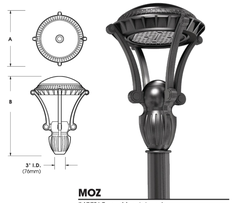
SUN VALLEY LIGHTING

SOLID AREA STATE LIGHTING

MOZART® - PLED

TRANSITIONAL LANTERN

SC



MOZ

(MOZ26 Tenon Mount shown)

Fitter supplied to fit over 2 1/4" X 3" (72mm X 76mm) tennon.

FIXTURE	A	B
MOZ26	26" 660mm	34.5" 876mm
MOZ20	20" 508mm	26.5" 673mm
MOZ12	12" 305mm	16.5" 419mm

Luminaire
One piece unitized precise heavy wall cast aluminum construction comprised of low copper (< 0.2% Cu) aluminum. Hood is fastened to the Housing with a stainless steel hinge and secured with a tool-less stainless steel latch 180° opposite the hinge. Housing and Hood is sealed with an extruded closed cell silicone gasket. White Acrylic enclosure is gasketed at the fixture Mounting Hub and crown with an extruded closed cell silicone gasket. Driver/wiring access is inside the enclosure and accesses through the top of the Mounting Hub. Hub accommodates a 2¼" x 3" tenon. All exposed hardware is stainless steel.

Diffuser
No Lens Open Frame Standard. Option of Clear Patterned Acrylic (CPA) or White Acrylic (WA) Lens. Enclosure is gasketed at the Crown and Base Fitter with closed cell silicone gasket.

PLED™ Optics
Emitters (LED's) are arrayed on a metal core PCB panel with each emitter located on a copper thermal transfer pad and enclosed by an LED refractor. LED optics completely control each individual emitter to meet an IP66 rating. In asymmetric distributions, a micro-reflector inside the refractor re-directs the house side emitter output towards the street side, maximizing usable light. Optional house side shields are available that cover each individual optic. Refractors are injection molded H12 acrylic. Each LED refractor is sealed to the PCB over an emitter and all refractors are retained by an aluminum frame. Any one Panel, or group of Panels, in a luminaire, have the same optical pattern. LED refractors produce standard site/area distributions. Panels are field replaceable and field rotatable in 90° increments. Quick-disconnects are provided above each panel for fast field replacement. No lens fixture option will provide "U0" no uplight optical package.

Ambiance Low Luminance Lens
Optional Ambiance Lens (AL) provides low luminance reduced glare distributions. Lens diffuses the PLED Optics and provides a more uniform luminance across the aperture reducing glare at all angles. Lens is provided with an aluminum frame and is sealed to the housing with high temp gasketing.

LED Emitters
LED thermal management is designed to maintain LED operating temperature below 90 °C, well below the manufacturers thermal max of 150 °C for long life, high lumen maintenance and color stabilit. High Power White LED's are driven between 350mA and 875mA for a maximum output of 2.5 Watts nominal. LED's are available in standard 2700K & 3000K, 4000K, or 5000K. All Standard LED's have a minimum of 70 CRI. Consult Factory for other LED options. Lumen Maintenance of L94 at 60,000 hours (TM-21 calculated at 6x Test Time).

True Amber LED's TRArue Amber LED's emit light in the amber spectral bandwidth centered on 585-590nm. True Amber has negligible blue light and is suitable for wildlife.

LED Driver
Constant current electronic with a power factor of >.90 and a minimum operating temperature of -40°F/-40°C. Driver(s) is/are UL and cUL recognized. In-line terminal blocks facilitate wiring between the driver and optical arrays. Drivers accept an input of 120-277V, 50/60Hz or 347V-480V, 50,60Hz. (0 - 10V dimmable driver is standard. Driver has a minimum of 3KV internal surge protection. Luminaire supplied with 20KV surge protector for field installation.)

Finish
Super TGIC polyester powder coating is applied onto a metal substrate this has been pretreated with a four-stage process for maximum adhesion and color retention. The top coat is baked at 400° F for maximum hardness and exterior durability.

