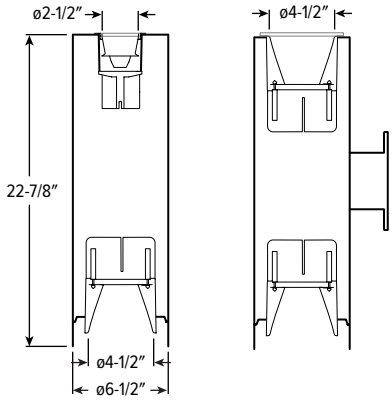
6CRDI LED
6.5″ Direct/Indirect Cylinder – Round



Cable Mount Wall Mount

CATALOG #:

TYPE:

PROJECT:

ORDERING EXAMPLE: 6CRDI - TL - 23 - L20/835U/L20/835D - OPTIONS - WHT - CONTROL/DIM - UNV - LW/LM - CS - TRIM OPTIONS - CM
(HOUSING: 6CRDI - TL - 23 - L20/835U/L20/835D - OPTIONS - WHT - CONTROL/DIM - UNV; TRIM: LW/LM - CS - TRIM OPTIONS; MOUNT.: CM)

HOUSING

SERIES
6CRDI - TL TrimLock

HEIGHT
23 23″

LUMEN PACKAGE (Example: L30/835U/L15/835D)
Specify lumen packages: **U** for Up and **D** for Down

LUMENS [3]		CRI		CCT		U OR D	
L10	1,000lm	**8**	80	**27**	2700K	**U**	Uplight
L15	1,500lm	**9**	90	**30**	3000K	**D**	Downlight
L20	2,000lm			**35**	3500K		
L30	3,000lm			**40**	4000K		
L40	4,000lm			**50**	5000K		
L50	5,000lm						
L60	6,000lm						

OPTIONS

EM/10WRM/RTS	Remote mount 10-watt emergency battery with regressed test switch [2]
RDB	Remote mount control/driver box, galvanized steel

HOUSING FINISH [1]

ALUM	Silver sparkle aluminum
BLK	Textured black
BRZ	Textured bronze
NKL	Textured nickel
SLV	Textured silver
WHT	Textured white

CONTROL
See page 4 for ADDITIONAL CONTROL/DRIVER OPTIONS.

–	None
AVI-LVFA	Avi-on wireless fixture control [4]
AWNR	Lutron Athena wireless node fixture control, RF only [5]

DRIVER
See page 4 for ADDITIONAL CONTROL/DRIVER OPTIONS.

DIM	Entire fixture switches and dims together [6]
DIM1	1% Dimming driver, 0-10V
DA	Driver with 12V auxiliary power, without external dimming wires [7]

VOLTAGE

UNV	120-277V
347	347V [8]

TRIM

TRIM TYPE AND DISTRIBUTION
(Example Uplight/Downlight: **LW/LM**)

TRIM TYPE

Uplight
- **O** Open reflector with clear glass shield [12]
- **L** Flush lens [13]

Downlight
- **O** Open reflector
- **F** Open reflector with frosted top diffuser [14]
- **L** Flush lens
- **R** Regressed lens

DISTRIBUTION
See page 2 for BEAM ANGLE.

Uplight
- **W** Wide
- **M** Medium [15]
- **N** Narrow [16]

Downlight
- **W** Wide
- **M** Medium [17]
- **N** Narrow [18]

REFLECTOR FINISH [9]

Downlight Open Trim Types

CS	Clear semi-specular anodize
SG	Satin-glow anodize
GD	Gold anodize
CG	Champagne gold anodize
PW	Pewter anodize
SPC	Clear specular anodize
RG	Rose gold anodize
WH	White texture powder coat
BL	Black texture powder coat

Downlight Lens Trim Types

CS	Clear semi-specular powder coat
WH	White texture powder coat
BL	Black texture powder coat
BZ	Bronze texture powder coat
NK	Nickel texture powder coat
SV	Silver texture powder coat
AL	Silver sparkle aluminum

TRIM OPTIONS

AD	Diffuse acrylic lens [10]
PD	Diffuse 1/8″ polycarbonate lens [11]

MOUNTING

MOUNTING TYPE [19]

CM__	Adjustable aircraft cable mount, 24″, 48″, 96″, or 144″ only, must specify. Example: 24″ cable = **CM24** [20]
WM	Wall mount

