

AL22 LED TRACK HEAD



Ideal for accent and display lighting applications, the AL22 series features die cast aluminum construction with integrated heat sink in a sleek design. These luminaires are perfect for those applications where simplicity and high performance are required.

FEATURES & SPECIFICATIONS

CONSTRUCTION

Housing

- Die cast aluminum housing with integrated heat sink.

Finishes

- Heavy duty scratch resistant powder coated.
- Available in textured white and blacks (silver colour upon request).

Optics/Lens

- Standard lens that allows for desired beam angles.
- Lens constructed with plastic material.

Beams

- 9W: Spot 16°, Narrow Flood 20°, Flood 35°
- 13W: Spot 20°, Narrow Flood 23°, Flood 36°

Aiming

- 360° horizontal coverage
- Greater than 90° vertical aiming capability

ELECTRICAL

- THD < 20%, PF > 0.9

LED

- Long life LED that provide 80+ and 90+ CRI with a choice of 3000K, 3500K and 4000K colour temperatures. Colour consistency (SDCM) is 3 step MacAdam ellipse.

Lumens

- 9W: 863lm - 972lm
- 13W: 1320lm - 1499lm

Efficacy

- 9W: 3000K, 863lm - 93lm/W
- 13W: 3000K, 1371lm - 100lm/W

Lumens Maintenance

- 9W: Over 71% lumen maintenance expected at 36,000 hours at 30K colour temperature.
- 13W: Over 71% lumen maintenance expected at 61,000 hours at 30K colour temperature.

Driver

- 9W and 13W, 120V Line voltage LE + TE Dimmable.

Adapter

- Track heads with "J" adapter are classified to be used with AimLite ATJ track series, Juno T or TU track series. On/off switch standard. Spring-loaded latch with polarity arrow properly secures track head to the track. Easily switch the track head to two-circuit by pulling up contact. See instruction sheet for details. Track heads with "H" adapter are classified to be used with AimLite ATH track series and Cooper Lighting L641/2/3 track series.

COMPLIANCE

- Photometric testing in compliance with IES LM79-80
- ICES 005
- ETL listed

OVERVIEW

LIGHT SOURCE	LED	EFFICIENCY (LM/W)	93LM/W - 113LM/W
WATTS (W)	9W - 13W	COLOR TEMPERATURE (K)	3 000K, 3 500K AND 4 000K
LUMEN OUTPUT (LM)	863LM - 1499LM	CRI	80+ AND 90+
   			

Data is based upon tests performed in a controlled environment. Actual performance can vary depending on operating conditions. All products are subject to change or may be discontinued any time without notice.

TM21 TABLE • AL22 - 863LM [9W]

TIME (T) AT WHICH TO ESTIMATE LUMEN MAINTENANCE (HOURS)	50,000
LUMEN MAINTENANCE AT TIME (T) [%]	94.88%
CALCULATED L70 (HOURS)	693,500
REPORTED L70 (HOURS)	60,000

Note: Lumens are based on 30K colour temperature.

TM21 TABLE • AL22 - 1371LM (13W)

TIME (T) AT WHICH TO ESTIMATE LUMEN MAINTENANCE (HOURS)	50,000
LUMEN MAINTENANCE AT TIME (T) [%]	93.07%
CALCULATED L70 (HOURS)	299,700
REPORTED L70 (HOURS)	>61,000

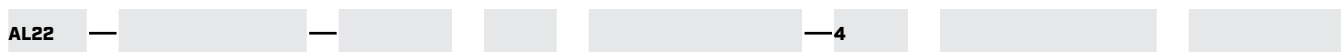
Note: Lumens are based on 30K colour temperature.

LUMEN CHART TABLE

LUMEN PACKAGE	WATTAGE	3000K		3500K		4000K	
		LUMEN OUTPUT [LM]	EFFICIENCY [LM/W]	LUMEN OUTPUT [LM]	EFFICIENCY [LM/W]	LUMEN OUTPUT [LM]	EFFICIENCY [LM/W]
09	9W	863LM	93lm	888lm	97lm	944lm	102lm
14	13W	1371LM	100lm	1411lm	105lm	1499lm	113lm

Note: All lumen information is based on Narrow flood beam reflector and 80+ CRI.

