

TSRA25 BET

2.5" Track Spot Luminaire with Regressed Arm

2.5" Diameter Track spot designed for retail, hospitality and commercial spot lighting applications.

LUMENS / WATTAGE DATA

PART NUMBER	DELIVERED LUMENS*	SYSTEM WATTS	LPW
TSRA25 13L BET	1320	14	94

*1 Nominal Delivered Lumens

*90CRI has same delivered lumens as original 80CRI version due to use of special trigain phosphor LED diodes

FEATURES

TSRA25 fixture delivers approximately 1300 initial lumens viz precise TIR optics. Available in four distinct beam patterns. Regressed optic produces clean beam with smooth edge and is field interchangeable to other beam angles without tools. Integral flat black baffle reduces peripheral brightness. Sturdy, regressed support arm has positive friction-grip hardware that will not sag, or rotate out of aiming position over time. Clean cylindrical housing has no exposed hardware and can rotate 359 degrees with up to 90 degree aiming from nadir. Integral on/off switch for convenience.

CONSTRUCTION

TSRA25 is constructed of die cast aluminum and fabricated steel and is finished with durable powder coat finish that can be easily cleaned and maintained.

ELECTRONICS

TSRA25 has best in class LED system with 5 MacAdam ellipse binning and 90+ CRI. Integral 120V power supply is dimmable via ELV type dimming protocol control devices (contact factory for more information).

CODE COMPLIANCE

ETL listed for dry location. Manufactured and tested to UL Standards No. 1574.

WARRANTY

5 year warranty standard. L70>60,000 hours.

PROJECT: _____

QUANTITY: _____

TYPE: _____



PRODUCT SELECTOR GUIDE

SERIES	FAMILY	LUMENS	CCT	BEAM	DIMMING	ADAPTOR	FINISH	ACCESSORIES
TS	RA25	13L			E1	BET		

EXAMPLE

TS	RA25	13L	35HK	MD	E1	BET	MW	BETHL25A
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SERIES	FAMILY	LUMENS	CCT	BEAM	DIMMING	ADAPTOR	FINISH	ACCESSORIES									
TS	RA25	13L	1320 Lm	90 CRI	E1	Electronic Driver, 120V. ELV / TRIAC Dimming.	BET	Basix 1 CIR/1 NEUT 120V	MW	Matte White	MB	Matte Black	ORDER SEPARATELY				
				30HK									3000 K	XN	20°	BETHL25A	Hex Louver
				35HK									3500 K	ND	26°	BETSNW25A	Snoot white (Matte Black Interior)
				40HK									3900 K	MD	38°	BETSNB25A	Snoot black (Matte Black Interior)
				XW	56°			BET70WH	Mono Point Canopy White								
								BET70BK	Mono Point Canopy Black								

GREEN TEXT INDICATES QUICK SHIP OPTIONS



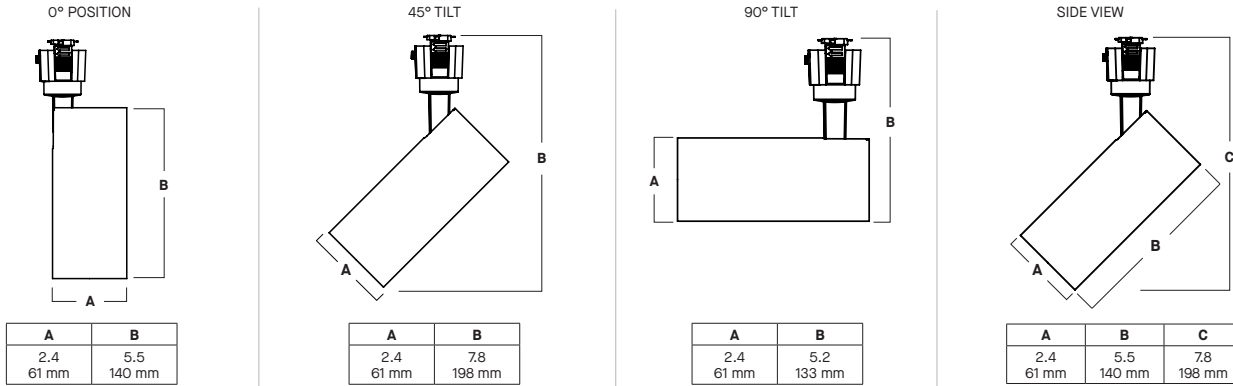
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FIXTURE DIMENSIONS



