

CATALOG #: _____

TYPE: _____

PROJECT: _____

FEATURES

- Create scalable, highly functioning smart buildings with Platformatics Power over Ethernet controls
- Multiple distribution options provide effective, application specific lighting
- Smooth surface doorframe and lens materials simplify cleaning
- Optional green circuit provides enhanced visual clarity for operating room staff and reduces eye fatigue during videoscopic surgical procedures
- Designed exclusively for hospitals and medical facilities utilizing 15/16", 1-1/2", and 2" face T-bars
- Anti-microbial white finish standard
- Reduces intense contrast between surgical and preparatory work areas
- Made Right Here® in the USA

ORDERING EXAMPLE: MDSG - 24 - P21/GRN/P91/840 - SYM - OPTIONS - POE PR

ORDERING INFO

SERIES	CEILING TYPE	WIDTH	LENGTH	LUMENS ^[1]	CRI	CCT					
MDS	G NEMA Type "G"	1 1' ^[3]	2 2' ^[4]	1x4	8 80	30 3000K					
	F NEMA Type "F" ^[2]	2 2'	4 4'	P30	3,000lm white only	9 90 ^[5]					
				P66	6,600lm white only	40 4000K					
	2x2				P34	3,400lm white only	50 5000K				
					P71	7,100lm white only					
					P6/GRN/P23	600lm green/2,300lm white					
					P10/GRN/P47	1,000lm green/4,700lm white					
					2x4				P71	7,100lm white only	
									P141	14,100lm white only	
					P12/GRN/P47	1,200lm green/4,700lm white					
					P21/GRN/P91	2,100lm green/9,100lm white					

SPECIFICATIONS

- HOUSING – 20-gauge die-formed C.R.S.
- DOOR FRAME – .050" extruded aluminum, flat with mitered corners. Fully enclosed spring-loaded cam latches and T-type hinges. Door frame and lens are grounded to the fixture housing.
- SHIELDING – One-piece frosted acrylic, pattern #12, .125" thick.
- FINISH – 92% minimum average reflective white anti-microbial powder coating bonded to phosphate-free, multi-stage pretreated metal. All parts painted after fabrication to facilitate installation, increase efficiency, and inhibit corrosion.
- ELECTRICAL – High quality mid-power LED board. L70 > 60,000 hours per IES TM-21. Low-voltage DC fixture, to be fed by Class 2 power supply.
- MOUNTING – NEMA Type "G" for 15/16", 1-1/2", and grid ceiling systems. NEMA Type "F" available. Four (4) earthquake clips standard.
- LISTINGS –
 - cCSAus certified as luminaire suitable for dry or damp locations.
- WARRANTY – 5-year limited warranty, see hew.com/warranty.

SHIELDING

- SYM Symmetric
- SYM/ASY Symmetric/asymmetric ^[7]

OPTIONS

- TG Triple gasket ^[8]

CONTROL ^[6]

- POE PR Power over Ethernet, Platformatics-ready

SYSTEM REQUIREMENTS

- PoE-ready luminaires are connected to building power systems through network integration and require other components for complete PoE lighting system
- For additional PoE info, see hew.com/platformatics.
- Consult factory for design support



NOTES

- ¹ Lumens based on 80 CRI/4000 CCT. Actual lumens may vary +/-5%. See page 2 for FIXTURE PERFORMANCE DATA.
- ² See page 4 for NEMA TYPE "F" INSTALLATION.
- ³ 4' length only.
- ⁴ 2' width only.
- ⁵ Available in 4000K and 5000K only. Extended lead times may apply. Consult factory for availability.
- ⁶ See page 3 for NODE CONNECTION DETAILS. For additional PoE info, see hew.com/platformatics.
- ⁷ Reduces fixture output up to 5%.
- ⁸ See page 4 for GASKETING DETAILS.



