

**PRODUCT SPECIFICATIONS**

**Cutoff** 45° visual cutoff to lamp and lamp image

**Trims Style** Die Cast Self Flanged and Flangeless reflectors utilize precision wound double torsion springs for tight, secure fit to ceiling • Flange is same finish as reflector unless optional painted white flange is specified

**Socket** Medium base porcelain socket with nickel plated copper screw shell.

**Lamp** One 50W PAR20 or 75W PAR16 lamp max. (See trim for max. lamp rating)

**Adjustability** Acu-Aim™ precision geared hot-aiming achieves 370° rotation, 40° tilt • Optimized center lamp beam optics translates lamp forward as it is aimed off nadir, ensuring maximum light and low brightness • Black aiming mechanism with shield prevents visibility into fixture and preserves dark aperture • Shield hinges out of way to facilitate maintenance.

**Codes/Labels** UL and cUL listed for through-branch wiring, damp locations (wet location with approved trims) • IC13SQ rated for direct contact with insulation • Meets energy code Air Leakage requirements per ASTM E283 • Product thermally protected • Union made.

**Patented (US Patent 8,038,113) Pro-VI™ Bar Hanger System** With locking set screws, permits quick placement of housing within 24" O.C. joists or suspended ceilings • Robust bar eliminates flexing regardless of fixture position • Integral T-bar notch with locking tabs secures housing to suspended ceiling grid • Captive bugle-headed ring shank nail for quick one-step installation • Bar Hanger foot aligns to bottom of construction joist and breaks away for use in suspended ceilings.

**Junction Box** IC13SQ rated for 4 No. 12 AWG 90° C through branch circuit conductors • TC13SQ rated for 8 No. 12 AWG 90° C through branch circuit conductors • Includes (5) 1/2", (1) 3/4", and (4) Non-metallic sheathed cable knock-outs • Push-In electrical connectors for field connections.

**Housing/Mounting Frame** Black steel plaster frame and housing painted for visually dark interior • V-Notch in plaster frame aids fixture alignment during installation • Patent Pending Tru-Line™ Adjustment Mechanism featuring +/- 1/2" translation and +/- 45° aperture rotation aids fixture alignment after installation, prior to drywall.

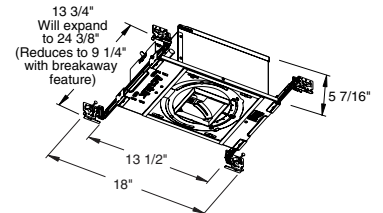
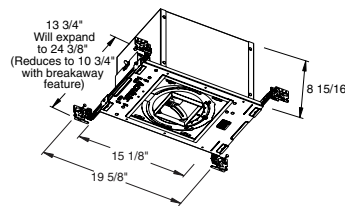
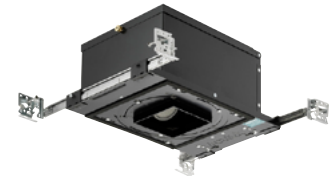
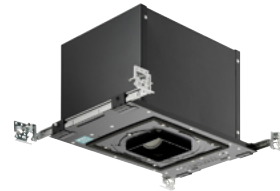
**Ceiling Thickness** 1/2" – 2" ceiling

Specifications subject to change without notice.

**3" PAR16/PAR20 UNIVERSAL RECESSED ADJUSTABLE/DOWNLIGHT/WALL WASH**

PAR16 or PAR20 Halogen

**IC13SQ / TC13SQ**



**IC13SQ**

**TC13SQ**

4 1/8" CEILING CUTOUT  
 (4 1/4" FOR FLANGELESS)

**ORDERING INFORMATION**

Example: IC13SQ 3ABV BS WHFM FMA3/087

HOUSING INFO

Series / Housing Style	Option
IC13SQ 3" Aculux Square PAR16/PAR20 IC Air Tight	CP <sup>1</sup> Chicago Plenum
TC13SQ 3" Aculux Square PAR16/PAR20 Non-IC	

