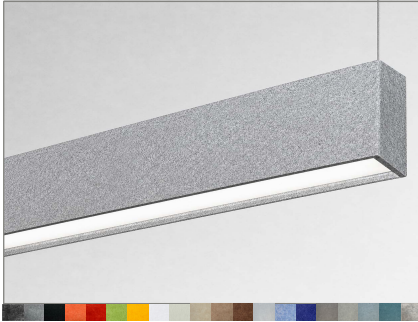


CUBE1-NRC

Project Name:	
Type:	



CASAMBI

APPLICATION

The CUBE1-NRC offers an easy integration of lighting and acoustic solutions. While the acoustic provides an acoustic solution to the source of noise for optimal sound absorption, seamlessly designed acoustic felt gives design flexibility and personalization for any application. Perfect for places in need to reduce reverberation such as open offices, lobbies, retail, hospitality, reception areas and corridors, and commercial interiors.

FEATURE:

- Sound absorbing linear direct acoustic LED luminaire.
- Material rated for NRC (Noise Reduction Coefficient) of 0.90.
- Acoustic felt is 100% virgin polyester and 0.5" thick.
- 45 degree deburr design is standard. Flushed design is available upon request.
- Available in 6" to 24" nominal housing heights in 2" increments.
- Wide range of felt color (2 standards and 18 premium) options available. Refer to the last page for color offering

MOUNTING:

- Pendant mount.

LED:

- High quality array LEDs.
- LM80
- Color Temperature: 2700/3000/3500/4000/5000 (K).
- Color Rendering Index: >80 (optional >90).
- Nominal Lamp Life: 100,000 hours.
- Reported L70 hours: +60,000 (55°C).

ELECTRICAL:

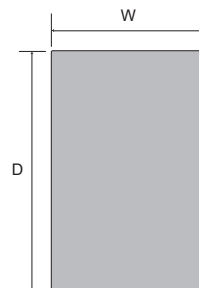
- High power factor electronic driver, operate from a 120 ~ 277 Vac input range, 50 / 60 Hz.
- Features included over voltage protection, surge, short circuit protection and over load protection.
- Power Factor: typical > 0.95, THD <20, meets Class1 or Class 2 circuit.
- 0-10V dimmable driver as standard.
- 0-10VDC dimming 1%~100%.
- Operating temperature: -4°F (-20°C) ~ 122°F (50°C).
- <ESRN>
- UL924 Emergency Bypass Shunt Load Relay.
- Automatically turns on emergency egress lighting to full power/light output on loss of normal power, until normal power is restored.
- 120-277VAC, operating temp: -30°F (-34°C) to 140°F (60°C).

FINISH:

- Fixture is powder-coated in standard white finish
- Comes with snap-in acrylic lens as standard.

LISTING:

- UL / CUL listed.
- Listed to UL 1598 and UL 8750.
- UL listed for dry & damp location.
- CEC Compliant EM (please contact for more information)
- Assembled in USA (optional).
- BAA compliant (optional).
- Trade Agreements Act compliant (optional).
- 5 years limited warranty.
- 7 or 10 years limited warranty. (optional) ⁵
- Bluetooth Mesh System available, please contact factory for more information.

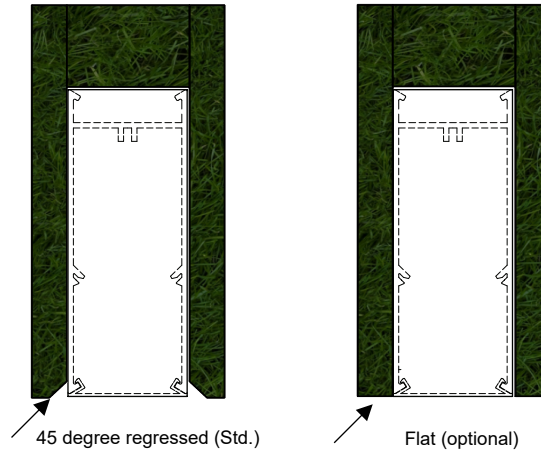


Specifications: CUBE1-NRC

Width: 2.75 (88.9)
Depth: Min. 6 (152.4)

All dimensions are in inches (millimeters).

