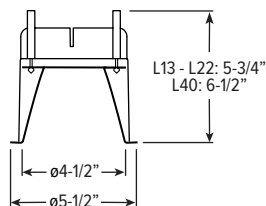


4DR tunable WHITE 4.5" Downlight – Round



CATALOG #: _____

TYPE: _____

PROJECT: _____

NEW CONSTRUCTION AND REMODEL

FEATURES

TrimLock™

- Williams TrimLock reflector retention system eliminates trim sag
- Tunable white from 2700K to 5000K CCT, minimum 80 CRI
- Beam angles ranging from 10° narrow to 65° wide for tailored performance
- Die cast trim choices include flush, regressed or angled lens
- Fully room-side accessible

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 C.O.B. 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. Marked spacing required for L40 lumen package, consult factory.
- 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 option.
 - 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:^[1] 4DR - TL - L13/8TW - OPTIONS - DIM - UNV - OW - OF - CS - TRIM OPTIONS - N - F1
_____ HOUSING _____ TRIM _____ MOUNT.

HOUSING

SERIES	LUMENS ^[2]	COLOR	OPTIONS	CONTROL	VOLTAGE
4DR-TL	L13 1,300lm	8TW Tunable white (80 CRI, 2700K-5000K)	EM/10W 10-watt emergency battery ^[3]	DALI Driver prewired for DALI applications	UNV 120-277V
TrimLock	L22 2,200lm L40 4,000lm		EM/10W/ITS 10-watt emergency battery with integral test switch ^[4]	DIM Dimming driver with (1) 0-10V signal to control dimming and (1) 0-10V signal to control CCT	347 347V ^[7]
			SCA__ Sloped ceiling adapter ^[5]		
			ATH Airtight construction		
			CP Chicago plenum (CCEA) ^[6]	DMX Driver prewired for DMX applications	
			F Fuse kit		
			SDT Stepdown transformer ^[8]		
			TC Adjustable mounting arms for 1-1/2" – 2-1/4" thick ceilings		

TRIM

TRIM TYPE	DISTRIBUTION ^[9]	FLANGE TYPE	REFLECTOR FINISH	TRIM OPTIONS
O Open reflector	W Wide	OF 1/2" standard flange	Open trim types	MWT Textured white trim flange ^[14]
L Flush lens	65° Open	SF 1/4" mud-in flange ^[13]	CS Clear semi-specular anodize	MB Regressed lens trim with texture black splay and white flange ^[15]
R Regressed lens	50° Flush		SG Satin-glow anodize	IP IP65 rated trim ^[16]
A Angled lens ^[10]	50° Regressed		GD Gold anodize	AD Diffuse acrylic lens ^[17]
S Non-conductive flush lens for shower applications ^[11]	M Medium		CG Champagne gold anodize	WET/CC Wet location, covered ceiling listed ^[18]
	45° Open		PW Pewter anodize	
	35° Flush		SPC Clear specular anodize	
	30° Regressed		RG Rose gold anodize	
	N Narrow		WH White texture powder coat	
	10° Open		BL Black texture powder coat	
	25° Flush			
	25° Regressed			
	WW Wall wash ^[12]			
			Lens trim types	
			WH White texture powder coat	
			BL Black texture powder coat	

MOUNTING

MOUNTING TYPE ^[19]	MOUNTING HARDWARE ^[20]
N Open pan for new construction	F1 2-Position fixed pan bracket, universal bar hanger included
I IC-rated enclosure for new construction ^[21]	F2 2-Position fixed pan bracket, t-bar bar hanger included
R Remodel kit ^[22]	

NOTES

- Housing, trim, and mounting ship separately.
- 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.
- N Mounting Type only.
- Not available with WET/CC. N Mounting Type and O Trim Type only, requires alternate construction and trim retention, see page 5 for MOUNTING TYPE DETAILS.
- 9" aperture, specify degrees of slope in 5° increments, 05°-30°, see page 4 for SLOPED CEILING ADAPTOR DETAILS. N Mounting Type only.
- I Mounting Type required
- Not available with EM batteries
- May be required for 347V, see product builder at hew.com.
- Beam angle based on CS or WH reflector finish.
- Available with WW Distribution only.
- W Distribution, OF Flange Type, WH Reflector Finish only. Only available with AD diffuse acrylic lens, standard. IP and WET/CC options standard.
- 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 CP, ATH or IP options.
- O Trim Type and OF Flange Type only. Not available with WH Reflector Finish.
- R Trim Type only.
- L and R Trim Types only.
- L and R Trim Types only. Wide distribution only.
- WET/CC option reduces lumen output, consult factory.
- Mounting hardware required (N and I only), ordered separately, see MOUNTING HARDWARE ordering info. See page 4 for MOUNTING TYPE DETAILS.
- Specify for N and I Mounting Types only. See page 5 for additional MOUNTING HARDWARE.
- L22 lumen package max.
- Also used in new construction sheetrock ceilings.



