



OVERVIEW

Minimo Pro HE - North America is a Constant Current single source pro-series downlight that is machined from aerospace grade aluminium 6063-T6 and comes as standard in white and black along with a range of premium finishes. It has four site-changeable optics for flexible beam distribution and is fully adjustable with 360° pan and 35° tilt without breaking the ceiling line. Our 1209lm | 10.80W light engine has a max peak intensity of 9156cd. The integral accessory holder can accommodate 32mm lenses and louvers.

PERFORMANCE

	High Efficiency			
	Narrow	Medium	Wide	V. Wide
FWHM	17°	25°	35°	40°
Luminous Flux	1130 lm	1209 lm	1125 lm	1094 lm
Peak Intensity	9156 cd	6136 cd	3011 cd	2261 cd
CCT	2700K 3000K			
CRI Min.	90 90			
LED Current	0.300 A			
Voltage	36 V			
Input Wattage	10.8 W			
Efficacy	111.9 lm/W			
Driver Type	Constant Current Remote			
Class	SELV Class III			

*Performance table shows light engine characteristics, driver input voltage 120V or 120-277V AC

ORDER CODE

Model	Type	Trim	Aperture	Output	CCT	Beam Angle	Trim Finish	Aperture Finish
MNPNA Minimo Pro	D Fixed	TR Trimmed	FP Pinhole ³	HE High Efficiency	27K 2700K	NR Narrow 17°	NA Trimless	WH White
	A Adjustable	TL Trimless ¹	BV Beveled ²	30K 3000K	ME Medium 25°	WH White	BK Black	BK Black
					WD Wide 35°	BK Black	MG Matt Gold	
					VW Very Wide 40°	AL Br. Aluminium		
						RBZ R. Bronze		
						BR Br. Brass		
						PB P. Brass		
						CH Chrome		

Example code: MNPNA-D-TL-BV-HE-27K-NR-NA-WH

¹ Trimless trim finish must be NA ² MG Aperture finish only for beveled ³ Pinhole trim finishes only WH/BK/NA

See Drivers, Power Supplies and Accessories sections for further order codes

Housing	Model	Trim	Output	Control
HIC Housing, IC Rated	MNPNA Minimo Pro	TR Trimmed ²	HE High Efficiency ¹	PHSD Forward/Reverse Phase
HCP Housing, IC Rated Chicago Pl		TL Trimless ²		010G 0-10V Log Dimming
HP New Construction Pan (Non-IC)				DALI DALI-2 Dimming
HRM Remote Driver (Non-IC)				DMX DMX

Example code: HIC-MNPNA-TR-HE-010G

¹ A driver configuration must always be included with this product, it requires 1 driver per light ² Trim and Output must match luminaire configuration

See Drivers, Power Supplies and Accessories sections for further order codes

LIGHT ENGINE SELECTION

This product specification sheet references our HE light engine, this product is also available with Intense and Plus static white light engines, please refer to their separate sheets.

▸ intense ▸

Precision's signature intense light engines offer tight, surgical beams combined with the highest peak intensity values available.

- Ultra-tight beams
- High Peak Cd

plus⁺

Precision's plus light engines offer the best balance between delivered lumens, beam quality and outstanding colour rendition.

- Increased Lumen Output
- CRI 98 Typical

HE

Precision's high efficiency light engines deliver the highest possible lumen values as well as our outstanding energy efficiency

- Maximum Lumen Output
- Maximum Energy Efficiency

LIFETIME & ENVIRONMENTAL

At Precision, we design and engineer our products with longevity in mind. Many of the components that make up our light fixtures are both modular and re-usable, making it possible to service and repair them throughout their life in service. Once our products reach the end of their useful life, it is possible to re-work and renew them in to a new product. We prioritise the use of recyclable materials in both our products and packaging, and encourage our customers to engage responsibly in the correct disposal of any materials we supply.