BABA compliant | U.L. Listed for Wet Location | 2024166

MADE IN THE USA

SUN VALLEY LIGHTING

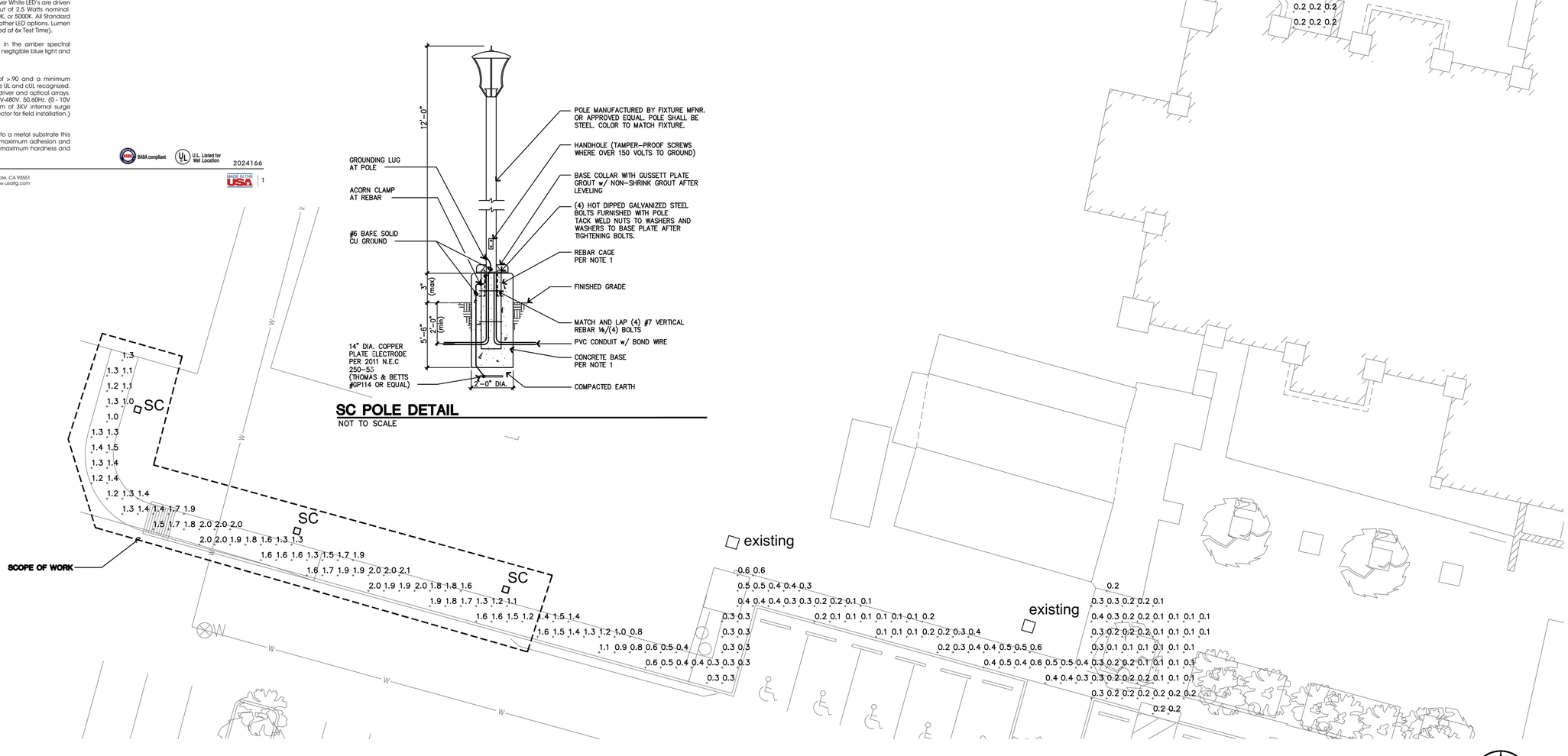
MOZ SERIES - PLED

PHOTOMETRIC DATA GUIDE - LUMEN TABLES (MOZ12-PLED-NL)