TRIM OPTIONS

Square Trim Style	Reflector Finish	Flange Style / Finish	Environment	Ceiling Installation
<b>ADJUSTABLE ACCENT</b>	<b>BD<sup>3</sup></b> Black Diffuse	<b>SELF-FLANGED</b>	<b>WET<sup>6</sup></b> Wet location	<b>SELF-FLANGED</b>
<b>3SQA</b> Angle-Cut Reflector	<b>CD<sup>3</sup></b> Clear Diffuse	<b>SF<sup>3</sup></b> Flange is same finish as reflector		_____ Ceiling ≤ .875"
<b>3SQABV</b> Adjustable Bevel	<b>W<sup>3</sup></b> White Paint	<b>WHSF</b> White painted flange		<b>CTA3SQ/125</b> Ceiling 0.875" - 1.25"
<b>3SQAPIN</b> Pinhole, 1 1/4"	<b>WTD<sup>3</sup></b> Wheat Diffuse	<b>BLSF<sup>2</sup></b> Black painted flange		<b>CTA3SQ/163</b> Ceiling 1.25" - 1.625"
<b>DOWNLIGHT</b>	<b>BS<sup>2</sup></b> Black Specular	<b>FLANGELESS<sup>5</sup></b>		<b>CTA3SQ/200</b> Ceiling 1.625" - 2.00"
<b>3SQD</b> Deep Reflector		<b>FM<sup>3</sup></b> Flangeless		<b>FLANGELESS, GYPSUM</b>
<b>3SQDBV</b> Downlight Bevel		<b>WHFM<sup>2</sup></b> Flangeless, White trim		<b>FMA3SQ/087</b> Ceiling ≤ .875"
<b>3SQDPIN</b> Pinhole, 1 1/4"		<b>BLFM<sup>2</sup></b> Flangeless, Black trim		<b>FMA3SQ/125</b> Ceiling 0.875" - 1.25"
<b>WALL WASH</b>				<b>FMA3SQ/163</b> Ceiling 1.25" - 1.625"
<b>3SQWW</b> Lensed Wall Wash				<b>FLANGELESS, WOOD/STONE/TILE<sup>4</sup></b>
				<b>SFM3SQ/100 (B,W)</b> Ceiling ≤ 1.00"
				<b>SFM3SQ/138 (B,W)</b> Ceiling 1.00" - 1.375"
				<b>SFM3SQ/163 (B,W)</b> Ceiling 1.375" - 1.625"

NOTES

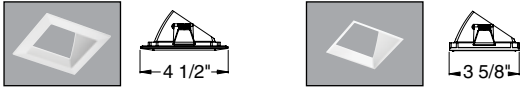



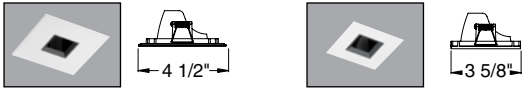









Ordering Notes
<sup>1</sup> CP available on TC13SQ only
<sup>2</sup> Available on 3SQABV, 3SQAPIN, 3SQDBV, 3SQDPIN only
<sup>3</sup> Available for 3SQA, 3SQD, 3SQWW only
<sup>4</sup> Specify finish : B=Black, W=White
<sup>5</sup> Must specify flangeless ceiling installation (FMA3SQ or SFM3SQ)
<sup>6</sup> Not available with 3SQWW