4DR tunable WHITE

4.5" Downlight – Round

FIXTURE PERFORMANCE DATA

OPEN REFLECTOR TRIM TYPE

LED PACKAGE	DISTRIBUTION	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
L13	W	1277	14.6	87.5
	M	1281	14.6	87.7
	N	1283	14.6	87.9
L22	W	2289	24.0	95.2
	M	2198	24.0	91.4
	N	2097	24.0	87.2
L40	W	4644	46.7	99.4
	M	4491	46.7	96.1
	N	4366	46.7	93.4

FLUSH LENS TRIM TYPE

LED PACKAGE	DISTRIBUTION	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
L13	W	1029	14.6	70.7
	M	1148	14.6	78.6
	N	1175	14.6	80.7
L22	W	1781	24.0	74.0
	M	2020	24.0	84.0
	N	2033	24.0	84.5
L40	W	3773	46.7	80.7
	M	4025	46.7	86.1
	N	3994	46.7	85.5

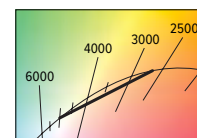
REGRESSED LENS TRIM TYPE

LED PACKAGE	DISTRIBUTION	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
L13	W	1040	14.6	71.4
	M	1149	14.6	78.7
	N	1181	14.6	81.1
L22	W	1799	24.0	74.8
	M	2026	24.0	84.3
	N	2043	24.0	84.9
L40	W	3810	46.7	81.5
	M	4027	46.7	86.2
	N	3854	46.7	82.5

MULTIPLIER TABLE

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

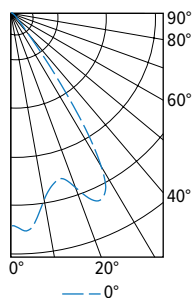
OPEN REFLECTOR FINISH		
CATALOG NUMBER	REFLECTOR FINISH	CONVERSION FACTOR
CS	Clear semi-specular	1.00
SG	Satin-glow	0.92
GD	Gold	0.93
CG	Champagne Gold	0.96
PW	Pewter	0.86
SPC	Specular	1.02
RG	Rose Gold	0.88
WH	White, textured	0.89
BL	Black, textured	0.79



- 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

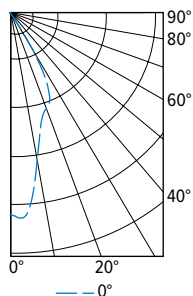
4DR-TL-L13/8TW-DIM-UNV-OW-OF-CS Total Luminaire Output: 1277 lumens; 14.6 Watts | Efficacy: 87.5 lm/W | 80.0 CRI; 4037K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
	0	1386	
	5	1402	126
	15	1117	329
	25	1313	572
	35	241	206
	45	36	30
	55	11	10
	65	3	3
	75	1	1
	85	0	0
	90	0	0

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	1233	97
	0 - 60	1273	100
	0 - 90	1277	100
	0-180	1277	100

4DR-TL-L13/8TW-DIM-UNV-OM-OF-CS Total Luminaire Output: 1281 lumens; 14.6 Watts | Efficacy: 87.7 lm/W | 80.0 CRI; 4037K CCT



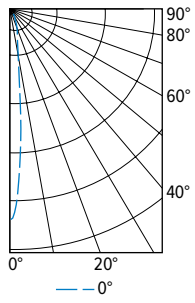
CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
	0	2593	
	5	2566	222
	15	1480	424
	25	1146	495
	35	100	114
	45	23	18
	55	5	5
	65	1	1
	75	0	0
	85	0	0
	90	0	0

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0-40	1256	98
	0-60	1279	100
	0-90	1281	100
	0-180	1281	100



4DR tunable WHITE 4.5" Downlight – Round

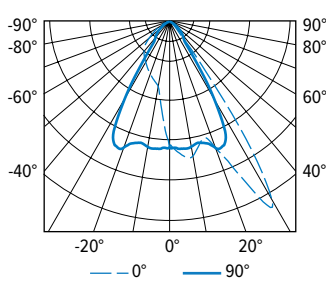
4DR-TL-L13/8TW-DIM-UNV-ON-OF-CS Total Luminaire Output: 1283 lumens; 14.6 Watts | Efficacy: 87.9 lm/W | 80.0 CRI; 4037K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
	0	13638	
	5	6842	497
	15	1518	425
	25	584	285
	35	57	68
	45	6	5
	55	1	2
	65	1	1
	75	0	0
	85	0	0
	90	0	0