ORDERING GUIDE

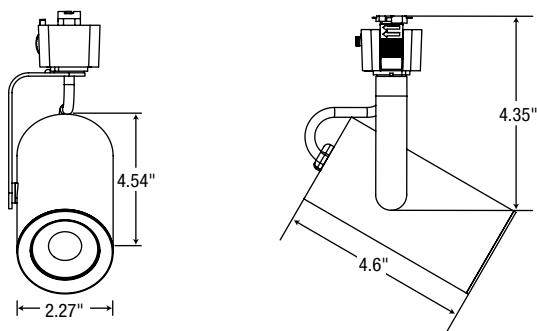


SERIES	LUMEN PACKAGE [LM]	COLOR TEMP. [K]	CRI	BEAM DISTRIBUTION		VOLTAGE	ADAPTOR	FINISH²
AL22	09 - [863LM-972LM] 14 - [1320LM-1499LM]	30 - 3000K 35 - 3500K 40 - 4000K	80 - 80+ 90 - 90+	S - SPOT N - NARROW FLOOD F - FLOOD		4 - 120V	J - J 6 J2 TRACK [STANDARD] H - H 6 H2 TRACK¹	BK - BLACK WH - WHITE

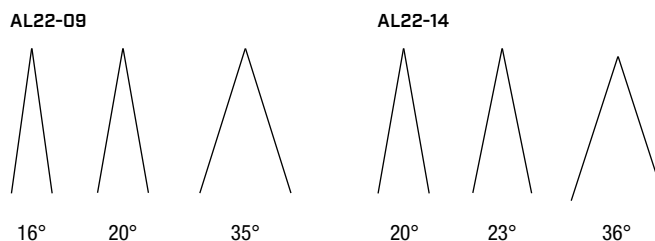
¹ Please contact factory for availability.

² For other options and availabilities please contact factory.

DIMENSIONS



BEAM DISTRIBUTION CHART



COMPATIBLE DIMMERS

LEADING EDGE DIMMERS		
LEVITON	SLV-600X S2-LX GL-600H	NFTU-5A DVLV-600P
LUTRON	6602-X 6681-X 6683-X 6684-X 700-X	705-X 6633 6674 IPI06-1LZ
COOPER	9530XXX	

TRAILING EDGE DIMMERS		
LEVITON	NTELV-600-XX SELV-303P MAELV-600-XX	DVELV-300P-XX SEIV-300P-XX
LUTRON	IPE04-1LZ VZE06-1LX	6615-POT
PHILIPS	SR400RPC120	

The fixture dimmer compatibility table shown above is for dimming functionality only.

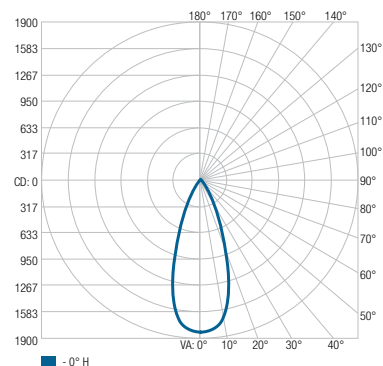
The dimmers listed in this chart may not comply to ICES 005 class A or B standards.

To confirm ICES Q05 compliance please contact the dimmer manufacturer.

PHOTOMETRIC DATA¹

AL22-09-3080F-4J • 886.2LM / 9W

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	740.0	83.5%
0-40	826.5	93.3%
0-60	873.5	98.6%
60-90	12.7	1.4%
70-100	4.5	0.5%
90-120	0	0%
0-90	886.2	100%
90-180	0	0%
0-180	886.2	100%

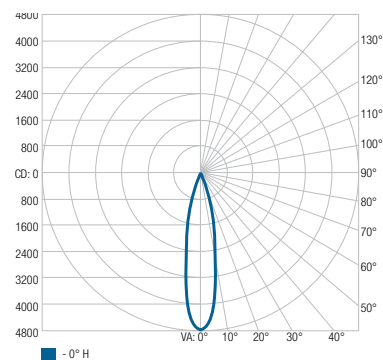
ILLUMINANCE AT A DISTANCE

CENTER BEAM FC		BEAM WIDTH	
1.7'	635	1.2'	1.2'
3.3'	169	2.3'	2.3'
5.0'	73.4	3.4'	3.5'
6.7'	40.9	4.6'	4.6'
8.3'	26.6	5.7'	5.7'
10.0'	18.4	6.9'	6.9'

■ Vert. Spread: 38.0° ■ Hor. Spread: 38.2°

AL22-09-3080N-4J • 873.5LM / 9W

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	788.4	90.3%
0-40	827.9	94.8%
0-60	859.9	98.4%
60-90	13.7	1.6%
70-100	4.8	0.5%
90-120	0	0%
0-90	873.5	100%
90-180	0	0%
0-180	873.5	100%

