

MINIMO PRO INTENSE - NORTH AMERICA



PRODUCT OVERVIEW TRIMMED | TRIMLESS

INTENSE LIGHT ENGINE



OVERVIEW

Minimo Pro Intense - North America is a Constant Current single source LED 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 five site-changeable optics for flexible beam distribution and is fully adjustable with 360° pan and 35° tilt without breaking the ceiling line. Our 661lm | 8.40W light engine has a max peak intensity of 12512cd. The integral accessory holder can accommodate 32mm lenses and louvers.

PERFORMANCE

	Intense				
	U. Narrow	Narrow	Medium	Flood	W. Flood
FWHM	11°	14°	18°	30°	50°
Luminous Flux	661 lm	650 lm	643 lm	555 lm	546 lm
Peak Intensity	12512 cd	8971 cd	5754 cd	1813 cd	660 cd
CCT	2700K 3000K 3500K 4000K				
CRI Min.	92 92 92 90				
LED Current	0.700 A				
Voltage	12 V				
Input Wattage	8.4 W				
Efficacy	78.7 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 <i>Minimo Pro</i>	D <i>Fixed</i>	TR <i>Trimmed</i>	FP <i>Pinhole</i> ³	IO <i>Intense</i>	27K 2700K	UN <i>Ultra Narrow 11°</i>	NA <i>Trimless</i>	WH <i>White</i>
	A <i>Adjustable</i>	TL <i>Trimless</i> ¹	BV <i>Beveled</i> ²		30K 3000K	NR <i>Narrow 14°</i>	WH <i>White</i>	BK <i>Black</i>
					35K 3500K	ME <i>Medium 18°</i>	BK <i>Black</i>	MG <i>Matt Gold</i>
					40K 4000K	FL <i>Flood 30°</i>	AL <i>Br. Aluminium</i>	
						WF <i>Wide Flood 50°</i>	RBZ <i>R. Bronze</i>	
							BR <i>Br. Brass</i>	
							PB <i>P. Brass</i>	
							CH <i>Chrome</i>	

Housing	Model	Trim	Output	Control
HIC <i>Housing, IC Rated</i>	MNPNA <i>Minimo Pro</i>	TR <i>Trimmed</i> ⁴	IO <i>Intense</i> ¹	PHSD <i>Forward/Reverse Phase</i>
HCP <i>Housing, IC Rated Chicago Pl</i>		TL <i>Trimless</i> ⁴		010G <i>0-10V Log Dimming</i>
HP <i>New Construction Pan (Non-IC)</i>				DALI <i>DALI-2 Dimming</i>
HRM <i>Remote Driver (Non-IC)</i>				DMX <i>DMX</i>
				NA <i>No Driver</i> ^{2 3}

Remote

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

¹ IO Output can be specified with no driver, intended for scenarios where a single remote driver (HRM or USCC) powers multiple series lights. ² For IO Output with Remote (HRM) and No Driver (NA) configured, the Trimless kit is HRM-MNPNA-TL-IO-NA ³ For IO Output with Remote (HRM) and No Driver (NA) configured, the Trimmed kit is part of the luminaire and a separate item is not required ⁴ Trim and Output must match luminaire configuration.

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

MINIMO PRO INTENSE - NORTH AMERICA

LIGHT ENGINE SELECTION

This product specification sheet references our Intense light engine, this product is also available with Plus and HE 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
CIBSE TM66	2.2
RoHS Compliance	Yes
REACH Compliance	Yes
WEEE Compliance	Yes - Registered Producer
Declare	LBC Red List Approved
Lifetime	L90B10 100,000hrs
Warranty	5 Years