NOTES
1. See page 5 for HOUSING FINISH DETAILS.
2. Max remote distance 50′, including suspension length. Large remote box provided. EM light defaults to downlight output. Specify CEC in the option code when California Energy Commission regulations are required. See page 4 for EMERGENCY BATTERY DETAILS.
3. Lumen output based on O Trim Type, W Distribution and CS Reflector Finish, 80 CRI/3500K CCT. Actual performance may vary +/-5%. See page 2 for FIXTURE PERFORMANCE DATA.
4. DA Driver only.
5. DA Driver only. Installed in remote box, must specify RDB Option.
6. Requires 5 conductor cord.
7. Avi-on and Lutron Athena Controls only.
8. Not available with EM batteries or DA drivers.
9. Specified for downlight Trim Type only. See page 5 for REFLECTOR FINISH DETAILS.
10. Not available with O or F Trim Types. Downlight only. W Distribution only.
11. Not available with O or F Trim Types. Downlight only. W Distribution only.
12. CS Reflector Finish standard. Other colors available, consult factory.
13. Not available with WM Mounting Type. Trim finish matches Housing Finish. Other colors available, consult factory.
14. Not available with L60 lumen package.
15. O Trim Type only when specified with WM Mounting Type.
16. O Trim Type only.
17. O Trim Type only when specified with L50 or L60 lumen packages.
18. O Trim Type only when specified with L50 or L60 lumen packages.
19. See page 5 for MOUNTING DETAILS.
20. L20 lumen package max for uplight. Canopy painted white unless specified otherwise. Must specify cord. See page 5 for CORD OPTIONS.

6CRDI LED
6.5" Direct/Indirect Cylinder – Round

FEATURES

- Smoothly accent walls and eliminate dark ceilings with direct and indirect lighting
- Parallel the performance and style of the Williams downlight collection
- Superior optical control with beams as narrow as 10° and field changeable optics as wide as 65°
- Complement the architectural elements of any space with a multitude of housing, trim and cord finishes
- Precision-engineered extruded aluminum housing and die-cast aluminum trim face for clean aesthetic
- Reflectors create smooth, low-glare radiance
- Innovative TrimLock® reflector retention system ensures trim remains secure
- Low UGR meets LEED and WELL requirements
- Wireless in-fixture control solutions available
- Made Right Here® in the USA

SPECIFICATIONS

- HOUSING – Extruded aluminum with die-cast aluminum accent ring.
- FINISH – Polyester powder coat bonded to phosphate-free, multi-stage pretreated metal. All parts painted after fabrication to facilitate installation, increase efficiency, and inhibit corrosion.
- TRIMLOCK – Innovative TrimLock® reflector retention system ensures trim remains secure.
- OPEN REFLECTOR – Low-iridescent anodized aluminum. Clear semi-specular finish standard.
- LENSED TRIM – Die-cast aluminum frame with micro-prismatic lens (acrylic downlight, tempered glass uplight).
- ELECTRICAL – High-performance Class 2 C.O.B. LED array. Modular quick-connect plug for easy field-connection of LED light assembly to driver. Reported L70>55,000 hours. Reported L90>55,000 hours. Estimated L70 = 200,000 hours. 50/60 Hz constant current driver.
- MOUNTING – Cable or wall mount. Indoor applications only. Max weight 14-1/2 lbs.
- LISTINGS –
  - cCSAus conforms to UL STD 1598 and UL STD 8750. Certified to CAN/CSA STD C22.2 No. 250.0. Suitable for dry and damp locations.
  - Build America, Buy America (BABA) and Buy American Act (BAA) compliant. Request certification at hew.com/buy-american
- WARRANTY – 5-year limited warranty, see hew.com/warranty

