

CATALOG #: _____

TYPE: _____

PROJECT: _____

FEATURES

- Williams turn-key Power over Ethernet (PoE) solution provides plug-and-play networked lighting and control
- Tunable white from 2700K to 5000K CCT, minimum 80 CRI
- Ideal for schools, hallways, dormitories, locker rooms, or other vandal prone areas
- Beam angles ranging from 25° narrow to 50° wide for tailored performance
- Die cast trim choices include flush, regressed or angled lens
- Industry-leading efficacies as high as 112 lm/W

SYSTEM REQUIREMENTS

- Lighting system (site software)
- Gateway or alternate server (runs software)
- PoE switches or Ethernet switches and mid-span power injectors
- See hew.com/poe for details

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".
- LENSED TRIM** – Die-cast aluminum frame with micro-prismatic, polycarbonate lens. Trim is secured with four stainless steel, tamper-resistant screws.
- 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. Low-voltage DC fixture, to be fed by Class 2 power supply. 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.
- 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: V4DR - P22/835 - OPTIONS - POE N - LW - OF - WH - TRIM OPTIONS - N - F1

HOUSING

SERIES	LUMENS ^[1]	CRI	CCT	OPTIONS ^[2]	CONTROL ^[3]
V4DR	P12 1,200lm	8 80	27 2700K	ATH Airtight construction	POE N Power over Ethernet network node
	P22 2,200lm	9 90 ^[4]	30 3000K	CP Chicago plenum (CCEA) ^[5]	POE D Power over Ethernet device node
			35 3500K	TC Adjustable mounting arms for 1-1/2" – 2-1/4" thick ceilings	
			40 4000K	TP10 T10 torx bit 1/4" drive tamper-resistant tool ^[6]	
			50 5000K		
			TW Tunable white (80 CRI, 2700K–5000K)		

TRIM

TRIM TYPE	DISTRIBUTION ^[7]	FLANGE TYPE	REFLECTOR FINISH	TRIM OPTIONS
L Flush lens	W Wide	OF 1/2" standard flange	CS Clear semi-specular powder coat	MWT Textured white trim flange ^[11]
R Regressed lens	50° Flush		WH White texture powder coat	IP IP65 rated trim
A Angled lens ^[8]	M Medium		BL Black texture powder coat	PD Diffuse 1/8" polycarbonate lens ^[12]
	35° Flush		MB Black texture splay with white flange ^[10]	WET/CC Wet location, covered ceiling listed
	30° Regressed			AM Anti-microbial ^[13]
	N Narrow			
	25° Flush			
	25° Regressed			
	WW Wall wash ^[9]			

MOUNTING

MOUNTING TYPE^[14]

- N Open pan for new construction
- I IC-rated enclosure for new construction^[16]

MOUNTING HARDWARE^[15]

- F1 Integral 2-position fixed pan bracket, universal bar hanger included
- BA1 Adjustable butterfly pan bracket, bar hanger not included^[17]
- CA1 Adjustable caterpillar pan bracket, universal bar hanger included^[18]

NOTES

- Static white lumen output based on L trim type, W distribution and WH finish, 3500K/80CRI. Actual lumens may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA.
- See hew.com/poe for compatible sensors & switches.
- For additional PoE info, see hew.com/poe
- Extended lead times may apply. Consult factory for availability. Not available with Tunable White.
- I Mounting Type required.
- Tamper-resistant (TP10) tool must be ordered separately. Please specify quantity required per project.
- Beam angle based on WH reflector finish.
- Available with WW Distribution only.
- A Trim Type only.
- R Trim Type only. Not available with MWT.
- Not available with WH Reflector Finish or L Trim Type
- W distribution only.
- WH and BL Reflector Finishes only.
- Mounting hardware required, ordered separately, see MOUNTING HARDWARE ordering info. See page 4 for MOUNTING TYPE DETAILS.
- Additional mounting hardware options available. See page 4 for MOUNTING HARDWARE DETAILS.
- P12 lumen package max. P22 available, W distribution only.
- N Mounting Type only.
- N Mounting Type only.