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0-40	1275	99
	0-60	1282	100
	0-90	1283	100
	0-180	1283	100

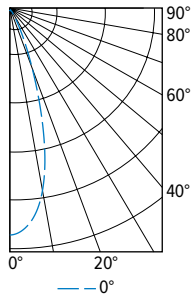
4DR-TL-L13/8TW-DIM-UNV-OWW-OF-CS Total Luminaire Output: 724 lumens; 14.6 Watts | Efficacy: 49.6 lm/W | 80.0 CRI; 4037K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE					ZONAL LUMENS
		0°	45°	90°	135°	180°	
	0	663	663	663	663	663	
	5	707	676	674	515	456	57
	15	640	635	664	283	313	142
	25	992	739	659	233	261	234
	35	278	165	143	195	218	127
	45	43	40	87	155	167	74
	55	19	18	45	91	92	48
	65	13	11	19	47	48	28
	75	4	3	7	23	22	13
	85	0	0	1	3	0	2
	90	0	0	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	560	77
	0 - 60	682	94
	0 - 90	724	100
	0 - 180	724	100

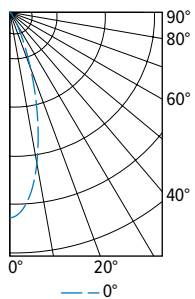
4DR-TL-L13/8TW-DIM-UNV-LM-OF-WH Total Luminaire Output: 1148 lumens; 14.6 Watts | Efficacy: 78.6 lm/W | 80.0 CRI; 4037K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
	0	2971	
	5	2844	259
	15	1745	467
	25	472	228
	35	123	82
	45	56	44
	55	36	32
	65	22	22
	75	11	12
	85	2	3
	90	0	0

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0-40	1036	90
	0-60	1112	97
	0-90	1148	100
	0-180	1148	100

4DR-TL-L13/8TW-DIM-UNV-RM-OF-WH Total Luminaire Output: 1149 lumens; 14.6 Watts | Efficacy: 78.7 lm/W | 80.0 CRI; 4037K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
	0	3313	
	5	3087	276
	15	1715	466
	25	503	241
	35	124	83
	45	48	38
	55	27	24
	65	14	14
	75	6	6
	85	2	2
	90	0	0

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0-40	1064	93
	0-60	1127	98
	0-90	1149	100
	0-180	1149	100

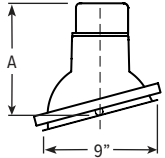


4DR tunable WHITE 4.5" Downlight – Round

TRIMLOCK DETAILS



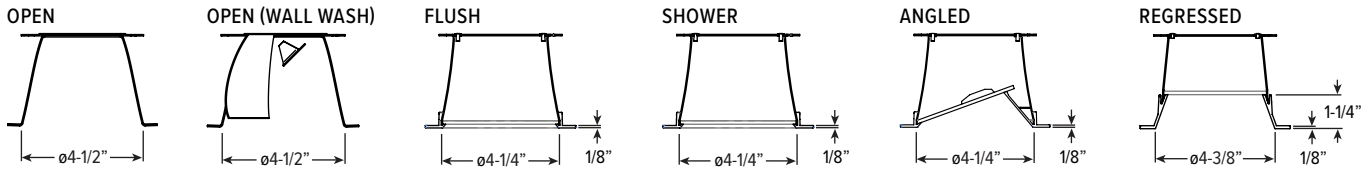
SLOPED CEILING ADAPTOR DETAILS



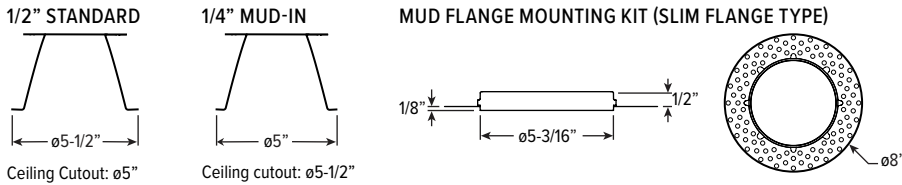
LUMENS	A (HEIGHT)						PLENUM HEIGHT
	5°	10°	15°	20°	25°	30°	
L13 - L22	8-13/16"	8-15/16"	9"	8-15/16"	8-7/8"	8-11/16"	9-1/4"
L40	9-9/16"	9-11/16"	9-11/16"	9-5/8"	9-1/2"	9-5/16"	10"