FIXTURE PERFORMANCE DATA

		DOWNLIGHT							UPLIGHT WALL MOUNT			UPLIGHT CABLE MOUNT			
			OPEN REFLECTOR		FLUSH LENS		REGRESSED LENS			OPEN REFLECTOR			OPEN REFLECTOR		FLUSH LENS	
	DIST.	WATTAGE	DELIVERED LUMENS	EFFICACY (lm/W)	DELIVERED LUMENS	EFFICACY (lm/W)	DELIVERED LUMENS	EFFICACY (lm/W)	WATTAGE	DELIVERED LUMENS	EFFICACY (lm/W)	WATTAGE	DELIVERED LUMENS	EFFICACY (lm/W)	DELIVERED LUMENS	EFFICACY (lm/W)
L10	W	9.0	1027	114	674	75	660	73	9.0	871	97	10.6	760	72	1019	96
	M	9.0	999	111	895	99	895	99	9.0	847	94	10.6	734	69	1004	95
	N	9.0	1000	111	914	102	882	98	9.0	848	94	10.6	653	62	–	–
L15	W	13.9	1466	105	994	72	972	70	13.9	1243	89	17.5	1285	73	1723	98
	M	13.9	1471	106	1319	95	1319	95	13.9	1247	90	17.5	1241	71	1697	97
	N	13.9	1473	106	1347	97	1300	94	13.9	1249	90	17.5	1014	58	–	–
L20	W	19.8	2005	101	1352	68	1323	67	19.8	1700	86	23.2	1687	73	2263	98
	M	19.8	2002	101	1794	91	1795	91	19.8	1697	86	23.2	1630	70	2228	96
	N	19.8	2004	101	1833	93	1769	89	19.8	1699	86	23.3	1332	57	–	–
L30	W	27.8	2985	107	2022	73	1979	71	27.8	2531	91					
	M	27.8	2900	104	2683	97	2685	97	27.8	2459	88					
	N	27.8	2734	98	2741	99	2646	95	27.8	2318	83					
L40	W	38.0	3979	105	2695	71	2638	69	38.0	3373	89					
	M	38.0	3865	102	3577	94	3579	94	38.0	3277	86					
	N	38.0	3644	96	3654	96	3527	93	38.0	3089	81					
L50	W	45.2	5124	113	3364	74	3292	73	45.2	4344	96					
	M	45.2	4956	110	–	–	–	–	45.2	4202	93					
	N	45.2	4818	107	–	–	–	–	45.2	4085	90					
L60	W	50.4	6041	120	4074	81	3986	79	50.4	5409	107					
	M	50.4	5842	116	–	–	–	–	50.4	5230	104					
	N	50.4	5679	113	–	–	–	–	50.4	5083	101					

- Photometrics tested in accordance with IESNA LM-79. Results based on CS (O Trim Type) or WH (L and R Trim Types) Reflector Finish, W Distribution, for Up and Down components, 80 CRI/3500K CCT, average wattage for 120V input, and 25°C ambient temperature. Actual performance may vary +/-5%.
- Wattage is for downlight or uplight components. Add wattages together for selected lumen packages to find total fixture wattage.
- To calculate lumen output in emergency mode, multiply the battery wattage by the efficacy.
- Use multiplier tables to calculate additional options.

MULTIPLIER TABLES

	COLOR TEMPERATURE	
	CCT	CONVERSION FACTOR
80 CRI	2700K	0.92
	3000K	0.98
	3500K	1.00
	4000K	1.01
	5000K	1.02
90 CRI	2700K	0.76
	3000K	0.79
	3500K	0.82
	4000K	0.84
	5000K	0.88

	REFLECTOR FINISH	
	CATALOG NUMBER	CONVERSION FACTOR
O TRIM	CS	1.00
	SG [1]	0.92
	GD	0.93
	CG	0.96
	PW	0.86
	SPC	1.02
	RG	0.88
	WH [1]	0.89
	BL [1]	0.47
R TRIM	WH	1.00
	CS [1]	0.98
	BL [1]	0.79
	BZ [1]	0.76
	NK [1]	0.81
	SV [1]	0.81
	AL [1]	0.86

TRIM OPTIONS	
CATALOG NUMBER	CONVERSION FACTOR
F	0.75
AD	0.85
PD	0.85

1 Distribution will also be affected, consult factory.
2 Beam angle based on CS or WH Reflector Finish.

BEAM ANGLE

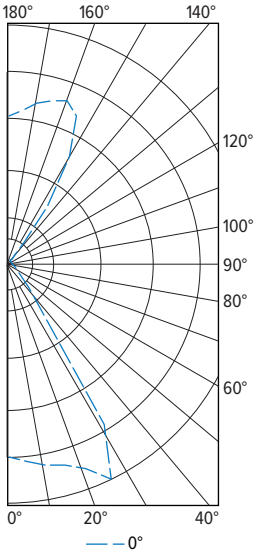
	TRIM TYPE [2]						
	DOWNLIGHT				WM UPLIGHT	CM UPLIGHT	
	O	F	L	R	O	O	L
W	65°	60°	50°	50°	65°	70°	50°
M	45°	50°	35°	30°	45°	40°	30°
N	10°	25°	25°	25°	10°	15°	20°

PHOTOMETRY CONTINUED ON NEXT PAGE.

