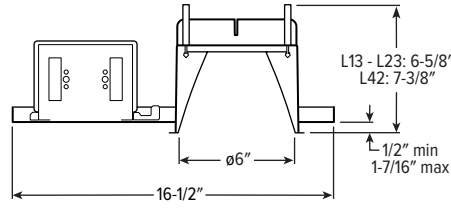


6DR tunable WHITE 6" Downlight – Round



CATALOG #: _____

TYPE: _____

PROJECT: _____

NEW CONSTRUCTION AND REMODEL

FEATURES

TrimLock®

- Innovative TrimLock reflector retention system ensures trim remains flush with ceiling plane
- Tunable white from 2700K to 5000K CCT, minimum 80 CRI
- Die cast trim choices include flush, regressed or angled lens
- Contemporary design provides glare-free illumination for a soft ceiling appearance
- Industry-leading efficacies as high as 98 lm/W

SPECIFICATIONS

- HOUSING** – Die-cast aluminum trim housing with forged aluminum heat sink. Galvanized steel splice compartment with driver mounting plate/enclosure. Swing-out mounting arms adjust for ceiling thickness from 1/2" - 1-7/16" (see options for additional ceiling thicknesses).
- TRIMLOCK** – Innovative TrimLock reflector retention system ensures the trim remains flush with the ceiling plane.
- OPEN REFLECTOR** – Low-iridescent anodized aluminum. Clear semi-specular finish standard.
- LENSED TRIM** – Die-cast aluminum frame with micro-prismatic, tempered glass lens.
- ELECTRICAL** – High-performance Class 2 LED array. Modular quick-connect plug for easy field-connection of LED light assembly to driver. Reported L70>50,000 hours. Tunable White products use LEDs of multiple CCTs and may produce a perceptibly different shade of white from single-CCT products at the same CCT. All CCTs are within 3 MacAdam ellipses.
- MOUNTING** – Recessed. 20 ga. galvanized steel mounting pan for new construction or IC-rated enclosure. Remodel kit option includes receiver bracket hardware. Minimum 24" O.C. marked spacing required for L42 lumen package.
- LISTINGS** –
 - cCSAus conforms to UL STD 1598; Certified to CAN/CSA STD C22.2 No. 250.0 for damp locations. LED light assembly conforms to UL 2108 for remote installation.
 - Suitable for wet location under covered ceiling when specified with WET/CC or TD options.
 - IC-rated for direct contact with insulation when specified with I Mounting Type.
 - City of Chicago Environmental Air approved when specified with CP option.
 - Complies with ASTM-E283 when specified with ATH option.
 - RoHS compliant.
- WARRANTY** – 5-year limited warranty, see hew.com/warranty.

ORDERING EXAMPLE: **6DR - TL - L13/8TW - OPTIONS - DIM - UNV - OW - OF - CS - TRIM OPTIONS - N - F1**

HOUSING

SERIES	LUMENS ⁽¹⁾	COLOR	OPTIONS	CONTROL	VOLTAGE
6DR-TL	L13 1,300lm	8TW Tunable white (80 CRI, 2700K-5000K)	SCA_ Sloped ceiling adapter ⁽²⁾	DALI Driver prewired for DALI applications	UNV 120-277V
TrimLock	L23 2,300lm		ATH Airtight construction	DIM Dimming driver with (1) 0-10V signal to control dimming and (1) 0-10V signal to control CCT	
	L42 4,200lm		CP Chicago plenum (CCEA) ⁽³⁾	DMX Driver prewired for DMX applications	
			EM/7W 7-watt emergency battery ⁽⁴⁾		
			EM/10W 10-watt emergency battery ⁽⁵⁾		
			EM/10W/RTS 10-watt emergency battery with regressed test switch ⁽⁶⁾		
			F Fuse kit		
			TC Adjustable mounting arms for 1-1/2" – 2-1/4" thick ceilings		