FINISH



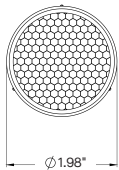
PAINT TIMES

TIER	COST	AVERAGE PAINT TIME*
Tier 1 - Standard Finishes	\$	🕒
Custom Color	Contact Factory	Contact Factory

*CONTACT FACTORY FOR SPECIFIC PRODUCT LEAD TIMES

FIXTURE ACCESSORIES

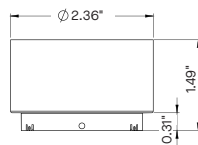
BETHL25A
HEX LOUVER



BETSNW25A
SNOOT WHITE



BETSNB25A
SNOOT BLACK



BET70WH/BK
MONO POINT CANOPY



TS - RA25 - 13L - 35HK - XN - xx -xx - MW

CANDLEPOWER CURVE TEST TSRA25-3	INTENSITY CANDELA 0° AZIMUTH	ZONAL LUMENS		SINGLE UNIT: PERFORMANCE HORIZONTAL FOOTCANDLES INITIAL DOWNLIGHT ONLY				MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES HORIZONTAL FOOTCANDLES AND WATTS/SQ FT						
		0° - 10°	499	42%	Mounting Distance	FC at Beam Center	Diameter at Beam Angle	FC at Beam Edge	Ceiling Height	Fixture Spacing	RCR 4		RCR 6	
	0.00° 6992	0° - 10°	499	42%	8.0'	109 fc	2.8'	52 fc	14'	2'	291	3.50	274	3.53
	5.00° 6148	0° - 20°	893	75%	10.0'	70 fc	3.5'	33 fc	18'	4'	64	0.77	76	0.98
	10.00° 3481	0° - 30°	1040	88%	12.0'	49 fc	4.2'	23 fc	22'	4'	72	0.87	62	0.80
	15.00° 1266	0° - 40°	1098	93%	14.0'	36 fc	4.9'	17 fc	Delivered Illuminance Rating: (DIR)		83 FC per W/Sq. Ft.		78 FC per W/Sq. Ft.	
	20.00° 555	0° - 60°	1137	96%	16.0'	27 fc	5.6'	13 fc	2' Suspension Length to luminous aperture Square rooms used for multiple units: RCR 4: Length & Width = Ceiling Ht. - 4.5' x 2.50 RCR 6: Length & Width = Ceiling Ht. - 4.5' x 1.66 * Average Initial Footcandles at 2.5' Above Floor					
	30.00° 157	0° - 80°	1149	97%	20.0'	17 fc	7.0'	8 fc						
	40.00° 49	0° - 90°	1154	97%	24.0'	12 fc	8.4'	6 fc						
	50.00° 20	Total	1186	100%	28.0'	9 fc	9.8'	4 fc						
	60.00° 9													
	70.00° 6													
	80.00° 3													
	90.00° 5													

Delivered Lumens: **1186**
Luminaire Watts: **13.71**
LER: **86.51**

CP at 0deg (Nadir): **6992**
CRI:

Beam Angle: **19.95**
Spacing Ratio: **0.33**

Lumen Multiplier:
CCT Multiplier:

TS - RA25 - 13L - 35HK - ND - xx -xx - MW

CANDLEPOWER CURVE TEST TSRA25-2	INTENSITY CANDELA 0° AZIMUTH	ZONAL LUMENS		SINGLE UNIT: PERFORMANCE HORIZONTAL FOOTCANDLES INITIAL DOWNLIGHT ONLY				MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES HORIZONTAL FOOTCANDLES AND WATTS/SQ FT						
		0° - 10°	410	34%	Mounting Distance	FC at Beam Center	Diameter at Beam Angle	FC at Beam Edge	Ceiling Height	Fixture Spacing	RCR 3		RCR 5	
	0.00° 5066	0° - 10°	410	34%	8.0'	79 fc	3.7'	37 fc	14'	4'	77	0.87	77	0.95
	5.00° 4694	0° - 20°	935	77%	10.0'	51 fc	4.6'	23 fc	14'	4'	77	0.87	77	0.95
	10.00° 3486	0° - 30°	1075	88%	12.0'	35 fc	5.6'	16 fc	22'	8'	17	0.20	15	0.18
	15.00° 1945	0° - 40°	1127	93%	14.0'	26 fc	6.5'	12 fc	Delivered Illuminance Rating: (DIR)		89 FC per W/Sq. Ft.		82 FC per W/Sq. Ft.	
	20.00° 743	0° - 60°	1167	96%	16.0'	20 fc	7.4'	9 fc	2' Suspension Length to luminous aperture Square rooms used for multiple units: RCR 3: Length & Width = Ceiling Ht. - 4.5' x 3.33 RCR 5: Length & Width = Ceiling Ht. - 4.5' x 2.00 * Average Initial Footcandles at 2.5' Above Floor					
	30.00° 130	0° - 80°	1180	97%	20.0'	13 fc	9.3'	6 fc						
	40.00° 48	0° - 90°	1185	97%	24.0'	9 fc	11.2'	4 fc						
	50.00° 22	Total	1217	100%	28.0'	6 fc	13.0'	3 fc						
	60.00° 10													
	70.00° 7													
	80.00° 5													
	90.00° 4													