CUBE1-NRC



CONFIGURATIONS

Series	Size	Model #	AC Input	Lumen Output (4000K)	Lumen Efficiency (4000K)
CUBE1	2'	D9L	4.95W	544.5 lm	110 lm/W
		D18L	9.9W	1089 lm	
		D27L	14.85W	1633.5 lm	
		D36L	19.8W	2178 lm	
	3'	D9L	7.4W	814 lm	
		D18L	14.85W	1633.5 lm	
		D27L	22.2W	2442 lm	
		D36L	26.4W	2904 lm	
	4'	D9L	9.9W	1089 lm	
		D18L	19.8W	2178 lm	
		D27L	29.7W	3267 lm	
		D36L	39.6W	4356 lm	
	6'	D9L	14.85W	1633.5 lm	
		D18L	29.7W	3267 lm	
		D27L	44.55W	4900.5 lm	
		D36L	59.4W	6534 lm	
	8'	D9L	19.8W	2178 lm	
		D18L	39.6W	4356 lm	
		D27L	59.4W	6534 lm	
		D36L	79.2W	8712 lm	

CCT	Multiplier		
	3000K	3500K	5000K
Down only	0.9642	0.9822	1.0357
Up&Down	0.971	0.9856	1.029

Series	Size	Model #	AC Input	Lumen Output (4000K)	Lumen Efficiency (4000K)
CUBE1	2'	D9L/U9L	9.9W	1089 lm	110 lm/W
		D9L/U18L	14.85W	1634 lm	
		D18L/U18L	19.8W	2178 lm	
		D27L/U18L	24.75W	2723 lm	
		D36L/U18L	25.25W	2778 lm	
		D36L/U27L	35.06W	3857 lm	
	3'	D9L/U9L	14.8W	1628 lm	
		D9L/U18L	22.25W	2448 lm	
		D18L/U18L	29.7W	3267 lm	
		D27L/U18L	37.0W	4070 lm	
		D36L/U18L	37.87W	4166 lm	
		D36L/U27L	52.53W	5778 lm	
	4'	D9L/U9L	19.8W	2178 lm	
		D9L/U18L	29.7W	3267 lm	
		D18L/U18L	39.6W	4356 lm	
		D27L/U18L	49.5W	5445 lm	
		D36L/U18L	50.49W	5554 lm	
		D36L/U27L	70.13W	7714 lm	
	6'	D9L/U9L	29.7W	3267 lm	
		D9L/U18L	44.55W	4901 lm	
		D18L/U18L	59.4W	6534 lm	
		D27L/U18L	74.2W	8162 lm	
		D36L/U18L	75.74W	8331 lm	
		D36L/U27L	105.19W	11571 lm	
	8'	D9L/U9L	39.6W	4356 lm	
		D9L/U18L	59.4W	6534 lm	
		D18L/U18L	79.2W	8712 lm	
		D27L/U18L	99.0W	10890 lm	
		D36L/U18L	100.98W	11108 lm	
		D36L/U27L	140.25W	15428 lm	

CUBE1-NRC

ORDERING INFORMATION

* These custom products are non-cancellable, non-returnable, and non-refundable with the exception of manufacturer defects or damages.

EXAMPLE: CUBE1-NRC-IND-4-D27L-40K-UNV-SL

MODEL	ROW ¹		SECTION ²		HEIGHT (height is nominal)		LED Downlight (per/4ft section)		LED Uplight (per/4ft section)	
CUBE1-NRC	IND CON	Individual Mount Continuous Row Mount	2 3 4 6 8	2' Length 3' Length 4' Length 6' Length 8' Length ³	6 8 10 12 XX	6" (Minimum) 8" 10" 12" Custom Height, Max. 24" (2" increments)	(Blank) D9L D18L D27L D36L Dxx	No Downlight 18W LED (272 lm/ft) 27W LED (544 lm/ft) 36W LED (816 lm/ft) 48W LED (1089 lm/ft) Custom lumen or watt: ___LM or ___W.	(Blank) U9L U18L U27L Uxx	No Uplight 18W LED (272 lm/ft) 27W LED (544 lm/ft) 27W LED (816 lm/ft) Custom lumen or watt: ___LM or ___W.
* Number of circuit(s) should be determined by the customer prior to ordering the continuous run considering the AC input voltage and total run wattage.						* Max up to 1089lm/ft or 9.9W/ft * with TDM/ELV: offered to closest lm or W.		* Max up to 816lm/ft or 7.425W/ft * with TDM/ELV: offered to closest lm or W.		