6CRDI LED
6.5″ Direct/Indirect Cylinder – Round

PHOTOMETRY

6CRDI-TL-23-L20/835U/L20/835D-DIM-UNV-OW/OW-CS-WM Total Luminaire Output: 3820 lumens; 38.8 Watts | Efficacy: 98 lm/W | 80 CRI; 3500K CCT



CANDLEPOWER DISTRIBUTION

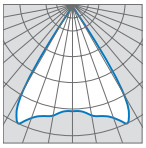
VERTICAL ANGLE	HORIZONTAL ANGLE 0°	ZONAL LUMENS
0	1810	
5	1864	179
15	1960	560
25	2231	952
35	307	367
45	44	37
55	11	11
65	1	2
75	0	0
85	0	1
90	3	
95	4	4
105	5	6
115	9	9
125	18	18
135	58	68
145	608	391
155	1474	647
165	1528	433
175	1389	135
180	1333	

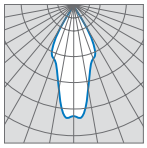
LUMEN SUMMARY

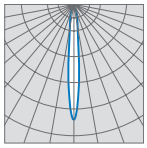
ZONE	LUMENS	% FIXTURE
0 - 30	1692	44
0 - 40	2059	54
0 - 60	2107	55
0 - 90	2110	55
90 - 120	19	1
90 - 150	496	13
90 - 180	1710	45
0 - 180	3820	100

DOWNLIGHT

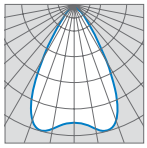
OPEN (O)

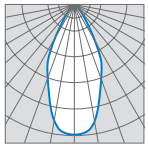

65° Wide

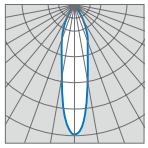

45° Medium


10° Narrow

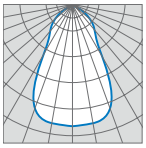
OPEN TOP DIFFUSER (F)

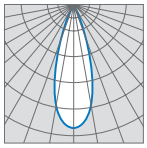

60° Wide

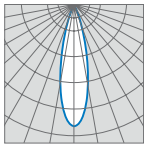

50° Medium


25° Narrow

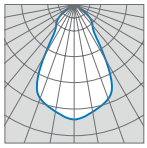
FLUSH (L)

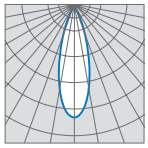

50° Wide

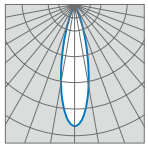

35° Medium


25° Narrow

REGRESSED (R)

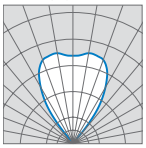

50° Wide

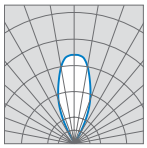

30° Medium

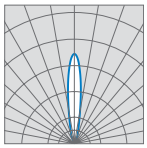

25° Narrow

UPLIGHT CABLE MOUNT

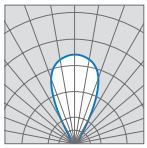
OPEN (O)

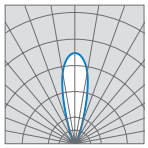

70° Wide

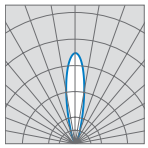

40° Medium


15° Narrow

FLUSH (L)


50° Wide


30° Medium


20° Narrow

SEE NEXT PAGE FOR ADDITIONAL CONTROL/DRIVER OPTIONS.

6CRDI LED
6.5″ Direct/Indirect Cylinder – Round

ADDITIONAL CONTROL/DRIVER OPTIONS

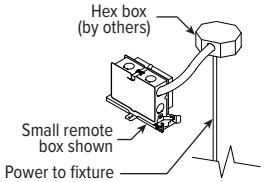
Lumen restrictions apply: L50 max for DALI driver, L40 max for DMX and LDE1 drivers. 347V only available with DIM and DIM1 drivers. L15 min for DIM LINE driver when specified downlight wall mount or uplight.