TRIM ⁽⁷⁾

TRIM TYPE	DISTRIBUTION ⁽⁸⁾	FLANGE TYPE	REFLECTOR FINISH	TRIM OPTIONS
O Open reflector	W Wide	OF 1/2" standard flange	Open trim types	MWT Textured white trim flange ⁽¹⁵⁾
L Flush lens	65° Open	SF 1/4" mud-in flange ⁽¹⁴⁾	CS Clear semi-specular anodize	IP IP65 rated trim ⁽¹⁶⁾
R Regressed lens	55° Flush		SG Satin-glow anodize	AD Diffuse acrylic lens ⁽¹⁷⁾
A Angled lens ⁽⁹⁾	55° Regressed		GD Gold anodize	PD Diffuse 1/8" polycarbonate lens ⁽¹⁸⁾
S Non-conductive flush lens for shower applications ⁽¹⁰⁾	M Medium ⁽¹¹⁾		CG Champagne gold anodize	TD Diffuse polycarbonate lens media at top of open reflector ⁽¹⁹⁾
	35° Open		PW Pewter anodize	WET/CC Wet location, covered ceiling listed
	35° Flush		SPC Clear specular anodize	AM Anti-microbial ⁽²⁰⁾
	35° Regressed		RG Rose gold anodize	
	N Narrow ⁽¹²⁾		Lens trim types	
	10° Open		CS Clear semi-specular powder coat	
	25° Flush		WH White texture powder coat	
	25° Regressed		BL Black texture powder coat	
	WW Wall wash ⁽¹³⁾		MB Black texture splay with white flange ⁽²¹⁾	

MOUNTING

MOUNTING TYPE ⁽²²⁾

- N** Open pan for new construction
- I** IC-rated enclosure for new construction ⁽²⁴⁾
- R** Remodel kit ⁽²⁵⁾

MOUNTING HARDWARE ⁽²³⁾

- F1** Integral 2-position fixed pan bracket, universal bar hanger included ⁽²⁶⁾
- BA1** Adjustable butterfly pan bracket, bar hanger not included ⁽²⁷⁾
- CA1** Adjustable caterpillar pan bracket, universal bar hanger included ⁽²⁸⁾

NOTES

- Lumen output based on O trim type, W distribution and CS finish, 4000K/80CRI. Actual lumens may vary +/-5%. See page 2 for FIXTURE PERFORMANCE DATA.
- 11-1/2" aperture, specify degrees of slope in 5° increments, 05°-30°. See page 4 for SLOPED CEILING ADAPTOR DETAILS. Not available with ATH or TC options. N Mounting Type only. Not available with WET/CC.
- I Mounting Type required.
- N and R Mounting Types only.
- N and R Mounting Types only.
- Not available with WET/CC, ATH or IP options. N and R Mounting Types only. See page 5 for EM/10W/RTS DETAILS.
- Trim ships separately.
- Beam angle based on CS or WH reflector finish.
- Available with WW Distribution only.
- W Distribution, OF Flange Type, WH Reflector Finish only. Standard with AD diffuse acrylic lens. IP and WET/CC options standard.
- Not available with lumen stop L42 when specified with flush or regressed trim types.
- Not available with lumen stop L42 when specified with flush or regressed trim types. O and A Trim Types only.
- For use with mud-in plaster construction only, supplied with mud flange installation kit. See page 4 for FLANGE TYPE DETAILS. Not available with ATH or IP options.
- Not available with WH Reflector Finish, L or S Trim Types.
- L and R trim types only.
- Not available with O trim type. W distribution only.
- Not available with O trim type. W distribution only.
- O Trim Type only. WET/CC standard.
- WH and BL Reflector Finishes only. Not available with S Trim Type.
- R Trim Type only.
- Mounting hardware required (N and I only), ordered separately, see MOUNTING HARDWARE ordering info. See page 4 for MOUNTING TYPE DETAILS.
- Additional mounting hardware options available. SEE PAGE 5 FOR MOUNTING HARDWARE DETAILS.
- L23 lumen package max.
- Also used in new construction sheetrock ceilings.
- N and I Mounting Types only.
- N Mounting Type only.
- N Mounting Type only.