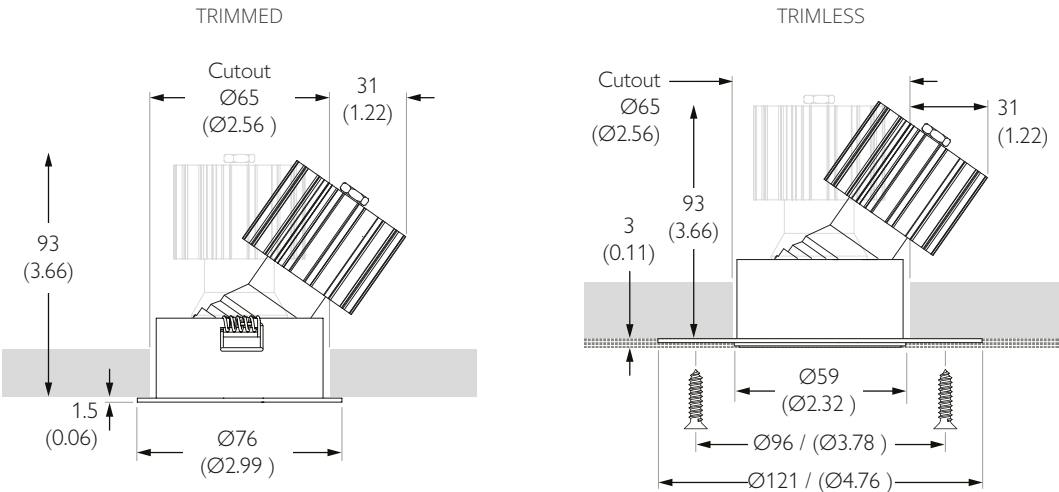
UK PART L	
Part L1A / L1B (Dwellings)	Compliant 105 lm/W
≥75 lm/W source lumens	Source lm (882 lm) / Source W (8.40 W)
Part L2A (General)	-
≥95lm/W delivered lumens	
Part L2A (Display)	Compliant 105 lm/W
≥80 lm/W source lumens	Source lm (882 lm) / Source W (8.40 W)

MINIMO PRO INTENSE - NORTH AMERICA

DIMENSIONS & FINISHES

INTENSE LIGHT ENGINE

DIMENSIONS - LUMINAIRE



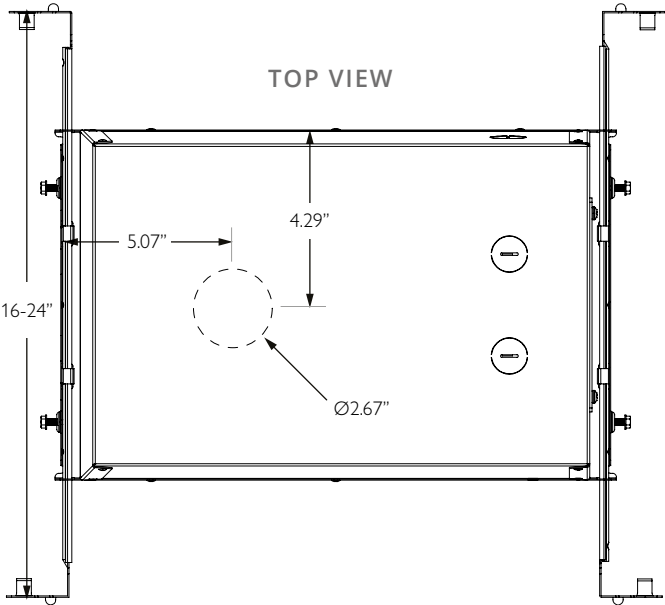
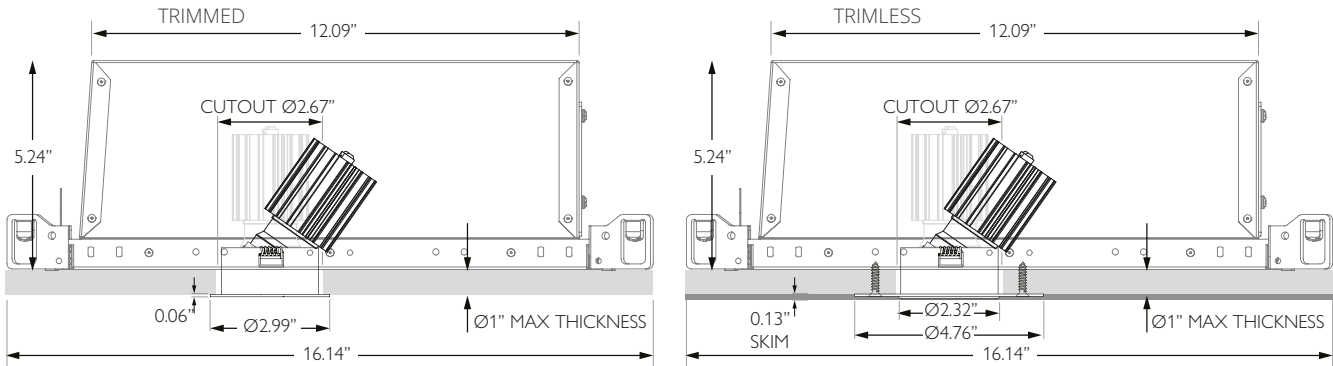
**Non-IC remodel recessed install with remote driver*