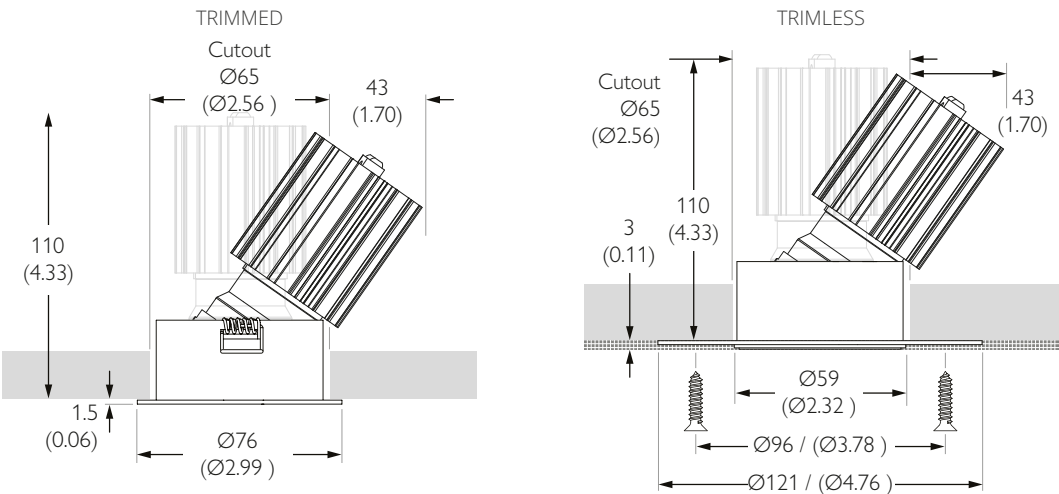
CIBSE TM65	13.09 Kg/CO2e	UK PART L	
CIBSE TM66	2.2	Part L1A / L1B (Dwellings)	Compliant 154 lm/W Source lm (1663 lm) / Source W (10.80 W)
RoHS Compliance	Yes	Part L2A (General)	Compliant 105lm/W Delivered (1209 lm) / System W* (11.49 W)
REACH Compliance	Yes	Part L2A (Display)	Compliant 154 lm/W Source lm (1663 lm) / Source W (10.80 W)
WEEE Compliance	Yes - Registered Producer	*System W includes driver losses	
Declare	LBC Red List Approved		
Lifetime	L90B10 50,000hrs		
Warranty	5 Years		

MINIMO PRO HE - NORTH AMERICA

DIMENSIONS & FINISHES

HIGH EFFICIENCY LIGHT ENGINE

DIMENSIONS - LUMINAIRE



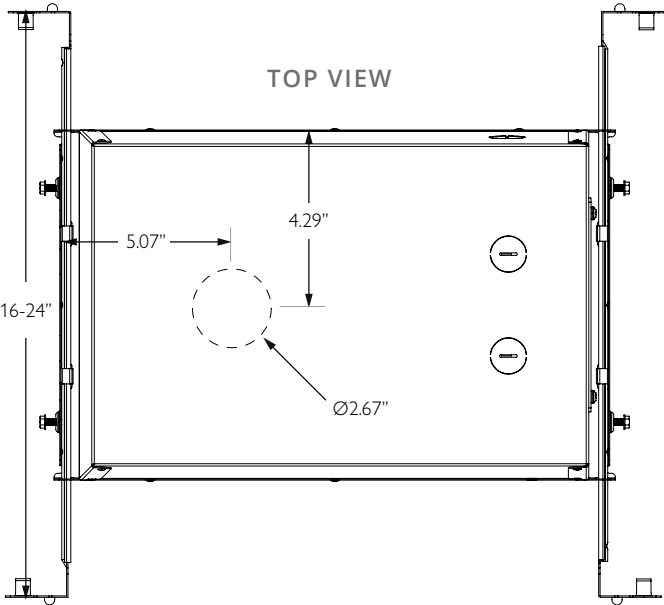
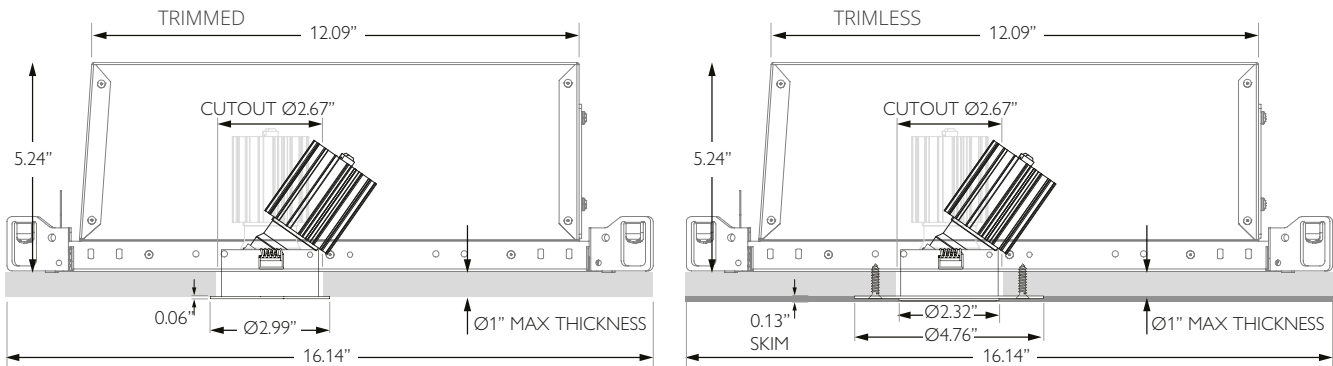
*Non-IC remodel recessed install with remote driver