**3" PAR16/PA20 UNIVERSAL RECESSED  
ADJUSTABLE/DOWNLIGHT/WALL WASH**

PAR16 or PAR20 Halogen

**IC13SQ / TC13SQ**

**TRIM SELECTION**

ADJUSTABLE ACCENT					MAX. LAMP RATING
<p><b>35QA</b> Angle Cut Reflector</p>  <p>Aperture: 3 1/4"</p> <p>4 1/2"</p> <p>3 5/8"</p> <p>Self-Flanged</p> <p>Flangeless</p> 			<p><b>IC13SQ :</b> 60W PAR16 / 50W PAR20</p> <p><b>IC13SQ (WET):</b> 45W PAR16 / 50W PAR20</p> <p><b>TC13SQ :</b> 75W PAR16 / 50W PAR20</p> <p><b>TC13SQ (WET) :</b> 60W PAR16 / 50W PAR20</p>		
<p><b>35QABV</b> Adjustable Bevel</p>  <p>Aperture: 1 3/4"</p> <p>4 1/2"</p> <p>3 5/8"</p> <p>Self-Flanged</p> <p>Flangeless</p> 			<p><b>IC13SQ :</b> 45W PAR16 / 50W PAR20</p> <p><b>TC13SQ :</b> 60W PAR16 / 50W PAR20</p>		
<p><b>35QAPIN</b> Adjustable Pinhole, 1 1/4"</p>  <p>Aperture: 1 1/4"</p> <p>4 1/2"</p> <p>3 5/8"</p> <p>Self-Flanged</p> <p>Flangeless</p> 			<p><b>IC13SQ :</b> 60W PAR16 / 50W PAR20</p> <p><b>IC13SQ (WET):</b> 45W PAR16 / 50W PAR20</p> <p><b>TC13SQ :</b> 75W PAR16 / 50W PAR20</p> <p><b>TC13SQ (WET) :</b> 60W PAR16 / 50W PAR20</p>		
DOWNLIGHT TRIMS					
<p><b>35QD</b> Downlight Reflector</p>  <p>Aperture: 3 1/4"</p> <p>4 1/2"</p> <p>3 5/8"</p> <p>Self-Flanged</p> <p>Flangeless</p> 			<p><b>IC13SQ :</b> 60W PAR16 / 50W PAR20</p> <p><b>IC13SQ (WET):</b> 45W PAR16 / 50W PAR20</p> <p><b>TC13SQ :</b> 75W PAR16 / 50W PAR20</p> <p><b>TC13SQ (WET) :</b> 60W PAR16 / 50W PAR20</p>		
<p><b>35QDBV</b> Downlight Bevel</p>  <p>Aperture: 1 3/4"</p> <p>4 1/2"</p> <p>3 5/8"</p> <p>Self-Flanged</p> <p>Flangeless</p> 			<p><b>IC13SQ :</b> 45W PAR16 / 50W PAR20</p> <p><b>TC13SQ :</b> 60W PAR16 / 50W PAR20</p>		
<p><b>35QDPIN</b> Downlight Pinhole, 1 1/4"</p>  <p>Aperture: 1 1/4"</p> <p>4 1/2"</p> <p>3 5/8"</p> <p>Self-Flanged</p> <p>Flangeless</p> 			<p><b>IC13SQ :</b> 60W PAR16 / 50W PAR20</p> <p><b>IC13SQ (WET):</b> 45W PAR16 / 50W PAR20</p> <p><b>TC13SQ :</b> 75W PAR16 / 50W PAR20</p> <p><b>TC13SQ (WET) :</b> 60W PAR16 / 50W PAR20</p>		
WALL WASH					
<p><b>35QWW</b> Lensed Wall Wash</p>  <p>Aperture: 3 1/4"</p> <p>4 1/2"</p> <p>3 5/8"</p> <p>Self-Flanged</p> <p>Flangeless</p> 			<p><b>IC13SQ :</b> 45W PAR16 / 50W PAR20</p> <p><b>TC13SQ :</b> 60W PAR16 / 50W PAR20</p>		