6DR tunable WHITE 6" Downlight – Round

FIXTURE PERFORMANCE DATA

OPEN REFLECTOR TRIM TYPE

	DIST.	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
L13	W	1320	14.6	90.4
	M	1317	14.6	90.2
	N	1345	14.6	92.1
L23	W	2357	24.0	98.0
	M	2285	24.0	95.0
	N	2187	24.0	90.9
L42	W	4304	44.9	96.0
	M	4173	44.9	93.0
	N	3994	44.9	89.0

FLUSH LENS TRIM TYPE

	DIST.	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
L13	W	1135	14.6	78.0
	M	1220	14.6	83.6
	N	1231	14.6	84.5
L23	W	1964	24.0	81.7
	M	2117	24.0	88.0
	N	2129	24.0	88.5
L42	W	3596	44.9	80.2
	M	-	-	-
	N	-	-	-

REGRESSED LENS TRIM TYPE

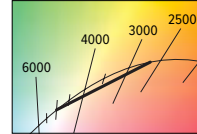
	DIST.	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
L13	W	1098	14.6	75.5
	M	1183	14.6	81.0
	N	1199	14.6	82.4
L23	W	1900	24.0	79.0
	M	2059	24.0	85.6
	N	2075	24.0	86.3
L42	W	3480	44.9	77.6
	M	-	-	-
	N	-	-	-

MULTIPLIER TABLES

COLOR TEMPERATURE		
CCT	LUMENS	WATTS
2700K	0.83	1.03
3000K	1.00	1.00
3500K	0.99	0.99
4000K	1.00	1.00
5000K	0.98	1.03

	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	0.98
	BL	0.79

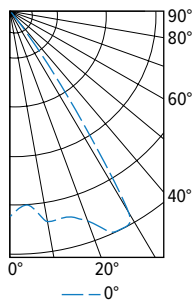
TRIM	
CATALOG NUMBER	CONVERSION FACTOR
S	0.85
AD	0.85
PD	0.85
TD	0.75
WET/CC ²	0.85



- Distribution will also be affected, consult factory.
- Use multiplier when specified with O Trim Type.
 - Photometrics tested in accordance with IESNA LM-79. Results shown are based on 25°C ambient temperature.
 - Wattage shown is based on 120V input.
 - Results based on 4000K, 80 CRI, actual lumens may vary +/-5%
 - Use multiplier tables to calculate additional options.

PHOTOMETRY

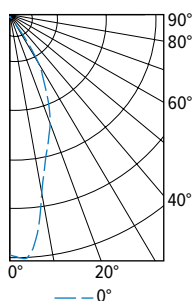
6DR-TL-L13/8TW-DIM-UNV-OW-OF-CS Total Luminaire Output: 1320 lumens; 14.6 Watts | Efficacy: 90.4 lm/W | 80.0 CRI; 4037K CCT



	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
CANDLEPOWER DISTRIBUTION	0	1110	
	5	1049	100
	15	1152	327
	25	1316	609
	35	401	252
	45	31	24
	55	9	8
	65	1	1
	75	0	0
	85	0	0
	90	0	0

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	1288	98
0 - 60	1320	100	
0 - 90	1320	100	
0 - 180	1320	100	

6DR-TL-L13/8TW-DIM-UNV-OM-OF-CS Total Luminaire Output: 1317 lumens; 14.6 Watts | Efficacy: 90.2 lm/W | 80.0 CRI; 4037K CCT



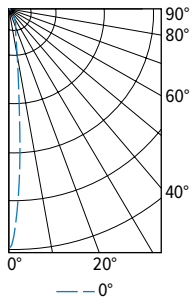
	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
CANDLEPOWER DISTRIBUTION	0	2665	
	5	2637	230
	15	1544	435
	25	938	430
	35	263	182
	45	31	27
	55	9	9
	65	3	3
	75	1	1
	85	0	0
	90	0	0