MOZ12-PLED-NL																				
LED Count	Drive Current (mA)	System Watts	Dist'n Type	27K (2700K - 70CRI)			30K (3000K - 70CRI)			40K (4000K - 70CRI)			50K (5000K - 70CRI)			System Watts	TRA (590nm)		
				LUMENS	LPW	BUG RATING	LUMENS	LPW	BUG RATING	LUMENS	LPW	BUG RATING	LUMENS	LPW	BUG RATING		LUMENS	LPW	BUG RATING
20	175	11.0	II	1371	106	B0-U0-G1	1264	115	B1-U0-G1	1331	121	B1-U0-G1	1397	127	B1-U0-G1	8.5	464	55	B0-U0-G0
			II-FR	1293	99	B0-U0-G0	1179	107	B0-U0-G0	1242	113	B0-U0-G0	1304	119	B0-U0-G0		433	51	B0-U0-G0
			II-M	1200	109	B0-U0-G1	1295	118	B0-U0-G1	1363	124	B0-U0-G1	1431	130	B1-U0-G1		476	56	B0-U0-G0
			II-W	1125	102	B0-U0-G1	1214	110	B0-U0-G1	1278	116	B0-U0-G1	1342	122	B0-U0-G1		446	52	B0-U0-G1
			IV	1200	109	B0-U0-G1	1295	118	B0-U0-G1	1363	124	B1-U0-G1	1431	130	B1-U0-G1		476	56	B0-U0-G0
			IV-FT	1089	99	B0-U0-G1	1176	107	B0-U0-G1	1238	113	B0-U0-G1	1299	118	B0-U0-G1		432	51	B0-U0-G1
			VS-2N	1218	111	B1-U0-G0	1315	120	B1-U0-G0	1384	126	B1-U0-G0	1453	132	B1-U0-G0		483	57	B0-U0-G0
			VS-2M	1269	115	B1-U0-G0	1370	125	B1-U0-G0	1443	131	B1-U0-G0	1514	138	B1-U0-G0		504	59	B1-U0-G0
			VS-W	1253	114	B1-U0-G1	1353	123	B1-U0-G1	1424	129	B1-U0-G1	1495	136	B1-U0-G1		497	58	B1-U0-G1
			AST	886	81	B0-U0-G0	957	87	B0-U0-G0	1007	92	B0-U0-G0	1057	96	B0-U0-G0		351	41	B0-U0-G0
			II-FR-HS	864	78	B0-U0-G0	922	84	B0-U0-G0	970	88	B0-U0-G0	1018	93	B0-U0-G0		338	40	B0-U0-G0
			II-M-HS	905	82	B0-U0-G0	976	89	B0-U0-G0	1028	93	B0-U0-G0	1079	98	B0-U0-G0		358	42	B0-U0-G0
			II-W-HS	898	82	B0-U0-G1	969	88	B0-U0-G1	1020	93	B0-U0-G1	1071	97	B0-U0-G1		356	42	B0-U0-G0
			IV-HS	968	86	B0-U0-G0	1024	93	B0-U0-G0	1077	98	B0-U0-G0	1131	103	B0-U0-G0		376	44	B0-U0-G0
			IV-FT-HS	905	82	B0-U0-G1	976	89	B0-U0-G1	1028	93	B0-U0-G1	1079	98	B0-U0-G1		359	42	B0-U0-G1
20	350	22.0	II	2129	97	B1-U0-G1	2298	104	B1-U0-G1	2420	110	B1-U0-G1	2540	115	B1-U0-G1	17.0	845	50	B0-U0-G0
			II-FR	1986	90	B1-U0-G1	2144	97	B1-U0-G1	2257	103	B1-U0-G1	2370	108	B1-U0-G1		788	46	B0-U0-G0
			II-M	2181	99	B1-U0-G1	2354	107	B1-U0-G1	2478	113	B1-U0-G1	2602	118	B1-U0-G1		865	51	B0-U0-G0
			II-W	2045	93	B1-U0-G1	2208	100	B1-U0-G1	2324	106	B1-U0-G1	2440	111	B1-U0-G1		811	48	B0-U0-G1
			IV	2181	99	B1-U0-G1	2355	107	B1-U0-G1	2479	113	B1-U0-G1	2603	118	B1-U0-G1		865	51	B0-U0-G0
			IV-FT	1980	90	B0-U0-G1	2137	97	B0-U0-G1	2250	102	B0-U0-G1	2362	107	B0-U0-G1		785	46	B0-U0-G0
			VS-2N	2215	101	B1-U0-G0	2391	109	B1-U0-G0	2517	114	B1-U0-G0	2643	120	B1-U0-G0		879	52	B1-U0-G0
			VS-2M	2308	105	B2-U0-G1	2492	113	B2-U0-G1	2623	119	B2-U0-G1	2754	125	B2-U0-G1		915	54	B1-U0-G0
			VS-W	2278	104	B1-U0-G1	2459	112	B2-U0-G1	2589	118	B2-U0-G1	2718	124	B2-U0-G1		904	53	B1-U0-G1
			II-HS	1611	73	B0-U0-G1	1739	79	B0-U0-G1	1830	83	B0-U0-G1	1921	87	B0-U0-G1		639	38	B0-U0-G0
			II-FR-HS	1551	71	B0-U0-G0	1675	76	B0-U0-G0	1763	80	B0-U0-G0	1851	84	B0-U0-G0		615	36	B0-U0-G0
			II-M-HS	1644	75	B0-U0-G1	1775	81	B0-U0-G1	1868	85	B0-U0-G1	1961	89	B0-U0-G1		652	38	B0-U0-G0
			II-W-HS	1632	74	B0-U0-G1	1762	80	B0-U0-G1	1855	84	B0-U0-G1	1947	88	B0-U0-G1		647	38	B0-U0-G0
			IV-HS	1723	78	B0-U0-G1	1860	85	B0-U0-G1	1958	89	B0-U0-G1	2056	93	B0-U0-G1		683	40	B0-U0-G0
			IV-FT-HS	1645	75	B0-U0-G1	1776	81	B0-U0-G1	1869	85	B0-U0-G1	1962	89	B0-U0-G1		652	38	B0-U0-G1
20	525	33.0	II	3066	93	B1-U0-G1	3310	100	B1-U0-G1	3484	106	B1-U0-G1	3658	111	B1-U0-G1	26.0	1216	47	B0-U0-G0
			II-FR	2860	87	B1-U0-G1	3088	94	B1-U0-G1	3250	98	B1-U0-G1	3413	103	B1-U0-G1		1134	44	B0-U0-G0
			II-M	3140	95	B1-U0-G1	3390	103	B1-U0-G1	3568	108	B1-U0-G1	3747	114	B1-U0-G1		1265	48	B0-U0-G1
			II-W	2945	89	B1-U0-G1	3179	96	B1-U0-G1	3346	101	B1-U0-G1	3513	106	B1-U0-G2		1168	45	B0-U0-G1
			IV	3141	95	B1-U0-G1	3391	103	B1-U0-G1	3570	108	B1-U0-G1	3748	114	B1-U0-G1		1266	48	B0-U0-G1
			IV-FT	2851	86	B1-U0-G2	3077	93	B1-U0-G2	3239	98	B1-U0-G2	3401	103	B1-U0-G2		1131	43	B0-U0-G1
			VS-2N	3189	97	B2-U0-G1	3443	104	B2-U0-G1	3624	110	B2-U0-G1	3805	115	B2-U0-G1		1265	49	B1-U0-G0
			VS-2M	3326	101	B2-U0-G1	3588	109	B2-U0-G1	3777	114	B2-U0-G1	3966	120	B2-U0-G1		1318	51	B1-U0-G0
			VS-W	3280	99	B3-U0-G1	3541	107	B3-U0-G1	3728	113	B3-U0-G1	3914	119	B3-U0-G2		1301	50	B1-U0-G1
			II-HS	2320	70	B0-U0-G1	2504	76	B0-U0-G1	2636	80	B0-U0-G1	2767	84	B0-U0-G1		920	35	B0-U0-G0
			II-FR-HS	2234	68	B0-U0-G0	2412	73	B0-U0-G0	2539	77	B0-U0-G1	2665	81	B0-U0-G1		886	34	B0-U0-G0
			II-M-HS	2368	72	B0-U0-G1	2556	77	B0-U0-G1	2690	82	B0-U0-G1	2824	86	B0-U0-G1		938	36	B0-U0-G0
			II-W-HS	2350	71	B0-U0-G1	2537	77	B0-U0-G1	2671	81	B0-U0-G1	2804	85	B0-U0-G1		932	36	B0-U0-G1
			IV-HS	2481	75	B0-U0-G1	2679	81	B0-U0-G1	2819	85	B0-U0-G1	2960	90	B0-U0-G1		984	38	B0-U0-G0
			IV-FT-HS	2369	72	B0-U0-G1	2557	77	B0-U0-G1	2692	82	B0-U0-G1	2826	86	B0-U0-G1		939	36	B0-U0-G1