\* With WET option

**3" PAR16/PA20 UNIVERSAL RECESSED  
ADJUSTABLE/DOWNLIGHT/WALL WASH**

PAR16 or PAR20 Halogen

**IC13SQ / TC13SQ**

**ACCESSORIES**

Cat. #	Description	Cat. #	Description
<b>CGF 200 MPINK</b>	Med. Pink Color Filter	<b>DGF 200 MAGEN</b>	Magenta Dichroic Lens
<b>CGF 200 WRED</b>	Warm Red Color Filter	<b>DGF 200 CYAN</b>	Blue Green Dichroic Lens
<b>CGF 200 DLTBLUE</b>	Daylight Blue Color Filter	<b>DCCF 200 HL4250</b>	Daylight Blue Correction Lens
<b>CGF 200 MBLU</b>	Med. Blue Color Filter	<b>DIFF 200</b>	Diffuse Spread Lens
<b>CGF 200 MAMB</b>	Med. Amber Color Filter	<b>SOLITE 200</b>	Uniformity Lens
<b>CGF 200 MGRN</b>	Med. Green Color Filter	<b>UVF 200</b>	UV Filter Lens
<b>DGF 200 DRED</b>	Red Dichroic Lens	<b>PRISM 200</b>	Prismatic Lens
<b>DGF 200 MGRN</b>	Med. Green Dichroic Lens	<b>LSPREAD 200</b>	Linear Spread Lens
<b>DGF 200 MBLU</b>	Med. Blue Dichroic Lens	<b>HCLBL 200</b>	Hexcell Louver
<b>DGF 200 DYEL</b>	Yellow Dichroic Lens		

*To order, specify catalog number.*

**3" PAR16/PA20 UNIVERSAL RECESSED  
ADJUSTABLE/DOWNLIGHT/WALL WASH**

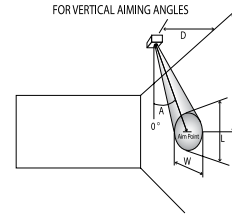
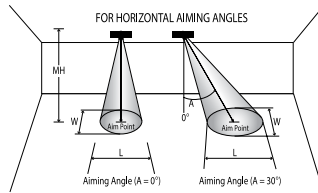
PAR16 or PAR20 Halogen

**IC13SQ / TC13SQ**

**PHOTOMETRICS**

**CBCP** • Centerbeam candlepower  
**FC** • Footcandles at beam center (aim point)

In vertical aiming applications, aim point (X) is determined by dividing distance from the wall (D) by the tangent of the desired aim angle (A) (0.5774 for 30°, 1.0 for 45°).