Uplight DISTRIBUTION		COLOR TEMP.		CRI		MOUNTING		VOLTAGE		EM SECTION ⁴	
(Blank) UBAT	No optic ¹⁹ Uplight Batwing 120°	-27 -30 -35 -40 -50	2700K ⁹ 3000K 3500K 4000K 5000K	(Blank) C9	80+ CRI 90+ CRI ⁸	(Blank)	Pendant	UNV 120 277 347	120-277V 120V 277V 347V ¹⁴	(Blank) 1SE 2SE xSE	No EM 1 Section 2 Section x Section

FINISH (fixture)		FINISH (baffle)		BAFFLE STYLE		CORD FINISH (for pendant)		CANOPY FINISH (for pendant)	
(Blank) *BK *SV **CC *AMB	Matte White RAL #9003 (Std.) Black RAL #9011 Silver (Cardinal #T353-GR06) Custom Color ¹¹ Anti-Microbial Coating (Matte Skye White) * Non-standard finish with extra charge. ** Additional charge & set up fee.	SL PW *CC	Slate Pewter Premium Color (choose 2 letters from the last page) * Contact factory for lead time and pricing for premium color.	(Blank) FL	45° regressed Flat	(Blank) *BKC	White (Std.) Black ¹⁰	(Blank) *BC *SC **CSS	White (Std.) Black Canopy Silver Canopy Custom Canopy Color (White Std.) * Non-standard finish with extra charge. ** Additional charge & set-up fee.

CEILING TYPE (for pendant)		SUSPENSION LENGTH (for pendant)		LED DRIVER	
X1 X2 X3 X5	T-bar ceiling Hard ceiling Sloped Hard ceiling 9/16" Screw Slot ceiling	AC48 AC96 ST24 ST48	Adjustable Aircraft Cable Canopy 48"L Adjustable Aircraft Cable Canopy 96"L Stem Canopy 24"L Stem Canopy 48"L * add "FC" at the end of stem length for field cuttable stem kit (Ex) ST48FC)	(Blank) UDSD SP ES566 SD40 SDXX PHSR PHDL TDM TD30/70 TDXX/YY LDE1 ELV DTO	0-10V dim to 1% (Std.) Separate Dimming Control of Uplight and Downlight (0-10V dim to 1%) Separate Power Control for Uplight and Downlight eldoLED SOLOdrive Natural Dimming to dark, 0-10V, 100% ~ 0.1% dim 40% / 100% Bi-Level Step dim XX% / 100% Bi-Level Step dim (Specify XX : 10% ~ 70%) Philips Xitanium Sensor-Ready, Dali 5%~100% dim. Philips Xitanium DALI driver, Dim to 5% Triac Dim. (120V only) 30% / 70% / 100% Tri-Level Step dim XX% / YY% / 100% Tri-Level Step dim (Specify XX, YY : 10% ~ 70%) Hi-lume 1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology, 100% ~ 1% dim ELV compatible (reverse-phase or trailing-edge), (120V only) 0-10V DIM-TO-OFF