MECHANICAL

Location	IP20 Indoor Dry / Damp Location Only
Mounting	Recessed
Adjustability	360 Pan 35 Tilt
Lockable	N/A
Accessories	Louver Lenses

Cutout	$\varnothing 65$ mm (2.56")
Ceiling Thickness	3-25mm (0.12-0.98")
Product Class	SELV Class III
Material	Machined AL 6063-T6
Weight	Luminaire 249g 0.55lb Housing 2553g 5.63lb

DIMENSIONS - IC HOUSING (HIC / HCP)



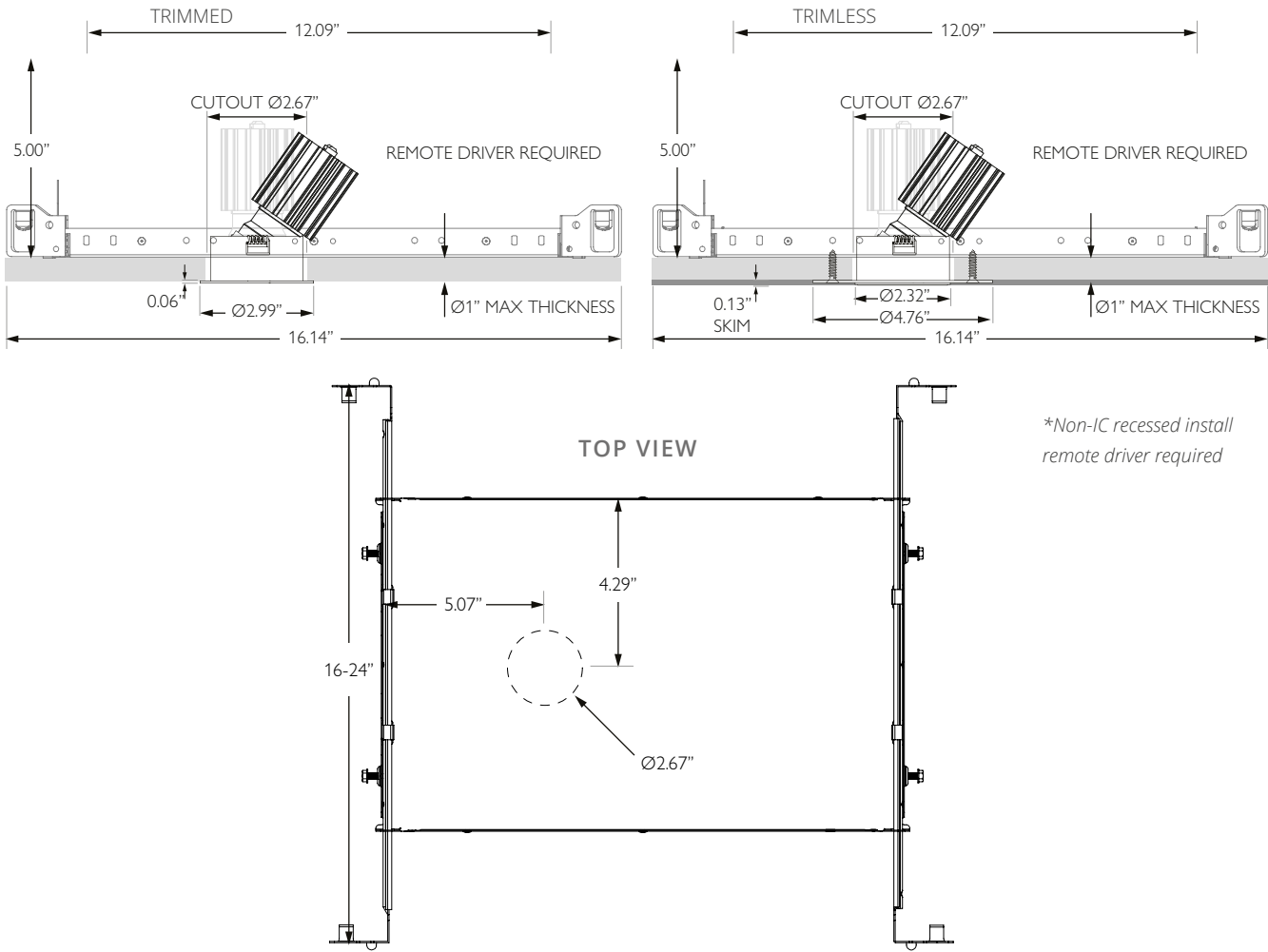
*IC recessed install requires remote driver