Lamp	Beam Type	Beam Spread°	Rated Life	CBCP	0°				30°			30°				40°				
					MH	FC	L	W	FC	L	W	D	FC	X	L	W	FC	X	L	W
50W PAR20 Halogen	SP	10°	2500	4600	6	128	1.0	1.0	83	1.4	1.2	2	144	3.5	5.5	2.1	305	2.4	0.9	0.5
					8	72	1.4	1.4	47	1.9	1.6	3	64	5.0	2.1	1.0	136	3.6	1.3	0.8
					10	46	1.7	1.7	30	2.3	2.0	4	36	6.9	2.9	1.4	76	4.8	1.7	1.1
					12	32	2.1	2.1	21	2.8	2.4	5	23	8.7	3.6	1.7	49	6.0	2.1	1.4
	FL	30°	2500	1200	4	75	2.1	2.1	49	2.9	2.5	2	38	3.5	5.5	2.1	80	2.4	2.9	1.7
					5	48	2.7	2.7	31	3.7	3.1	3	17	5.2	8.2	3.2	35	3.6	4.3	2.5
					6	33	3.2	3.2	22	4.4	3.7	4	9	6.9	10.9	4.3	20	4.8	5.8	3.3
					7	25	3.8	3.8	16	5.1	4.3	5	6	8.7	13.7	5.4	13	6.0	7.2	4.2
8	19	4.3	4.3	12	5.9	5.0	6	4	10.4	16.4	6.4	9	7.2	8.7	5.0					
45W PAR16 Halogen	NSP	10°	2000	5000	6	139	1.0	1.0	90	1.4	1.2	2	156	3.5	1.4	0.7	332	2.4	0.9	0.5
					8	78	1.4	1.4	51	1.9	1.6	3	69	5.2	2.1	1.0	148	3.6	1.3	0.8
					10	50	1.7	1.7	32	2.3	2.0	4	39	6.9	2.9	1.4	83	4.8	1.7	1.1
					12	35	2.1	2.1	23	2.8	2.4	5	25	8.7	3.6	1.7	53	6.0	2.1	1.4
	NFL	27°	2000	1400	3	156	1.4	1.4	101	2.0	1.7	1	175	1.7	2.3	1.0	372	1.2	1.4	0.8
					5	56	2.4	2.4	36	3.3	2.8	2	44	3.5	4.6	1.9	93	2.4	2.9	1.7
					7	29	3.4	3.4	19	4.6	3.9	3	19	5.2	7.0	2.9	41	3.6	4.3	2.5
					9	17	4.3	4.3	11	5.9	5.0	4	11	6.9	9.3	3.8	23	4.8	5.8	3.3
11	12	5.3	5.3	8	7.2	6.1	5	7	8.7	11.6	4.8	15	6.0	7.2	4.2					
60W PAR16 Halogen	NSP	10°	2000	5400	6	150	1.0	1.0	97	1.4	1.2	2	169	3.5	1.4	0.7	359	2.4	0.9	0.5
					8	84	1.4	1.4	55	1.9	1.6	3	75	5.2	2.1	1.0	159	3.6	1.3	0.8
					10	54	1.7	1.7	35	2.3	2.0	4	42	6.9	2.9	1.4	90	4.8	1.7	1.1
					12	38	2.1	2.1	24	2.8	2.4	5	27	8.7	3.6	1.7	57	6.0	2.1	1.4
	NFL	30°	2000	1550	4	97	2.1	2.1	63	2.9	2.5	2	48	3.5	5.5	2.1	103	2.4	2.9	1.7
					6	43	3.2	3.2	28	4.4	3.7	3	22	5.2	8.2	3.2	46	3.6	4.3	2.5
					8	24	4.3	4.3	16	5.9	5.0	4	12	6.9	10.9	4.3	26	4.8	5.8	3.3
					10	16	5.4	5.4	10	7.3	6.2	5	8	8.7	13.7	5.4	16	6.0	7.2	4.2
12	11	6.4	6.4	7	8.8	7.4	6	5	10.4	16.4	6.4	11	7.2	8.7	5.0					
75W PAR16 Halogen	NSP	10°	2000	7500	6	208	1.0	1.0	135	1.4	1.2	2	234	3.5	1.4	0.7	498	2.4	0.9	0.5
					8	117	1.4	1.4	76	1.9	1.6	3	104	5.2	2.1	1.0	221	3.6	1.3	0.8
					10	75	1.7	1.7	49	2.3	2.0	4	59	6.9	2.9	1.4	124	4.8	1.7	1.1
					12	52	2.1	2.1	34	2.8	2.4	5	38	8.7	3.6	1.7	80	6.0	2.1	1.4
	NFL	30°	2000	1900	4	119	2.1	2.1	77	2.9	2.5	2	59	3.5	5.5	2.1	126	2.4	2.9	1.7
					6	53	3.2	3.2	34	4.4	3.7	3	26	5.2	8.2	3.2	56	3.6	4.3	2.5
					8	30	4.3	4.3	19	5.9	5.0	4	15	6.9	10.9	4.3	32	4.8	5.8	3.3
					10	19	5.4	5.4	12	7.3	6.2	5	10	8.7	13.7	5.4	20	6.0	7.2	4.2
12	13	6.4	6.4	9	8.8	7.4	6	7	10.4	16.4	6.4	14	7.2	8.7	5.0					

The beam spread in degrees and the beam "L" and "W" in the following tables are computed at 50% of centerbeam candlepower and represent areas of "effective illumination."

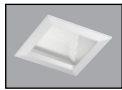








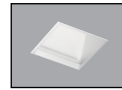
3SQWW Lensed Wall Wash



Self-Flanged



Aperture: 3 1/4"



Flangeless



# 3" PAR16/PA20 UNIVERSAL RECESSED DOWNLIGHT

PAR16 or PAR20 Halogen

## IC13SQ / TC13SQ with 3SQWW Trim

### PHOTOMETRICS

#### PHOTOMETRIC REPORT

Catalog Number: IC13SQ 3SQWW CD SF

Test Number: PTO21003003

Total Luminaire Efficiency: 55.9%

Luminaire Spacing Criteria: .58

Luminaire: Haze finish, lensed wall wash.