15° Shown

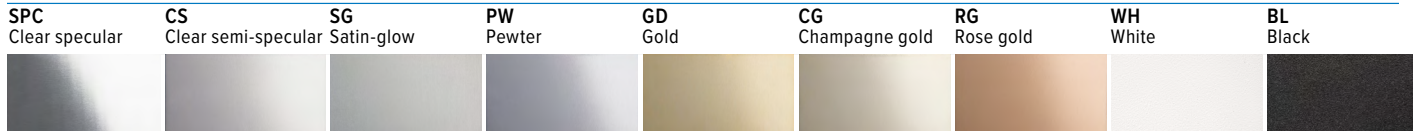
TRIM TYPE DETAILS



FLANGE TYPE DETAILS



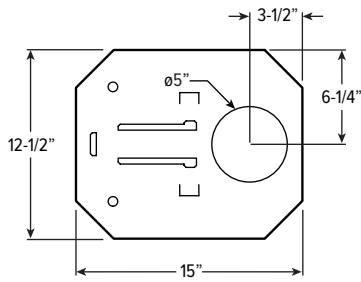
REFLECTOR FINISH DETAILS



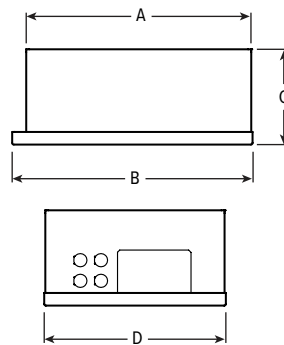
4DR tunable **WHITE** 4.5" Downlight – Round

MOUNTING TYPE DETAILS

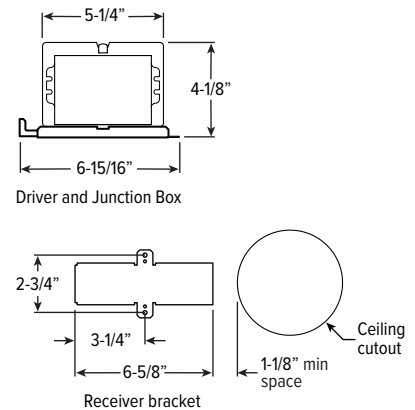
NEW CONSTRUCTION



IC-RATED



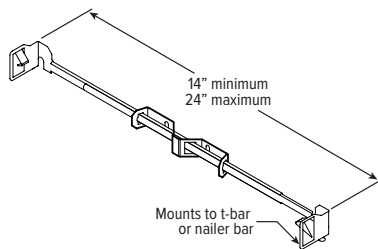
REMODEL



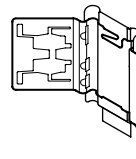
LUMENS	LENGTH			
	A	B	C	D
L13	15-3/16"	16"	6-3/8"	12-1/8"
L22	16-5/8"	17-1/2"	7-7/8"	14"

MOUNTING HARDWARE DETAILS

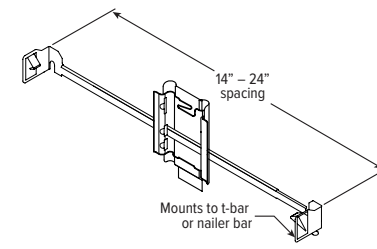
F1 2-Position fixed pan bracket, universal bar hanger included



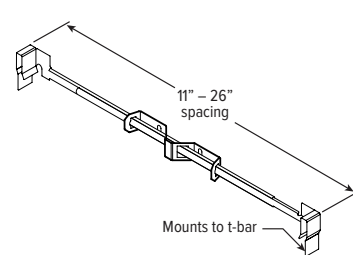
BA1 Adjustable butterfly pan bracket, bar hanger not included (N Mounting Type only)



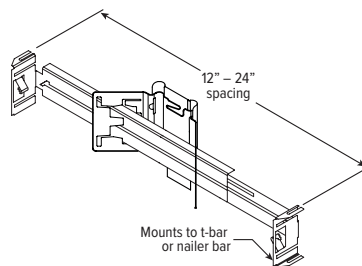
CA1 Adjustable caterpillar pan bracket, universal bar hanger included



F2 2-Position fixed pan bracket, t-bar bar hanger included



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



CA2 Adjustable caterpillar pan bracket, t-bar hanger included