MINIMO PRO HE - NORTH AMERICA

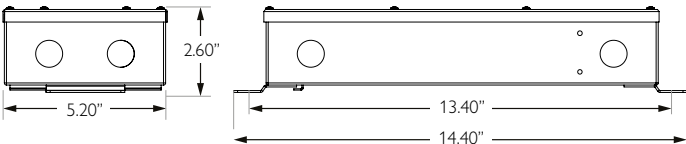
DIMENSIONS & FINISHES

HIGH EFFICIENCY LIGHT ENGINE

DIMENSIONS - NEW CONSTRUCTION PAN NON-IC (HP)

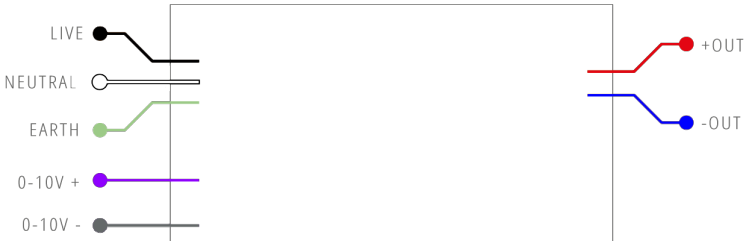


DIMENSIONS - REMOTE DRIVER (HIC / HCP / HP / HRM)



50W | 0-10V | Remote | Constant Current

Input Voltage	120-277V 50/60 Hz
Driver Type	Remote Constant Current
Location	IP20 Indoor Location Only
Dimming Control	0-10V
Min. Dim Level	0.1%
Flicker	IEEE P1789 Compatible No Observable Effect
Wiring Distance	16 AWG - 36m (118') 18 AWG 22m (72')

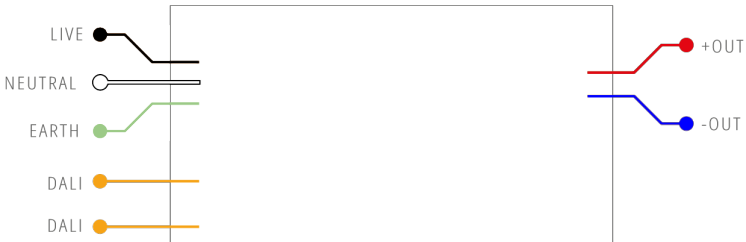


	HIC	HCP	HP	HRM		L	W	H
Max. Lights	1 only	1 only	1 only	1 only	mm	318	130	61
Order Code	HIC-MNPNA-aa-HE-010G	HCP-MNPNA-aa-HE-010G	HP-MNPNA-aa-HE-010G	HRM-MNPNA-aa-HE-010G	in	12.52	5.12	2.4

Replace aa with Trim type.