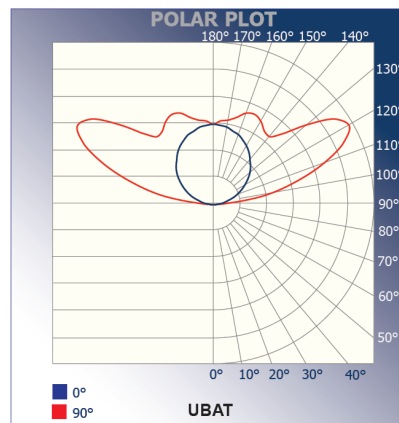
CUBE1-NRC

OPTIONS		LIGHTING CONTROL SYSTEM	
EMG8	8W EM Battery Backup (CEC Compliant EM) ^{6, 13, 15}	VIVE	<Lutron> Lutron Vive Bluetooth ready options, please contact factory.
EMG15	15W EM Battery Backup (CEC Compliant EM) ^{6, 13, 15}	ATHENA	Lutron Athena Bluetooth ready options, please contact factory.
EMG20	20W EM Battery Backup (CEC Compliant EM) ^{6, 13, 15}		
EMG25	25W EM Battery Backup (CEC Compliant EM) ^{6, 13, 15}		
ESRN	UL924 Emergency Bypass Shunt Load Relay, 120-277VAC ^{7, 18}		
ESRNTB	Remote Test Button for ESRN ⁷	SNS200C	<EasySense> EasySense Ceiling-mount occupancy sensing, daylight harvesting and task tuning in one device (Must be ordered with PHSR driver) ¹²
F1	Single Fuse for 120/277/347V ¹⁴	RS-IR	IR dongle v2.0 for EasySense control
ARRA	Assembled in USA		
BAA	BAA(Buy American Act) compliant	AUTANI	<Bluetooth> Autani / Keilton Bluetooth control ready options.
TAA	Trade Agreements Act compliant	CASAMBI	Casambi Bluetooth control ready options.
O7W	Optional 7 Years Limited Warranty ⁵	AVI-ON	Avi-On Bluetooth control ready options.
O10W	Optional 10 Years Limited Warranty ⁵		
ADPMS	Bluetooth Mesh Wireless Sensor. Occupancy/ Daylight Harvesting/0-10V Dimming ^{16, 17}		

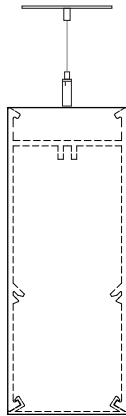
* Please contact factory for Bluetooth control with sensor and other options

NOTES:

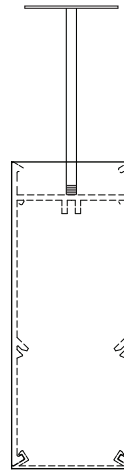
- Specify only when Continuous Row Mount.
- No need to select, if same as row length and section length.
- Comes with 1pc 8ft lens.
- EM is installed in last 4' of luminaire sections. Separate section required 2SE or specified. Must specify voltage, not available with 347V.
- This limited warranty covers electrical parts only and does not apply to labor, equipment lease, or defect from improper installation or operation.
- Contact factory for other emergency ballast options.
- Shipped separately.
- Lumen per watt is around 15% less than standard CRI (80+).
- Available with C9 (CRI 90+) only.
- Not available with the EM option.
- Refer to color charts (RAL and/or Cardinal) in the separate attachment.
- Refer to Advanced Grouping Datasheet for its default setting and compatible wireless switches.
- 347V cannot work with Emergency Battery Backup.
- Must specify voltage.
- EM may only be remote mounted for up to 3ft. Remote box is provided by others.
- Default setting from the factory is "occupancy enabled, Daylight disabled". To enable Daylight, disable occupancy and enable daylight adjustment must be made in the field prior to installation.
- Only available with standard 0-10V LED driver.
- @120/277VAC Max. 16 Amp. LED
- Comes with a one-piece flat acrylic lens (up to 8ft) as standard.



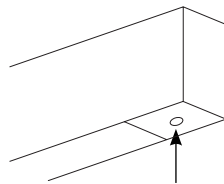
CUBE1-NRC



AC Cable



Stem



Sensor Plate

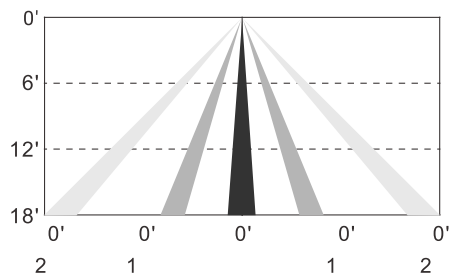


Lutron Vive Integral
fixture control installatio

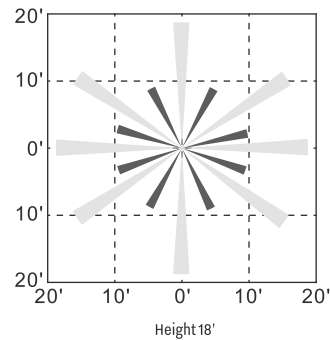


EasySense
fixture-mount installatio

SIDE VIEW



TOP VIEW



ADPMS coverage pattern

COMPATIBLE DIMMER SWITCH (TABLE 1)