CONTROL/DRIVER	DESCRIPTION	RDB DETAILS BY LUMEN STOP [1]							
		L10	L15	L20	L30	L40	L50	L60	w/EM
DIM	Dimming driver prewired for 0-10V low voltage applications; entire fixture switches and dims together	O | S	O | S	O | S	O | S	O | L	O | L	O | L	R | L
DIMU/DIMD	Dimming driver prewired for 0-10V low voltage applications; up and down portions switch and dim separately	O | S	O | S	O | S	O | S	O | L	O | L	O | L	R | L
DIM1	1% dimming driver prewired for 0-10V low voltage applications	O | S	O | S	O | S	O | S	O | L	O | L	O | L	R | L
DIM1U/DIM1D	1% dimming driver prewired for 0-10V low voltage applications; up and down portions switch separately	O | S	O | S	O | S	O | S	O | L	O | L	O | L	R | L
DIM LINE	Line voltage dimming driver (TRIAC and ELV compatible, 120V only)	—	O | S	O | S	O | S	O | L	O | L	O | L	R | L
DIM LINEU/DIM LINED	Line voltage switching and line voltage dimming; up and down portions switch separately	—	O | S	O | S	O | S	O | L	O | L	O | L	R | L
DMX	0.1% dimming driver for DMX controls	R | L	R | L	R | L	R | L	R | L	—	—	R | L
DMX/DMX	0.1% dimming driver for DMX controls; up and down portions switch separately	R | L	R | L	R | L	R | L	R | L	—	—	R | L
DALI	DALI dimming driver	O | L	O | L	O | L	O | L	O | L	O | L	—	R | L
DALI/DALI	DALI dimming driver; up and down portions switch separately	O | L	O | L	O | L	O | L	O | L	O | L	—	R | L
LDE1	Lutron Hi-lume 1% EcoSystem dimming LED driver	O | L	O | L	O | L	O | L	O | L	—	—	R | L
LDE1/LDE1	Lutron Hi-lume 1% EcoSystem dimming LED driver; up and down portions switch separately	O | L	O | L	O | L	O | L	O | L	—	—	R | L
AVI-LVFA/DA	Avi-on wireless fixture control for use with driver with 12V auxiliary power. Up and down switch together.	O | L	O | L	O | L	O | L	O | L	O | L	O | L	R | L
AVI-LVFA/DA-U/D	Avi-on wireless fixture control for use with driver with 12V auxiliary power. Up and down switch separately.	O | L	O | L	O | L	O | L	O | L	O | L	O | L	R | L
AWNR/DA	Lutron Athena wireless node fixture control, RF only, for use with driver with 12V auxiliary power. Up and down switch together.	R | S	R | S	R | S	R | S	R | L	R | L	R | L	R | L
AWNR/DA-U/D	Lutron Athena wireless node fixture control, RF only, for use with driver with 12V auxiliary power. Up and down switch separately.	R | S	R | S	R | S	R | S	R | L	R | L	R | L	R | L

[1] If using two different stops for U/D, see highest lumen stop for RDB.

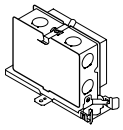
REMOTE MOUNT DETAILS

Max remote distance is 50′, connection by others. Must be room-side accessible for maintenance.



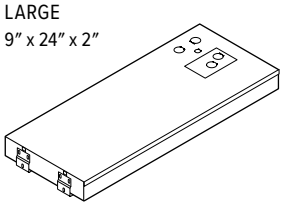
SMALL

Snap-in junction box
6-1/2″ x 3″ x 4-1/2″



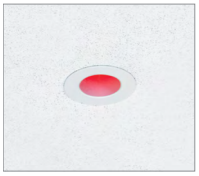
LARGE

9″ x 24″ x 2″



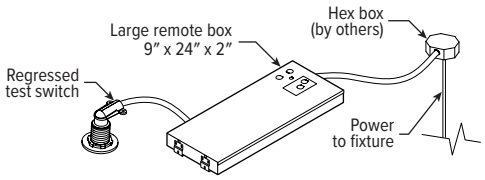
REMOTE MOUNT KEY	
R | S	RDB Required, Small Box
O | S	RDB Optional, Small Box
R | L	RDB Required, Large Box
O | L	RDB Optional, Large Box

EMERGENCY BATTERY DETAILS



Regressed test switch
ø1-3/4″

Max remote distance is 50′ including suspension length, connection by others.