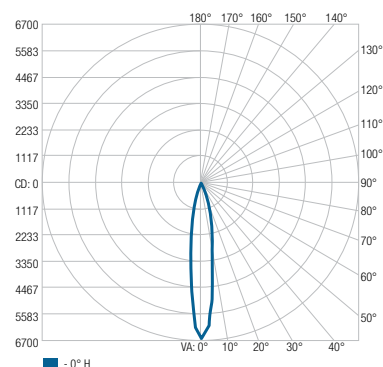
ILLUMINANCE AT A DISTANCE

CENTER BEAM FC		BEAM WIDTH	
1.7'	1 648	3.3'	3.3'
3.3'	437	6.6'	6.6'
5.0'	190	9.9'	9.9'
6.7'	106	13.2'	13.2'
8.3'	69.1	16.5'	16.5'
10.0'	4.6	19.8'	19.8'

■ Beam Spread: 20.7°

AL22-09-3080S-4J • 901.6LM / 9W

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	816.3	90.5%
0-40	865.9	96%
0-60	889.3	98.6%
60-90	12.3	1.4%
70-100	5.3	0.6%
90-120	0	0%
0-90	901.6	100%
90-180	0	0%
0-180	901.6	100%

ILLUMINANCE AT A DISTANCE

CENTER BEAM FC		BEAM WIDTH	
1.7'	2 300	0.5'	0.5'
3.3'	610	0.9'	0.9'
5.0'	266	1.4'	1.4'
6.7'	148	1.9'	1.9'
8.3'	96.5	2.3'	2.3'
10.0'	66.5	2.8'	2.8'

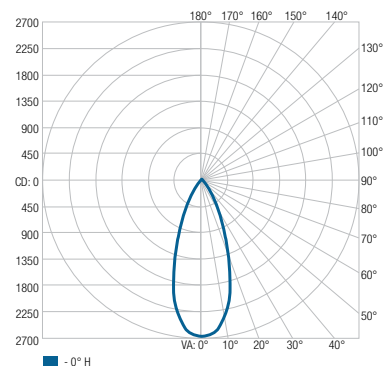
■ Beam Spread: 16.1°

¹ Complete IES files available on our website.

PHOTOMETRIC DATA¹

AL22-14-3080F-4J • 1349.9LM / 13W

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	1097.0	81.3%
0-40	1244.4	92.2%
0-60	1329.6	98.5%
60-90	20.3	1.5%
70-100	6.9	0.5%
90-120	0	0%
0-90	1349.9	100%
90-180	0	0%
0-180	1349.9	100%

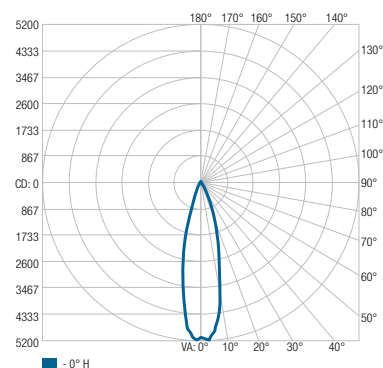
ILLUMINANCE AT A DISTANCE

CENTER BEAM FC	BEAM WIDTH
1.7'	928
3.3'	246
5.0'	107
6.7'	59.7
8.3'	38.9
10.0'	26.8

■ Beam Spread: 38.7°

AL22-14-3080N-4J • 1416.0LM / 13W

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	1260.0	89%
0-40	1349.0	95.3%
0-60	1395.8	98.6%
60-90	20.2	1.4%
70-100	8.4	0.6%
90-120	0	0%
0-90	1416.0	100%
90-180	0	0%
0-180	1416.0	100%

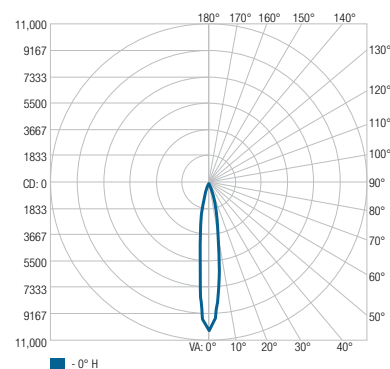
ILLUMINANCE AT A DISTANCE

CENTER BEAM FC	BEAM WIDTH
1.7'	1 768
3.3'	469
5.0'	204
6.7'	114
8.3'	74.2
10.0'	51.1

■ Vert. Spread: 25.9° ■ Hor. Spread: 26.4°

AL22-14-3080S-4J • 1410.1LM / 13W

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	1276.5	90.5%
0-40	1354.3	96%
0-60	1391.1	98.7%
60-90	19	1.3%
70-100	8.1	0.6%
90-120	0	0%
0-90	1410.1	100%
90-180	0	0%
0-180	1410.1	100%

ILLUMINANCE AT A DISTANCE

CENTER BEAM FC	BEAM WIDTH
1.7'	3 597
3.3'	954
5.0'	416
6.7'	232
8.3'	151
10.0'	104

■ Beam Spread: 16.0°

¹ Complete IES files available on our website.