Delivered Lumens: **1217**
Luminaire Watts: **13.65**
LER: **89.16**

CP at 0deg (Nadir): **5066**
CRI:

Beam Angle: **26.17**
Spacing Ratio: **0.43**

Lumen Multiplier:
CCT Multiplier:

HOW TO USE PERFORMANCE DATA

SINGLE UNIT	MULTIPLE UNITS
<p>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.</p> $FC_H = CP \times (\cos \theta) \div D^2$ <p>Beam Diam. = $\frac{1}{2}$ Beam Angle (Tan) x 2D</p> <ul style="list-style-type: none"> • 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 	<p>Square grid layout of multiple luminaires in unfurnished, square rooms of different proportions (Room Cavity Ratios) with 80/50/20% room surface reflectances. 2' Suspension Length to aperture. Initial average illumination (FC) calculated at 2.5' above floor, using Zonal Cavity Method. W/Sq. Ft. of layout shown for each ceiling height and RCR.</p> <p>Delivered Illuminance Rating (DIR): System performance indicator expressed as ratio of approximate initial FC per W/Sq. Ft. delivered to horizontal plane below, for the range of ceiling heights indicated.</p> <ul style="list-style-type: none"> • To estimate FC for Fixture Spacing that is different than shown (do not exceed Spacing Ratio): $FC = \text{Chart Spacing}^2 \div \text{Different Spacing}^2 \times \text{Chart FC}$ • To estimate Sq. Ft. per fixture for a specific target FC: $\text{Sq. Ft.} / \text{Fixture} = \text{Chart FC} \times \text{Chart Spacing}^2 \div \text{Target FC}$ <p>To estimate Fixture Quantity in a room: $\text{Fixture Qty.} = \text{Sq. Ft. of Rm.} \div \text{Sq. Ft. per fixture}$</p> <p>To estimate Watts/Sq. Ft.: $\text{W/Sq. Ft.} = \text{Luminaire Watts} \times \text{Qty.} \div \text{Sq. Ft. of Rm.}$</p>

TS - RA25 - 13L - 35HK - MD - xx -xx - MW

CANDLEPOWER CURVE TEST TSRA25-1	INTENSITY CANDELA 0° AZIMUTH	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE HORIZONTAL FOOTCANDLES INITIAL DOWNLIGHT ONLY				MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES HORIZONTAL FOOTCANDLES AND WATTS/SQ FT									
			Mounting Distance	FC at Beam Center	Diameter at Beam Angle	FC at Beam Edge	Ceiling Height	Fixture Spacing	RCR 3		RCR 5					
	0.00°		0° - 10°	240	20%	8.0'	42 fc	5.6'	18 fc	14'	4'	75	0.87	74	0.94	
	0.00° 2699		0° - 20°	738	61%	10.0'	27 fc	7.0'	11 fc	18'	6'	29	0.33	23	0.30	
	5.00° 2592		0° - 30°	1046	86%	12.0'	19 fc	8.3'	8 fc	22'	8'	17	0.20	14	0.18	
	10.00° 2305		0° - 40°	1122	93%	14.0'	14 fc	9.7'	6 fc	Delivered Illuminance Rating: (DIR)		86 FC per W/Sq. Ft.		78 FC per W/Sq. Ft.		
	15.00° 1827		0° - 60°	1164	96%	16.0'	11 fc	11.1'	4 fc	2' Suspension Length to luminous aperture Square rooms used for multiple units: RCR 3: Length & Width = Ceiling Ht. - 4.5' x 3.33 RCR 5: Length & Width = Ceiling Ht. - 4.5' x 2.00 * Average Initial Footcandles at 2.5' Above Floor						
	20.00° 1251		0° - 80°	1176	97%	20.0'	7 fc	13.9'	3 fc							
	30.00° 268		0° - 90°	1181	97%	24.0'	5 fc	16.7'	2 fc							
	40.00° 65		Total	1212	100%	28.0'	3 fc	19.5'	1 fc							
	50.00° 22															
	60.00° 9															
	70.00° 5															
	80.00° 5															
90.00° 5																