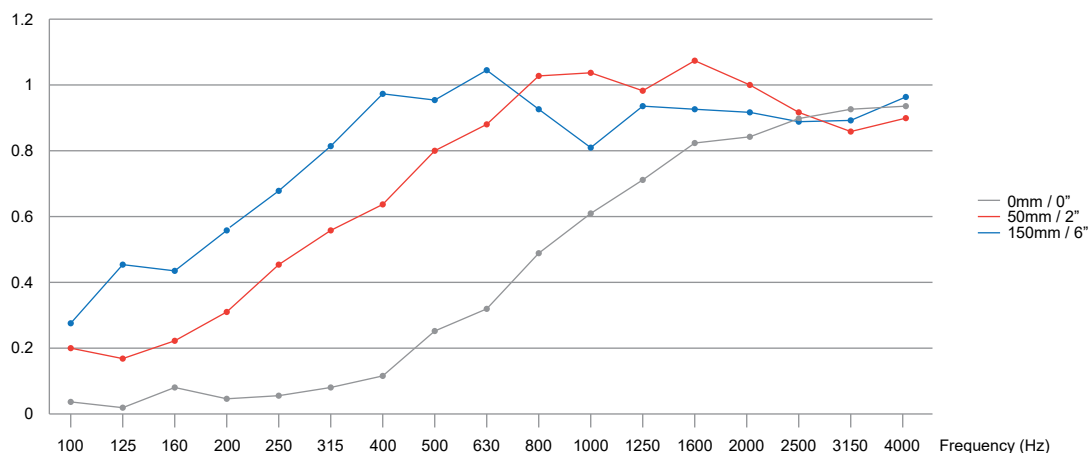
Model #	Brand	Compatible Dimmer Switch	
(Blank)	-	<Leviton>	IP710-LFZ
		<Lutron>	Visit www.lutron.com/advance for a list of dimmers (Mark VII) that will work with this driver.
ES566	eldoLED SOLOdrive	<Busch-Jaeger>	2112U-101
		<Jung>	240-10
		<Leviton>	IlumaTech - IP710-DLX
		<Lightoller Controls>	ZP600FAM120
		<Merten>	5729
		<Pass & Seymour>	CD4FB-W
		<Wattstopper>	DCLV1
		<Sensor Switch>	nIO EZ
		<Synergy>	ISD BC
		<ABB>	SD/S 2.16.1
		<Lutron>	Nova T: NTFTV Diva - DDTV-xx, NFTV GRAFIK Eye: GRX-TVI w GRX3503 Energy Savr Node: QSN-4T16-S TVM2 Module
		<Crestron>	GLX-DIMFLV8, GLXP-DIMFLV8, GLPAC-DIMFLV4-*, GLPAC-DIMFLV8-*, GLPP-DIMFLVEX-PM, GLPP-1DIMFLV2EX-PM, GLPP-1DIMFLV3EX-PM, DIN-AO8, DIN-4DIMFLV4, CLS-EXP-DIMFLV, CLCI-1DIMFLV2EX
LDE1	Lutron Hi-lume 1% EcoSystem	<Lutron>	PowPak Dimming Modules: RMJ-ECO32-DV-B, FCJ/FCJS-ECO ^{1,2} Energi Savr Node (120V only): QSN-1ECO-S, QSN-2ECO-S GRAFIK Eye QS/Homeworks QS control unit (120V only): QSGRJ- E(wireless) QSGR- E Quantum Hub (120V only): QP2- _2C/4C/6C/8C Homeworks QS/myRoom Plus power module (120V only): LQSE-2ECO-D
PHSR ³	Philips Xitanium Sensor-Ready	<Ilumra>	<u>Single Rocker Self-Powered Light Switch (on/off, dim-up/down)</u> Ilumra# ZBT-S1AWH Digi-Key# 1082-1033-ND <u>Dual Rocker Self-Powered Light Switch (on/off, dim-up/down, scene1,2)</u> Ilumra# ZBT-S2AWH Digi-Key# 1082-1034-ND
TDM	KEYSTONE	<Lutron>	Diva DV-600P, SkyLark S-600P, Ariadni AY-600P, Ariadni TG-603P, Maestro MA-600 (Digital), Diva CFL/LED DVCL-153P, Satin Colors DVSC-600P-SW
		<Leviton>	6641, IlumaTech IPI06-1LX, ToggleTouch TGI06-1LW (Digital)
ELV	KEYSTONE	<Lutron>	MAELV-600BL (Digital), DVELV-300P, SkyLark SELV-300P
DTO	Philips Xitanium Gen.2 Philips Xitanium Sensor-Ready	<Lutron>	Nova T: #NTSTV-DV http://www.lutron.com/TechnicalDocumentLibrary/NovaTB.pdf See page13.