FIXTURE PERFORMANCE DATA

LED PACKAGE	WATTAGE		SYMMETRIC				SYMMETRIC/ASYMMETRIC				
			DELIVERED LUMENS		EFFICACY (lm/W)		DELIVERED LUMENS		EFFICACY (lm/W)		
	WHITE	GREEN	WHITE	GREEN	WHITE	GREEN	WHITE	GREEN	WHITE	GREEN	
WHITE											
1x4	P30	25	-	3022	-	122	-	2950	-	119	-
	P66	50	-	6595	-	133	-	6438	-	129	-
2x2	P34	25	-	3403	-	138	-	3327	-	135	-
	P71	50	-	7080	-	143	-	6923	-	140	-
2x4	P71	50	-	7111	-	144	-	6953	-	141	-
	P141	99	-	14161	-	143	-	13846	-	140	-
GREEN/WHITE											
2x2	P6/P23	17	8	2330	611	130	76	2278	598	136	75
	P10/P47	34	16	4720	972	127	61	4615	950	137	59
2x4	P12/P47	34	16	4700	1222	140	76	4615	1195	138	75
	P21/P91	65	35	9084	2126	140	61	8882	2078	137	59

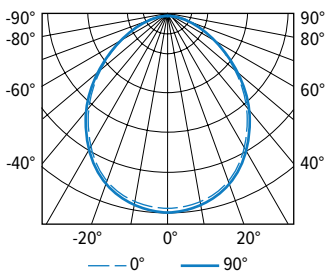
MULTIPLIER TABLES

	COLOR TEMPERATURE	
	CCT	CONVERSION FACTOR
80 CRI	3000K	0.96
	3500K	0.97
	4000K	1.00
	5000K	1.03
90 CRI	4000K	0.83
	5000K	0.86

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

PHOTOMETRY

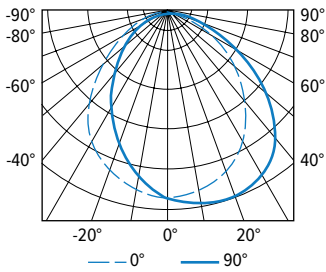
MDSG-24-P141/840-SYM Total Luminaire Output: 14161 lumens; 99 Watts | Efficacy:143 lm/W | 80 CRI; 4000K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
		0°	45°	90°	
	0	6069	6069	6069	
	5	6089	6015	6008	572
	15	5785	5723	5723	1617
	25	5193	5134	5133	2368
	35	4356	4287	4278	2685
	45	3319	3247	3216	2509
	55	2264	2192	2159	1974
	65	1381	1325	1335	1340
	75	742	731	790	796
	85	260	269	315	300
	90	7	30	40	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
		0 - 30	4557
	0 - 40	7242	51
	0 - 60	11725	83
	0 - 90	14161	100
	0 - 180	14161	100

MDSG-24-P141/840-SYM/ASY Total Luminaire Output: 13846 lumens; 99 Watts | Efficacy: 140 lm/W | 80 CRI; 4000K CCT



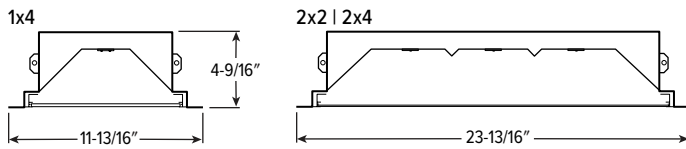
CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE					ZONAL LUMENS
		0°	45°	90°	135°	180°	
	0	5688	5688	5688	5688	5688	
	5	5879	5803	5698	5481	5428	537
	15	6067	5859	5435	4923	4739	1523
	25	5925	5599	4921	4148	3859	2250
	35	5441	5029	4176	3249	2902	2594
	45	4492	4071	3234	2361	2059	2490
	55	3175	2881	2251	1597	1398	2015
	65	1904	1742	1391	1005	912	1380
	75	988	878	731	577	552	786
	85	315	265	241	213	225	270
	90	22	14	8	32	42	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
		0 - 30	4310
	0 - 40	6904	50
	0 - 60	11409	82
	0 - 90	13846	100
	0 - 180	13846	100

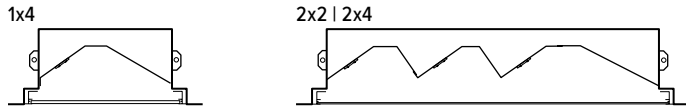


FIXTURE DETAILS

SYM

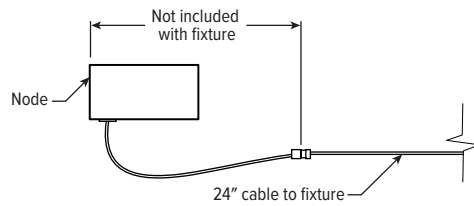


SYM/ASY



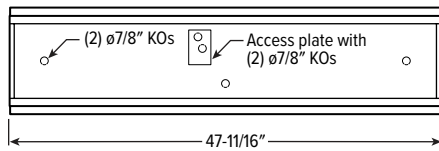
NODE CONNECTION DETAILS

Includes 24" cable with 4-position mating connector for Platformatics POE-LN2 node. See node spec sheet for details: platformatics.com/product/poe-ln2