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	1277	97
0 - 60	1313	100	
0 - 90	1317	100	
0 - 180	1317	100	



6DR tunable WHITE 6" Downlight – Round

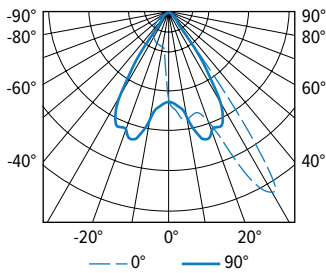
6DR-TL-L13/8TW-DIM-UNV-ON-OF-CS Total Luminaire Output: 1345 lumens; 14.6 Watts | Efficacy: 92.1 lm/W | 80.0 CRI; 4037K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
	0	14608	
	5	6527	499
	15	1349	394
	25	678	322
	35	161	118
	45	9	7
	55	3	3
	65	1	1
	75	0	0
	85	0	0
	90	0	0

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	1334	99
	0 - 60	1344	100
	0 - 90	1345	100
	0 - 180	1345	100

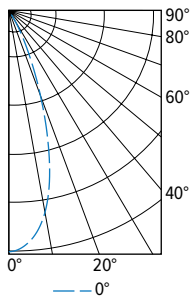
6DR-TL-L13/8TW-DIM-UNV-OWW-OF-CS Total Luminaire Output: 670 lumens; 14.6 Watts | Efficacy: 45.9 lm/W | 80.0 CRI; 4037K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE					ZONAL LUMENS
		0°	45°	90°	135°	180°	
	0	513	513	513	513	513	
	5	580	560	534	328	268	44
	15	592	579	749	183	194	124
	25	1031	614	698	159	182	226
	35	358	266	249	137	156	140
	45	28	24	58	110	123	52
	55	14	14	36	77	81	39
	65	11	10	21	46	48	27
	75	4	3	10	26	26	15
	85	0	0	2	7	5	4
	90	0	0	0	0	0	0

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	534	80
	0 - 60	625	93
	0 - 90	670	100
	0 - 180	670	100

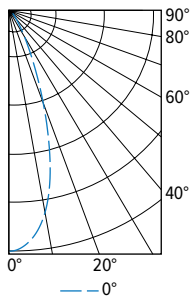
6DR-TL-L13/8TW-DIM-UNV-LM-OF-WH Total Luminaire Output: 1220 lumens; 14.6 Watts | Efficacy: 83.6 lm/W | 80.0 CRI; 4037K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
	0	2880	
	5	2768	254
	15	1811	487
	25	562	268
	35	147	98
	45	59	47
	55	35	32
	65	21	21
	75	10	11
	85	2	3
	90	0	0

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	1107	91
	0 - 60	1185	97
	0 - 90	1220	100
	0 - 180	1220	100

6DR-TL-L13/8TW-DIM-UNV-RM-OF-WH Total Luminaire Output: 1183 lumens; 14.6 Watts | Efficacy: 81.0 lm/W | 80.0 CRI; 4037K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
	0	2864	
	5	2743	251
	15	1772	477
	25	562	267
	35	149	98
	45	50	41
	55	27	25
	65	15	15
	75	6	7
	85	2	2
	90	0	0

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	1094	92
	0 - 60	1159	98
	0 - 90	1183	100
	0 - 180	1183	100

