform FC at 6' AFF

S = Spacing between fixtures
D = Distance from aperture to horizontal plane

Spacing Ratio for this optic: 0.98 x 0.25
With optic oriented as shown, Spacing Ratio should be ≤ 0.98

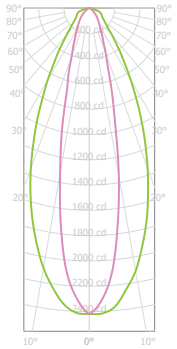
$$\frac{S}{D} = \frac{11'}{12'} = 0.92$$

Note: Illumination will also be uniform at < 6' AFF

$$\frac{S}{D} = \frac{5'}{6'} = 0.83$$

STR2 835 13 xx xx RD2SP RB2BS xx RA2LL

CANDLEPOWER CURVE
TEST SP-01591_2



INTENSITY
CANDELA
0° AZIMUTH

	0°	90°	180°	270°
0°	2418	2418	2418	2418
5°	2367	2086	2347	2082
15°	1747	694	1734	692
25°	972	242	972	270
35°	426	125	430	146
45°	198	68	199	80
55°	126	27	126	30
90°	1	2	1	1

ZONAL LUMENS

0° - 10°	196	19%
0° - 20°	512	50%
0° - 30°	739	72%
0° - 40°	873	85%
0° - 60°	991	97%
0° - 80°	1025	100%
0° - 90°	1026	100%
Total	1026	100%

SINGLE UNIT: PERFORMANCE
HORIZONTAL FOOTCANDLES
INITIAL DOWNLIGHT ONLY

Mtg Height AFF	FC at Center	Beam Length	Beam Width	FC at Beam Edge
10 '	24 fc	8.0 '	3.8 '	10 fc
12 '	17 fc	9.6 '	4.6 '	7 fc
14 '	12 fc	11.2 '	5.4 '	5 fc
16 '	9 fc	12.8 '	6.2 '	4 fc
20 '	6 fc	16.0 '	7.7 '	2 fc
24 '	4 fc	19.2 '	9.2 '	2 fc
28 '	3 fc	22.4 '	10.8 '	1 fc
32 '	2 fc	25.6 '	12.3 '	1 fc

Delivered Lumens: 1026
Luminaire Watts: 14.4
LER: 71.25

CP at 0° (Nadir): 2418
CRI: 80+

Beam Angle: 44° x 22°
Spacing Ratio: 0.68 x 0.36

Lumen Multiplier: 07L x .55, 10L x .75
CCT Multiplier: 822 x 0.75, 827 x 0.93, 830 x 1.0, 840 x 1.0
927 x 0.81, 930 x 0.81, 935 x 0.81, 940 x 0.87

Beam Angle: The included angle between those points on opposite sides of the beam axis at which the luminous intensity (candela) emitted by the luminaire is 50% of the maximum candela.

Spacing Ratio: The on-center fixture spacing, divided by the vertical distance from the fixture aperture to the illuminated surface.

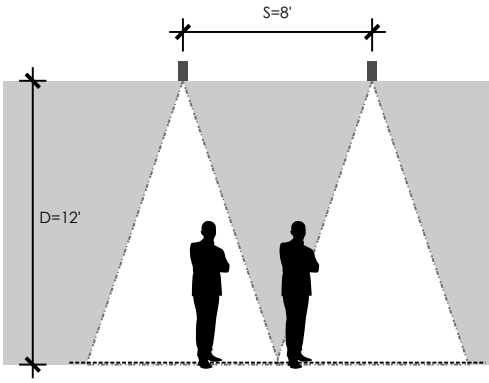
To estimate uniform illumination at a horizontal plane, use Spacing Ratio data to determine maximum fixture spacing.

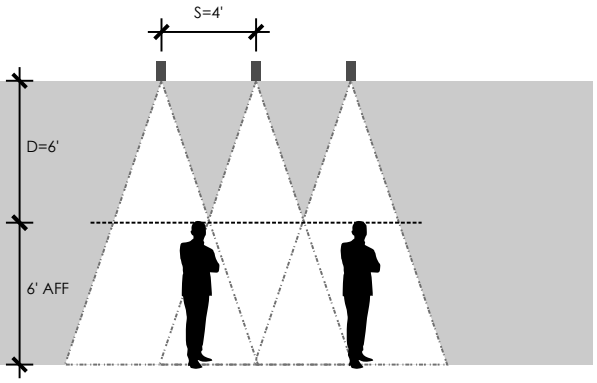
The examples below illustrate concepts for an aisle/hallway, for uniform illumination (FC) at floor, or at 6' above finished floor (AFF). To estimate maximum fixture spacing for uniform illumination, multiply mounting Distance x Spacing Ratio.

Example A: Uniform FC at Floor

Example B: Uniform FC at 6' AFF

44° x 22° Beam Angles oriented for linear, overlapping light pattern





Example A: Uniform FC at Floor

Example B: Uniform FC at 6' AFF

S = Spacing between fixtures
D = Distance from aperture to horizontal plane

Spacing Ratio for this optic: 0.68 x 0.36
With optic oriented as shown, Spacing Ratio should be ≤ 0.68

$$\frac{S}{D} = \frac{8'}{12'} = 0.67$$

Note: Illumination will also be uniform at < 6' AFF

$$\frac{S}{D} = \frac{4'}{6'} = 0.67$$