Delivered Lumens: **1212**
Luminaire Watts: **13.64**
LER: **88.86**

CP at 0deg (Nadir): **2699**
CRI:

Beam Angle: **38.36**
Spacing Ratio: **0.62**

Lumen Multiplier:
CCT Multiplier:

TS - RA25 - 13L - 35HK - XW - xx -xx - MW

CANDLEPOWER CURVE TEST TSRA25-4	INTENSITY CANDELA 0° AZIMUTH	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE HORIZONTAL FOOTCANDLES INITIAL DOWNLIGHT ONLY				MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES HORIZONTAL FOOTCANDLES AND WATTS/SQ FT								
			Mounting Distance	FC at Beam Center	Diameter at Beam Angle	FC at Beam Edge	Ceiling Height	Fixture Spacing	RCR 2		RCR 4				
	0.00°		0° - 10°	127	11%	6.0'	38 fc	6.4'	13 fc	14'	6'	33	0.39	29	0.39
	0.00° 1361		0° - 20°	456	39%	8.0'	21 fc	8.6'	7 fc	18'	6'	31	0.36	22	0.30
	5.00° 1348		0° - 30°	829	71%	10.0'	14 fc	10.7'	5 fc	22'	8'	15	0.18	13	0.18
	10.00° 1284		0° - 40°	1060	91%	12.0'	9 fc	12.8'	3 fc	Delivered Illuminance Rating: (DIR)		85 FC per W/Sq. Ft.		75 FC per W/Sq. Ft.	
	15.00° 1179		0° - 60°	1120	96%	14.0'	7 fc	15.0'	2 fc	2' Suspension Length to luminous aperture Square rooms used for multiple units: RCR 2: Length & Width = Ceiling Ht. - 4.5' x 5.00 RCR 4: Length & Width = Ceiling Ht. - 4.5' x 2.50 * Average Initial Footcandles at 2.5' Above Floor					
	20.00° 1023		0° - 80°	1131	97%	16.0'	5 fc	17.1'	2 fc						
	30.00° 601		0° - 90°	1136	98%	20.0'	3 fc	21.4'	1 fc						
	40.00° 174		Total	1163	100%	24.0'	2 fc	25.7'	1 fc						
	50.00° 27														
	60.00° 7														
	70.00° 5														
	80.00° 4														
90.00° 4															

Delivered Lumens: **1163**
Luminaire Watts: **13.72**
LER: **84.77**

CP at 0deg (Nadir): **1361**
CRI:

Beam Angle: **56.26**
Spacing Ratio: **0.86**

Lumen Multiplier:
CCT Multiplier:

HOW TO USE PERFORMANCE DATA

SINGLE UNIT	MULTIPLE UNITS
<p>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.</p> $FC_n = CP \times (\cos \theta) \div D^2$ <p>Beam Diam. = 1/2 Beam Angle (Tan) x 2D</p> <ul style="list-style-type: none"> • CP Candela at 0° (Nadir) • Cos θ Cosine of θ Angle • D Distance (Mounting Height AFF) • FC_n Footcandles, Horizontal • Beam Angle Cone of light to 50% max. CP • Beam Diam. Pattern of light at Beam Angle 	<p>Square grid layout of multiple luminaires in unfurnished, square rooms of different proportions (Room Cavity Ratios) with 80/50/20% room surface reflectances. 2' Suspension Length to aperture. Initial average illumination (FC) calculated at 2.5' above floor, using Zonal Cavity Method. W/Sq. Ft. of layout shown for each ceiling height and RCR.</p> <p>Delivered Illuminance Rating (DIR): System performance indicator expressed as ratio of approximate initial FC per W/Sq. Ft. delivered to horizontal plane below, for the range of ceiling heights indicated.</p> <ul style="list-style-type: none"> • To estimate FC for Fixture Spacing that is different than shown (do not exceed Spacing Ratio): $FC = \text{Chart Spacing}^2 \div \text{Different Spacing}^2 \times \text{Chart FC}$ • To estimate Sq. Ft. per fixture for a specific target FC: $\text{Sq. Ft.} / \text{Fixture} = \text{Chart FC} \times \text{Chart Spacing}^2 \div \text{Target FC}$ <ul style="list-style-type: none"> • To estimate Fixture Quantity in a room: $\text{Fixture Qty.} = \text{Sq. Ft. of Rm.} \div \text{Sq. Ft. per fixture}$ • To estimate Watts/Sq. Ft.: $\text{W/Sq. Ft.} = \text{Luminaire Watts} \times \text{Qty.} \div \text{Sq. Ft. of Rm.}$