MECHANICAL

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

Cutout	$\varnothing 65\text{mm}$ (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)



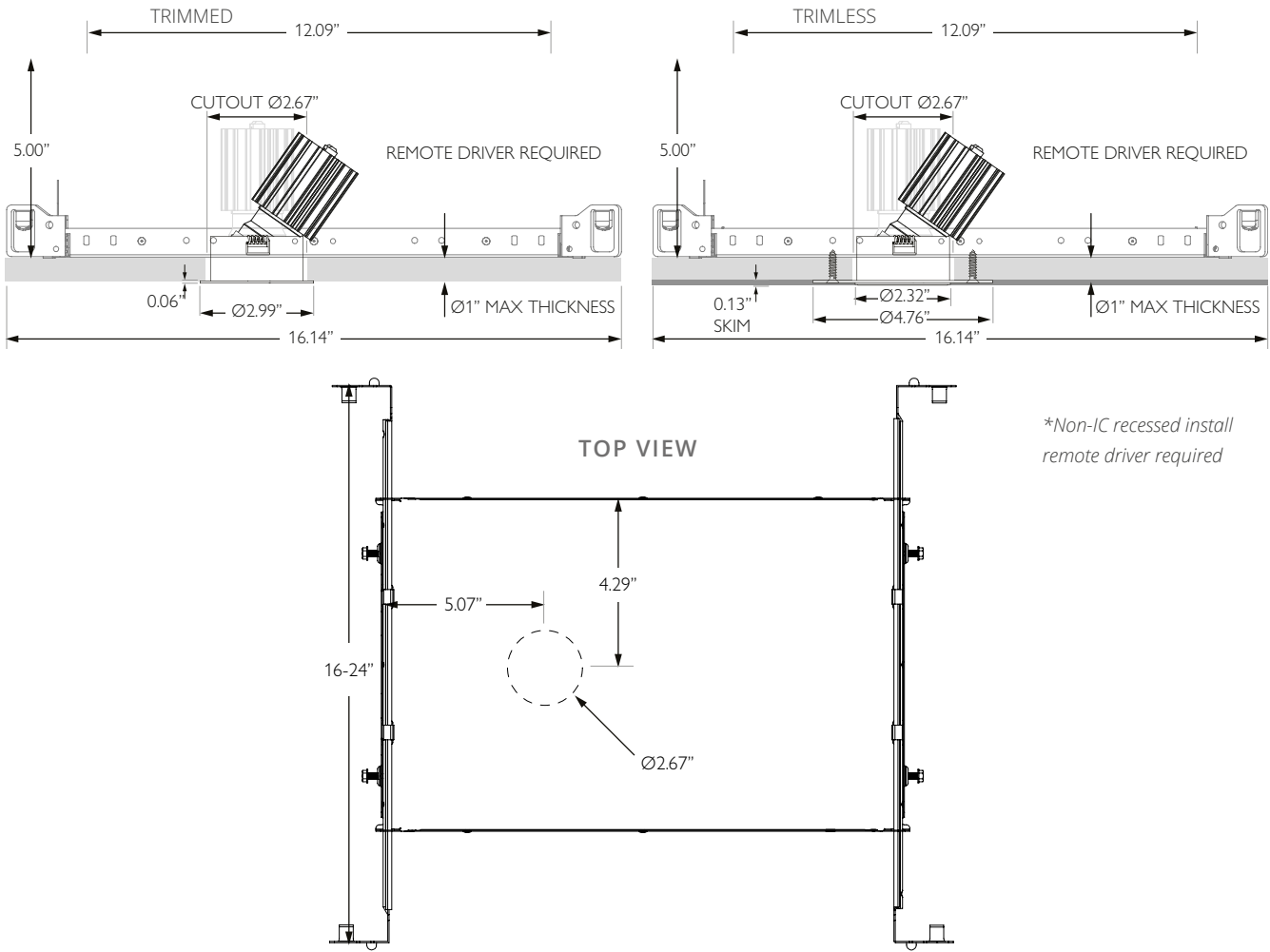
**IC recessed install requires remote driver*