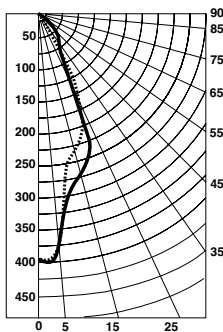
Lamps: One 45PAR16/FL27

#### Luminance Data

Ang in Deg	Footlamberts	Candela/M <sup>2</sup>
45	1264	4332
55	311	1064
65	0	0
75	0	0
85	0	0

#### Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixture
0-30°	165	39.4	70.4
0-40°	199	47.3	84.6
0-60°	230	54.8	97.9
0-90°	235	55.9	100
90-180°	0	0	0
0-180°	235	55.9	100



#### Candlepower Distribution (Candelas)

Degrees Vertical	0° Wall Wash	180° Downlight
0°	384	384
5°	350	374
15°	228	200
25°	123	128
35°	73	42
45°	54	21
55°	27	4
65°	14	0
75°	7	0
85°	0	0

#### Footcandles on Wall from Multiple Fixtures

Fixture Distance to Wall	18"						24"					
	18"		24"		18"		24"		18"		24"	
1'	8	7	8	7	4	7	4	4	4	4	3	4
2'	11	10	11	8	7	8	8	8	8	6	6	6
3'	8	8	8	6	6	6	7	7	7	5	5	5
4'	8	7	8	6	6	6	6	6	6	4	5	4
5'	6	6	6	4	4	4	6	6	6	4	4	4
6'	4	5	4	3	3	4	5	5	5	4	4	4
7'	3	4	3	3	3	3	4	4	4	3	3	3
8'	3	3	3	2	2	2	3	3	3	3	3	3
9'	3	3	3	2	2	2	3	3	3	2	2	2

\*Multipliers: Gold - 0.9, Black - 0.7, Haze - 0.95

\*Note: Multipliers are provided for estimating purposes only. Use IES photometric files for precise photometric information.

#### PHOTOMETRIC REPORT

Catalog Number: TC13SQ 3SQWW CD SF

Test Number: PTO2100502

Total Luminaire Efficiency: 58.4%

Luminaire Spacing Criteria: 0.82

Luminaire: Haze finish, lensed wall wash.

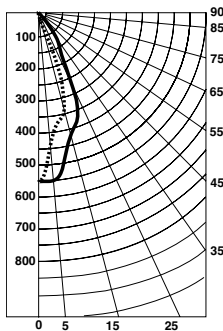
Lamps: One 60PAR16/HAL/NFL30

#### Luminance Data

Ang in Deg	Footlamberts	Candela/M <sup>2</sup>
45	1778	6093
55	391	1341
65	0	0
75	0	0
85	0	0

#### Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixture
0-30°	263	40.4	69.3
0-40°	321	49.4	84.7
0-60°	371	57.0	97.7
0-90°	379	58.4	100.0
90-180°	0	0	0
0-180°	379	58.4	100.0



#### Candlepower Distribution (Candelas)

Degrees Vertical	0° Wall Wash	180° Downlight
0°	520	520
5°	538	446
15°	404	315
25°	298	150
35°	117	75
45°	84	29
55°	44	5
65°	20	0
75°	11	0
85°	0	0

#### Footcandles on Wall from Multiple Fixtures

Fixture Distance to Wall	18"						24"					
	18"		24"		18"		24"		18"		24"	
1'	14	11	14	12	6	12	6	6	6	5	4	5
2'	17	16	17	13	12	13	13	12	13	10	9	10
3'	18	17	18	14	12	14	12	13	12	10	9	10
4'	15	15	15	11	11	11	13	13	13	10	10	10
5'	11	12	11	8	9	8	12	12	12	9	9	9
6'	9	9	9	6	7	6	10	10	10	8	8	8
7'	7	7	7	5	5	5	8	8	8	6	6	6
8'	6	6	6	4	4	4	7	7	7	5	5	5
9'	5	5	5	4	4	4	6	6	6	4	4	4

\*Multipliers: Gold - 0.9, Black - 0.7, Haze - 0.95

\*Note: Multipliers are provided for estimating purposes only. Use IES photometric files for precise photometric information.