V4DR PoE | tunable WHITE

4.5" Vandal-Resistant Downlight – Round

FIXTURE PERFORMANCE DATA

STANDARD

FLUSH LENS TRIM TYPE

	DIST.	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
P12	W	1196	12.3	97.6
	M	1356	12.3	110.7
	N	1365	12.3	111.4
P22	W	2195	25.0	87.8
	M	2491	25.0	99.6
	N	2507	25.0	100.3

TUNABLE WHITE

FLUSH LENS TRIM TYPE

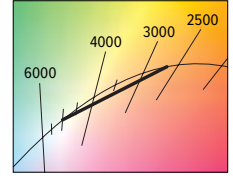
	DIST.	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
P12	W	1020	12.3	83.3
	M	1157	12.3	94.4
	N	1164	12.3	95.1
P22	W	2061	25.0	82.4
	M	2337	25.0	93.5
	N	2353	25.0	94.1

MULTIPLIER TABLES

	COLOR TEMPERATURE		
	CCT	LUMENS	
		STANDARD	TUNABLE WHITE
80 CRI	2700K	0.92	0.83
	3000K	0.98	1.00
	3500K	1.00	0.99
	4000K	1.01	1.00
	5000K	1.02	0.98

90 CRI	2700K	0.76	–
	3000K	0.79	–
	3500K	0.82	–
	4000K	0.84	–
5000K	0.88	–	

TRIM	
CATALOG NUMBER	CONVERSION FACTOR
AD	0.85
PD	0.85



- Photometrics tested in accordance with IESNA LM-79. Results shown are based on 25°C ambient temperature.
- Standard results based on 3500K/80 CRI, actual lumens may vary +/-5%
- Tunable white results based on 4000K/80 CRI, actual lumens may vary +/-5%
- Use multiplier tables to calculate additional options.

REGRESSED LENS TRIM TYPE

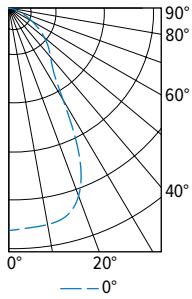
	DIST.	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
P12	W	1208	12.3	98.6
	M	1361	12.3	111.1
	N	1372	12.3	112.0
P22	W	2219	25.0	88.8
	M	2499	25.0	100.0
	N	2520	25.0	100.8

REGRESSED LENS TRIM TYPE

	DIST.	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
P12	W	1031	12.3	84.1
	M	1161	12.3	94.7
	N	1170	12.3	95.5
P22	W	2083	25.0	83.3
	M	2345	25.0	93.8
	N	2364	25.0	94.6

PHOTOMETRY

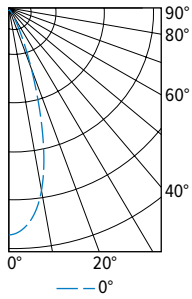
V4DR-P22/835-POE N-LW-OF-WH Total Luminaire Output: 2195 lumens; 25 Watts | Efficacy: 87.8 lm/W | 80CRI; 3500K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
	0	1542	
	5	1532	146
	15	1502	420
	25	1172	520
	35	546	354
	45	392	302
	55	261	234
	65	141	141
	75	60	64
	85	11	14
	90	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	1441	66
	0 - 60	1976	90
	0 - 90	2195	100
	0 - 180	2195	100

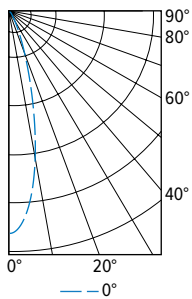
V4DR-P22/835-POE N-LM-OF-WH Total Luminaire Output: 2491 lumens; 25.0 Watts | Efficacy: 99.6 lm/W | 80CRI; 3500K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
	0	6445	
	5	6169	563
	15	3786	1013
	25	1024	494
	35	268	178
	45	122	96
	55	77	70
	65	48	47
	75	23	25
	85	5	6
	90	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0-40	2247	90
	0-60	2413	97
	0-90	2491	100
	0-180	2491	100

V4DR-P22/835-POE N-LN-OF-WH Total Luminaire Output: 2507 lumens; 25.0 Watts | Efficacy: 100.3 lm/W | 80CRI; 3500K CCT

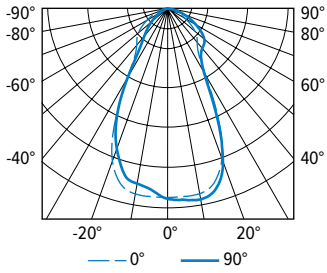


CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
	0	9417	
	5	8495	737
	15	3624	998
	25	855	416
	35	224	149
	45	107	84
	55	65	58
	65	40	39
	75	20	21
	85	4	5
	90	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0-40	2300	92
	0-60	2442	97
	0-90	2507	100
	0-180	2507	100

V4DR PoE | tunable **WHITE** 4.5" Vandal-Resistant Downlight – Round

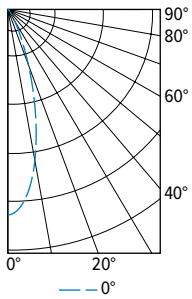
V4DR-P22/835-POE N-AWW-OF-WH Total Luminaire Output: 1660 lumens; 25.0 Watts | Efficacy: 66.4 lm/W | 80CRI; 3500K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE					ZONAL LUMENS
		0°	45°	90°	135°	180°	
	0	1406	1406	1406	1406	1406	
	5	1421	1420	1399	1367	1345	
	15	1367	1336	1323	1291	1238	
	25	786	749	822	866	838	
	35	418	390	382	385	330	
	45	370	344	299	234	194	
	55	291	258	196	133	104	
	65	177	146	96	58	38	
	75	82	59	31	17	16	
	85	15	7	4	5	4	
	90	0	0	1	1	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	1111	67
	0 - 60	1509	91
	0 - 90	1660	100
	0 - 180	1660	100