TRIMLOCK DETAILS

TWIST



PULL

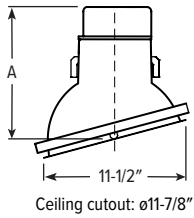


RELEASE



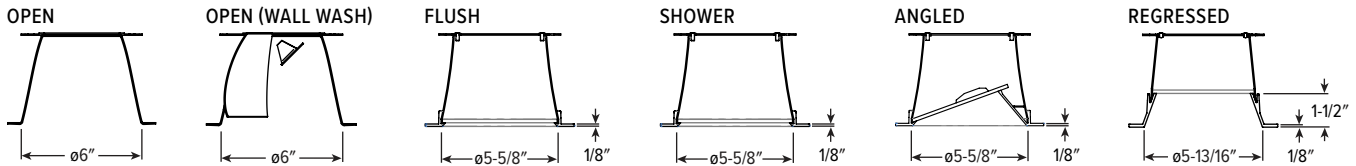
6DR tunable **WHITE** 6" Downlight – Round

SLOPED CEILING ADAPTOR DETAILS

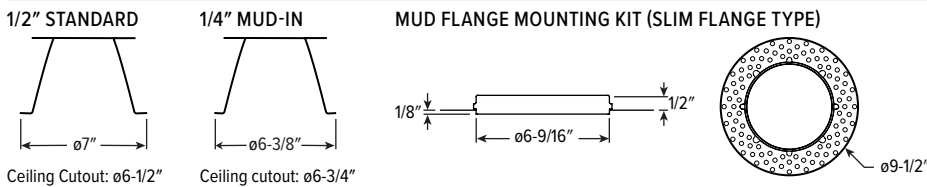


LUMENS	A (HEIGHT)						PLENUM HEIGHT
	5°	10°	15°	20°	25°	30°	
L13 - L23	10-11/16"	10-7/8"	10-15/16"	10-7/8"	10-13/16"	10-5/8"	11-1/4"
L42	11-7/16"	11-9/16"	11-5/8"	11-5/8"	11-1/2"	11-1/4"	12"