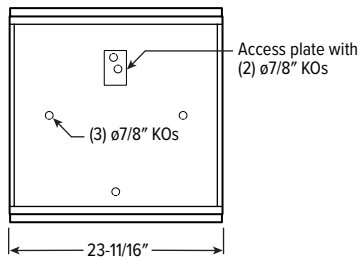


BACK VIEW DETAILS

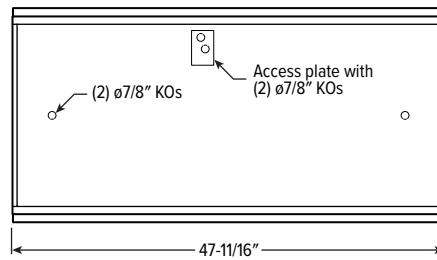
1x4



2x2

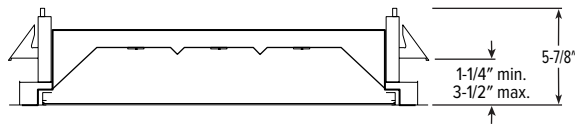


2x4



MDS^{PoE} Medical/Surgical Troffer – Wide Grid

NEMA TYPE “F” INSTALLATION

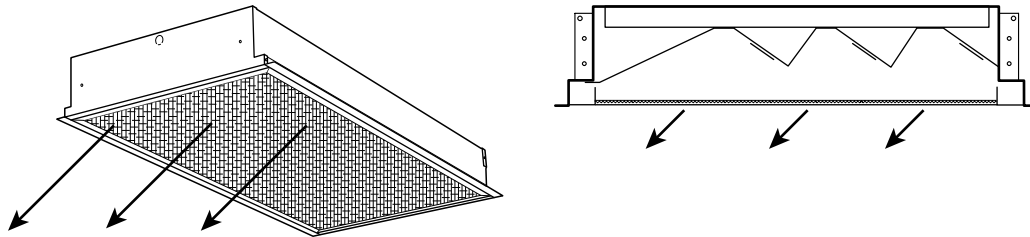


	ROUGH-IN	FINISH TRIM SIZE
1x4	12-3/8" x 48-3/8"	13-5/16" x 49-5/16"
2x2	24-3/8" x 24-3/8"	25-5/16" x 25-5/16"
2x4	24-3/8" x 48-3/8"	25-5/16" x 49-5/16"

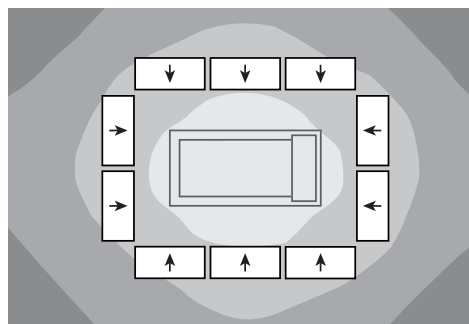
For continuous row mounting, add finish trim size for each additional fixture.

MDSF fixtures can be field converted to work with 1-1/2" or 2" NEMA Type "G" ceiling systems.

DIRECTIONAL LENS DETAILS

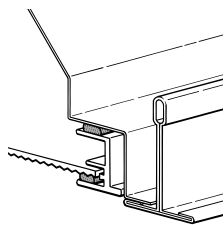


TYPICAL SURGICAL SUITE LAYOUT



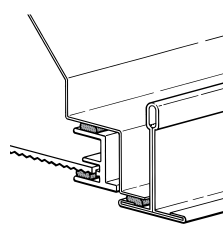
GASKETING DETAILS

DOUBLE GASKETING (STANDARD)



Gasketing is factory-installed continuously between door frame and luminaire housing; and between door frame and lens.

TRIPLE GASKETING (TG)



Gasketing is factory-installed continuously between door frame and luminaire housing; and between door frame and lens. Gasketing between bottom perimeter of unit (adjacent to T-bar or hardpan ceiling) is provided by factory and field-installed.