30W | DALI-2 | Remote | Constant Current

Input Voltage	120-277V 50/60 Hz
Driver Type	Remote Constant Current
Location	IP20 Indoor Location Only
Dimming Control	DALI-2
Min. Dim Level	0.1%
Flicker	IEEE P1789 Compatible No Observable Effect
Wiring Distance	16 AWG - 36m (118') 18 AWG 22m (72')

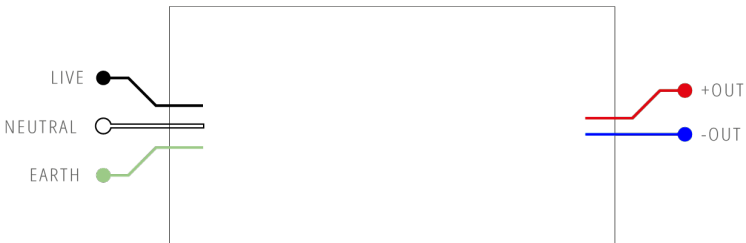


	HIC	HCP	HP	HRM		L	W	H
Max. Lights	1 only	1 only	1 only	1 only	mm	318	130	61
Order Code	HIC-MNPNA-aa-HE-DALI	HCP-MNPNA-aa-HE-DALI	HP-MNPNA-aa-HE-DALI	HRM-MNPNA-aa-HE-DALI	in	12.52	5.12	2.4

Replace aa with Trim type.

30W | Phase | Remote | Constant Current

Input Voltage	120V 50/60 Hz
Driver Type	Remote Constant Current
Location	IP20 Indoor Location Only
Dimming Control	Phase
Min. Dim Level	1.0%
Flicker	IEEE P1789 Compatible No Observable Effect
Wiring Distance	16 AWG - 14m (46') 18 AWG 9m (30')



	HIC	HCP	HP	HRM		L	W	H
Max. Lights	1 only	1 only	1 only	1 only	mm	318	130	61
Order Code	HIC-MNPNA-aa-HE-PHSD	HCP-MNPNA-aa-HE-PHSD	HP-MNPNA-aa-HE-PHSD	HRM-MNPNA-aa-HE-PHSD	in	12.52	5.12	2.4

Replace aa with Trim type.

MINIMO PRO HE - NORTH AMERICA

PHOTOMETRY

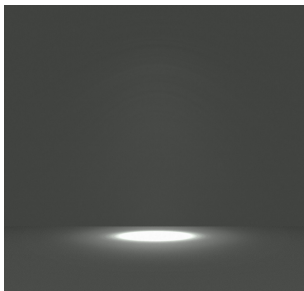
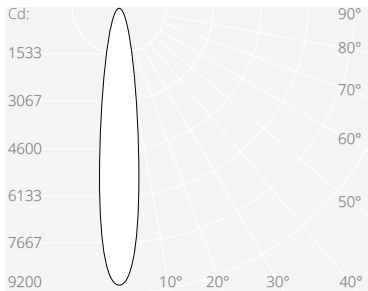
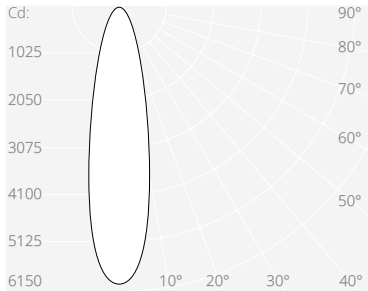
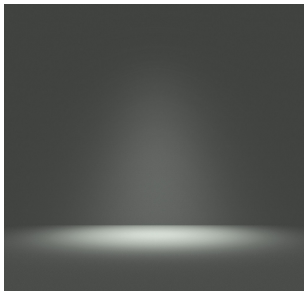
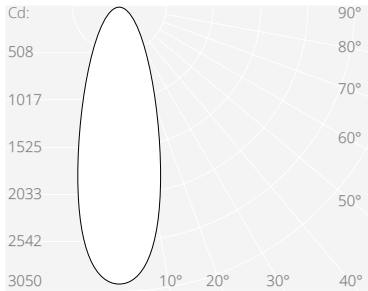
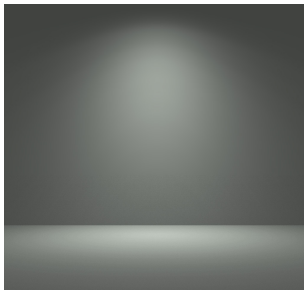
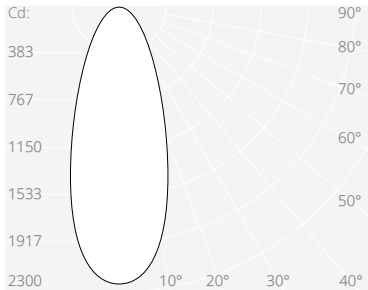
HIGH EFFICIENCY LIGHT ENGINE