LUMINAIRE SCHEDULE

MARK	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	LAMPS	VOLTAGE	INPUT WATTAGE	MOUNTING	NOTES
SC	–	–	POLE TOP MOUNTED LED HEAD, NO LENS ROUND	– 3300LUMENS 3000K	208	40W	12' POLE	
	US ARCHITECTURAL	MOZ12-PLED-V-SQ-M-36LED-525mA-						
	–	30K-UNV-PT23-8019-NL						



SC POLE DETAIL

NOT TO SCALE

PARTIAL PHOTOMETRIC SITE PLAN

SCALE: 3/32" = 1'-0"

ENERGY SYSTEMS DESIGN
7135 East Camelback Road
Suite 275
Scottsdale AZ 85251
P: 480.481.4900

Registered Professional Engineer
CERTIFICATE NO.
51498
HALLEH LANDON
Date Signed 08/01/25
ARIZONA U.S.A.

OUR LADY OF GRACE CATHOLIC CHURCH
18700 N. ST. GABRIEL WAY
MARICOPA, AZ 85138

REVISION

DESIGN CONTACT: TM
DRAWN BY: TM
CHECKED BY: HAL
DATE: 08.01.2025
PROJECT NUMBER: ADM/ESD

E1.0

PLOTTED: 08.01.2025 - 12:29pm PLOTTED BY: tonymiranda FILE: J:\2025\Our Lady Grace Church\E1_0.dwg