V4DR-P22/835-POE N-RM-OF-WH Total Luminaire Output: 2500 lumens; 25.0 Watts | Efficacy: 100.0 lm/W | 80 CRI; 3500K CCT

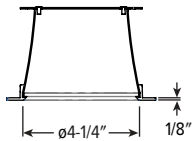


CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
	0	7206	
	5	6716	599
	15	3731	1013
	25	1094	523
	35	270	180
	45	104	83
	55	59	53
	65	31	31
	75	13	14
	85	3	4
	90	1	

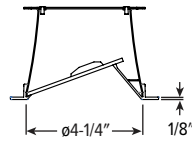
LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0-40	2315	93
	0-60	2451	98
	0-90	2500	100
	0-180	2500	100

TRIM TYPE DETAILS

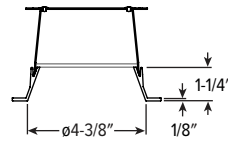
FLUSH



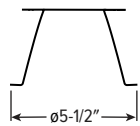
ANGLED



REGRESSED



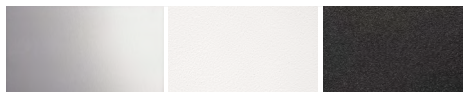
FLANGE TYPE DETAILS



Ceiling Cutout: $\phi 5"$

REFLECTOR FINISH DETAILS

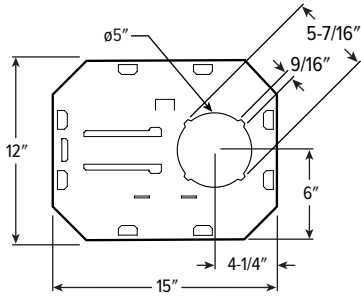
CS Clear semi-specular **WH** White
BL Black



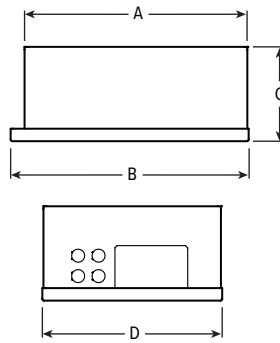
V4DR PoE | tunable **WHITE** 4.5" Vandal-Resistant Downlight – Round

MOUNTING TYPE DETAILS

NEW CONSTRUCTION



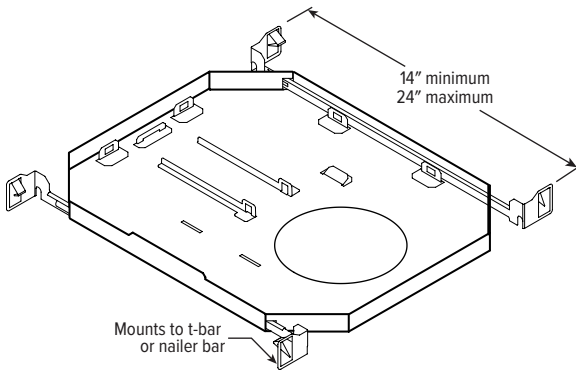
IC-RATED



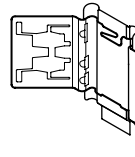
LUMENS	LENGTH			
	A	B	C	D
P12	15-3/16"	16"	6-3/8"	12-1/8"
P22	16-5/8"	17-1/2"	7-7/8"	14"

MOUNTING HARDWARE DETAILS

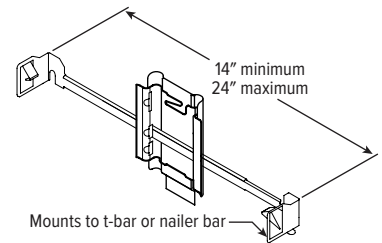
F1 Integral 2-position fixed pan bracket, universal bar hanger included



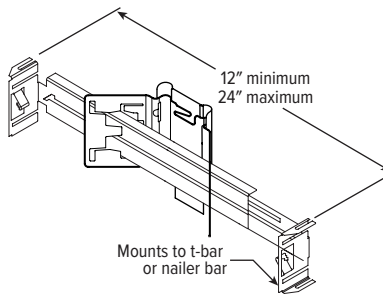
BA1 Adjustable butterfly pan bracket, bar hanger not included (N Mounting Type only)



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)