TRIMLOCK DETAILS

TWIST

PULL

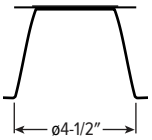
RELEASE

6CRDI LED
6.5″ Direct/Indirect Cylinder – Round

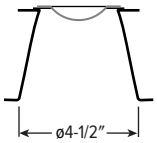
TRIM TYPE DETAILS

DOWNLIGHT

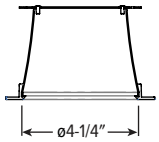
OPEN



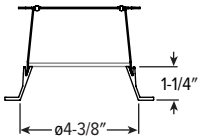
OPEN TOP DIFFUSER



FLUSH

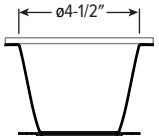


REGRESSED



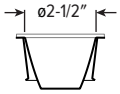
UPLIGHT WALL MOUNT

OPEN



UPLIGHT CABLE MOUNT

OPEN



FLUSH

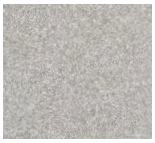
HOUSING FINISH DETAILS

WHITE

BLACK

BRONZE

NICKEL



SILVER

ALUM

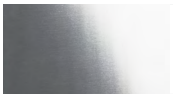
RAL#____

For custom color, please specify RAL code or a manufacturer code with description. All custom colors other than RAL require four sample swatches, minimum 1″ square.

REFLECTOR FINISH DETAILS

Smooth Finish

SPC



SG

PW

GD

CG

RG

CS

AL

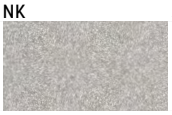
Textured Finish

WH

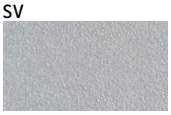
BL

BZ

NK

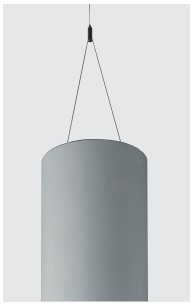


SV



MOUNTING DETAILS

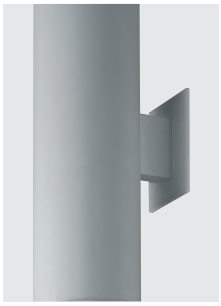
CABLE MOUNT (CM__)



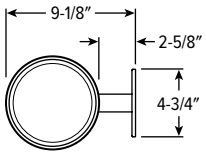
Provided with:

- Adjustable length aircraft cable, must specify length in 24″, 48″, 96″, or 144″ inches.
- 18-gauge cord, see Cord Options for ordering info.
- One 5″ canopy
- T-bar clip with 1/4-20 stud
- Hard ceiling anchor provided by others

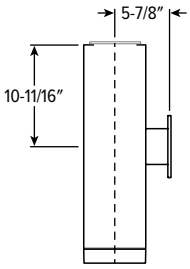
WALL MOUNT (WM)



TOP VIEW

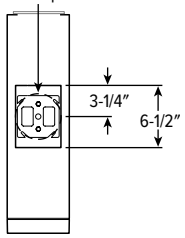


SIDE VIEW



BACK VIEW

ø4-3/4″ Bolt circle mounts to 4″ square J-box



CORD OPTIONS

Must specify cord when cable mounting.

ORDERING EXAMPLE: S2438/W				
CORD TYPE	LENGTH	# CONDUCTORS	WIRE SIZE	COLOR
S Straight	**24** 24″ **48** 48″ **96** 96″	**3** 3 **4** 4 **5** 5 **6** 6	**8** 18-gauge	**Standard** **/W** White **/B** Black **Braided** [1] **/WH** White **/BL** Black **/BR** Brass **/AE** Aegean Blue **/RE** Red **/SV** Silver **/GU** Gunmetal **/NK** Nickel **/GR** Gray

[1] (5) conductors cord only.

COLOR DETAILS

Additional colors may be available, consult factory.

White

Black

Brass

Aegean Blue

Red

Silver

Gunmetal

Nickel

Gray