OUTPUT SCALING

CCT	Output Multiplier	CRI	R9 Typ.	TM-30: Rf	TM-30: Rg	Max Lm
2400K	-	-	-	-	-	-
2700K	1.00	90	57	90	101	1209
3000K	1.00	90	57	90	101	1209
3500K	-	-	-	-	-	-
4000K	-	-	-	-	-	-

Colour Consistency: 2 SDCM

PHOTOMETRY

NARROW				<table><tr><td>Cd:</td><td>9156lx</td><td>1017fc</td><td>0.9'</td></tr><tr><td>1533</td><td>1m</td><td></td><td>3'</td></tr><tr><td>3067</td><td>0.60m</td><td>2289lx</td><td>1.8'</td></tr><tr><td></td><td>2m</td><td></td><td>6'</td></tr><tr><td>4600</td><td>0.90m</td><td>1017lx</td><td>2.7'</td></tr><tr><td></td><td>3m</td><td></td><td>9'</td></tr><tr><td>6133</td><td>1.20m</td><td>572lx</td><td>3.6'</td></tr><tr><td></td><td>4m</td><td></td><td>12'</td></tr><tr><td>7667</td><td>1.49m</td><td>366lx</td><td>4.5'</td></tr><tr><td></td><td>5m</td><td></td><td>15'</td></tr><tr><td>9200</td><td></td><td></td><td>5.4'</td></tr><tr><td></td><td></td><td></td><td>18'</td></tr></table>	Cd:	9156lx	1017fc	0.9'	1533	1m		3'	3067	0.60m	2289lx	1.8'		2m		6'	4600	0.90m	1017lx	2.7'		3m		9'	6133	1.20m	572lx	3.6'		4m		12'	7667	1.49m	366lx	4.5'		5m		15'	9200			5.4'				18'
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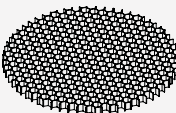
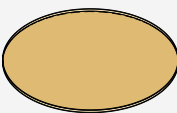
OPTICS

There are 4 interchangeable optics

Optic	Optic	Optic	Optic
			
Narrow TIR Optic Molded ID 15	Medium TIR Optic Molded ID 24	Wide TIR Optic Molded ID 36	Very Wide TIR Optic Molded ID 50
Order Code HKST-35-15-SIL	Order Code HKST-35-24-SIL	Order Code HKST-35-36-SIL	Order Code HKST-35-50-SIL

ACCESSORIES

This product can hold 1 x accessory within the integrated holder. To accommodate additional accessories please contact our sales team. Accessories are pre-installed unless otherwise requested.

Glare Control	Colour Change
	
Honeycomb Louver W32xH3.2mm W1.26xH0.13"	1/4 CTO W32xH1.8mm W1.26xH0.07"
Order Code 995-32-BK	Order Code 997-1/4CTO-32

MINIMO PRO HE - NORTH AMERICA

FEATURE MAP

HIGH EFFICIENCY LIGHT ENGINE