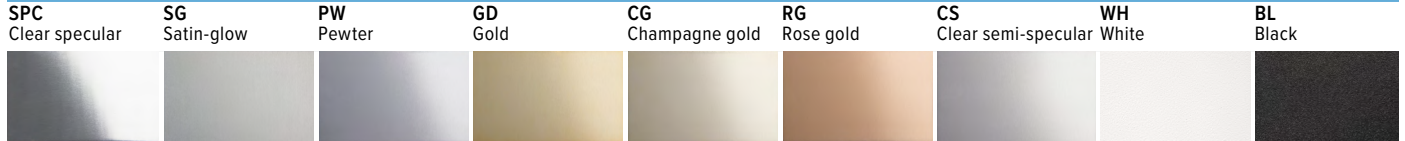
TRIM TYPE DETAILS



FLANGE TYPE DETAILS

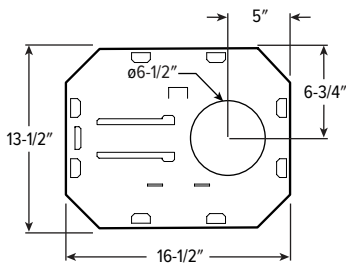


REFLECTOR FINISH DETAILS

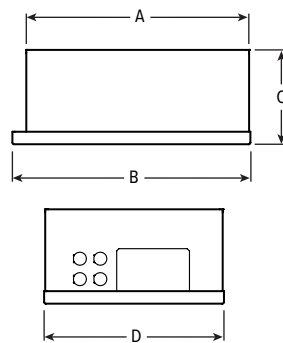


MOUNTING TYPE DETAILS

NEW CONSTRUCTION

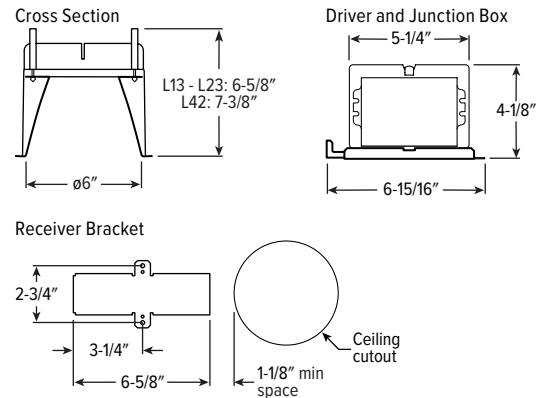


IC-RATED



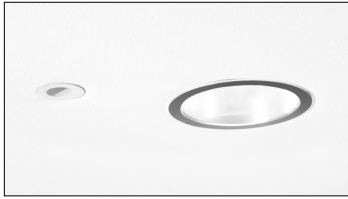
LUMENS	LENGTH			
	A	B	C	D
L13	15-3/16"	16"	6-3/8"	12-1/8"
L23	16-5/8"	17-1/2"	7-7/8"	14"

REMODEL

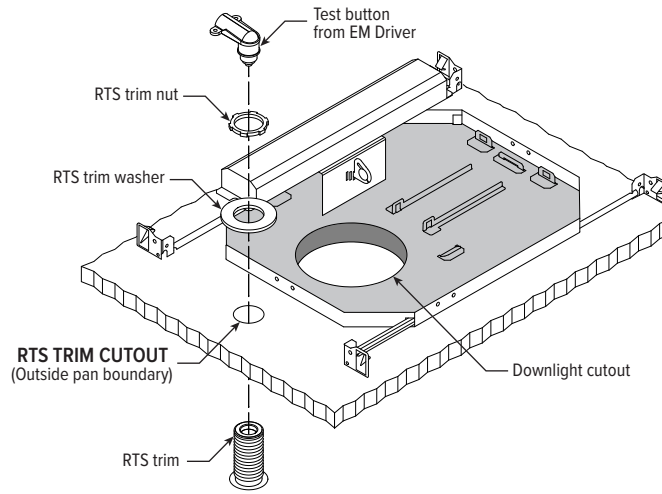


6DR tunable WHITE 6" Downlight – Round

EM/10W/RTS DETAILS

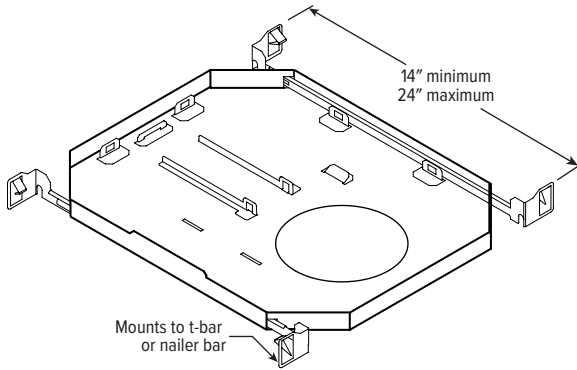


Shown Installed

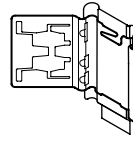


MOUNTING HARDWARE DETAILS

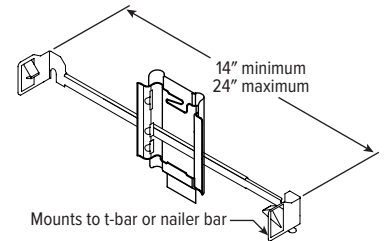
F1 Integral 2-position fixed pan bracket, universal bar hanger included



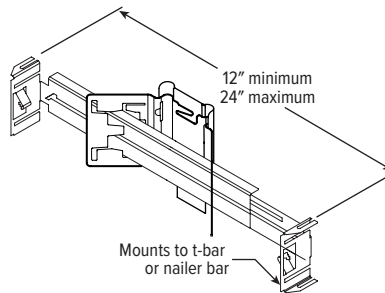
BA1 Adjustable butterfly pan bracket, bar hanger not included (N Mounting Type only)



CA1 Adjustable caterpillar pan bracket, universal bar hanger included (N Mounting Type only)



BA2 Adjustable butterfly pan bracket, heavy-duty universal bar hanger included (N Mounting Type only)



CA2 Adjustable caterpillar pan bracket, t-bar hanger included (N Mounting Type only)