NOTES:

1. All devices connected to one FCJ/FCJS-ECO will be controlled together. Devices will dim to the same level as the result of a control command. For more detail on adjusting low-end light level refer to Application Note#556 at www.lutron.com.
2. For the Line/Hot (L/H) terminal on the driver, it is preferred not to use the switched hot (red) wire from the control but rather the hot wire directly from the power source.
3. Recommended for EasySense System.

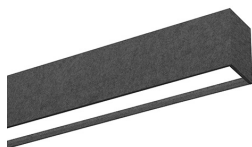
NRC COMPARISON

Frequency/Hz	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	a	NRC
0mm / 0"	0.03	0.01	0.09	0.04	0.05	0.09	0.12	0.25	0.32	0.49	0.61	0.72	0.82	0.85	0.91	0.94	0.95	0.44	0.45
50mm / 2"	0.20	0.16	0.22	0.32	0.46	0.56	0.63	0.80	0.89	1.03	1.04	0.99	1.07	1.00	0.93	0.87	0.92	0.81	0.80
150mm / 6"	0.29	0.46	0.44	0.57	0.68	0.81	0.97	0.96	0.91	1.04	0.92	0.80	0.94	0.94	0.91	0.90	0.91	0.97	0.90

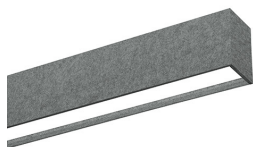


CUBE1-NRC

<STANDARD>

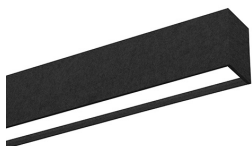


SL: SLATE



PW: PEWTER

<PREMIUM>



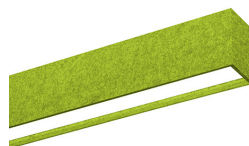
TR: TAR



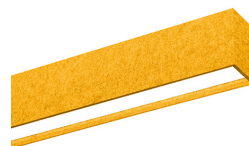
MD: MANDARIN



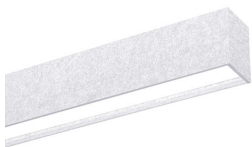
OC: OCHRE



GR: GRASS



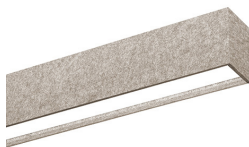
SS: SUNSHINE



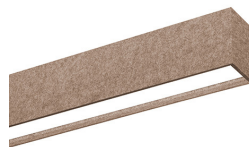
FR: FROST



IV: IVORY



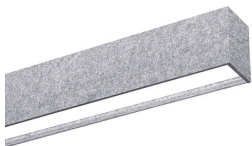
LN: LINEN



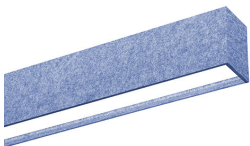
EC: ECRU



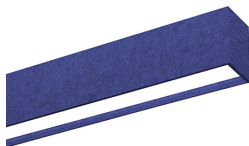
BR: BARK



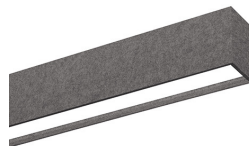
CH: CHAMBARY



SK: SKY



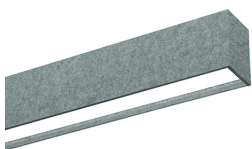
CB: COBALT



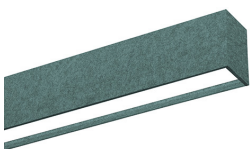
FO: FOSSIL



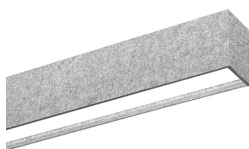
GE: GREIGE



CD: CADET



MC: MALACHITE



SM: SMOKE

1. Standard finish is free of charge
2. Premium finish with extra charge. Please contact factory for more information