MINIMO PRO INTENSE - NORTH AMERICA

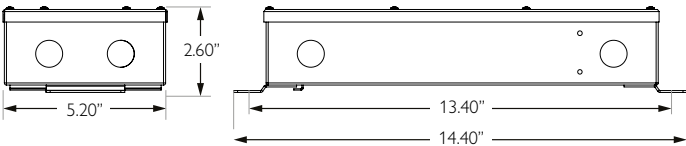
DIMENSIONS & FINISHES

INTENSE LIGHT ENGINE

DIMENSIONS - NEW CONSTRUCTION PAN NON-IC (HP)



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



MINIMO PRO INTENSE - NORTH AMERICA

DIMENSIONS & FINISHES

INTENSE LIGHT ENGINE

TRIM & APERTURE TYPES



TRIMMED
PINHOLE



TRIMLESS
PINHOLE



TRIMMED
BEVELED

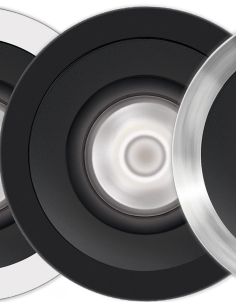


TRIMLESS
BEVELED

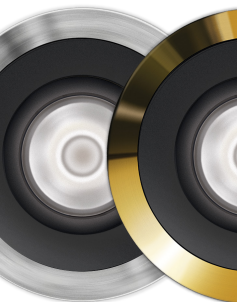
TRIM FINISHES



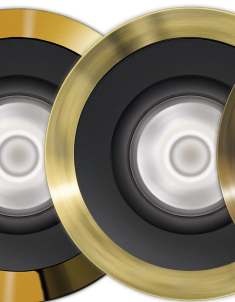
WHITE



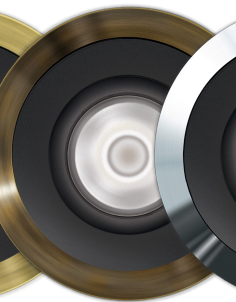
BLACK



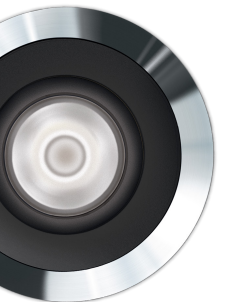
BRUSHED
ALUMINUM



POLISHED
BRASS



BRUSHED
BRASS



RUBBED
BRONZE



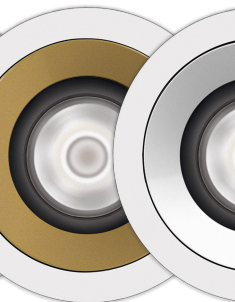
POLISHED
CHROME

APERTURE FINISHES

BEVELED



BLACK



MATTE GOLD



WHITE

PINHOLE



WHITE



BLACK

MINIMO PRO INTENSE - NORTH AMERICA

DRIVERS & POWER SUPPLIES - NORTH AMERICA

INTENSE LIGHT ENGINE

30W | 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 to 3 in series	1 to 3 in series	1 to 3 in series	1 to 3 in series	mm	318	130	61
Order Code	HIC-MNPNA-aa-IO-010G	HCP-MNPNA-aa-IO-010G	HP-MNPNA-aa-IO-010G	HRM-MNPNA-aa-IO-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')

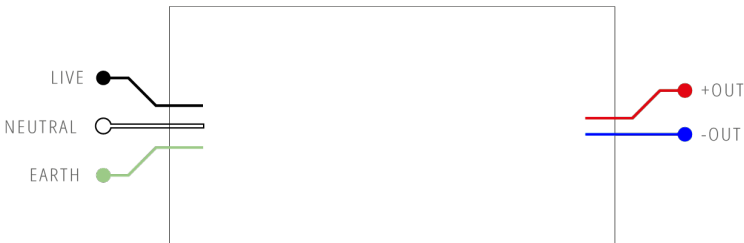


	HIC	HCP	HP	HRM		L	W	H
Max. Lights	1 to 3 in series	1 to 3 in series	1 to 3 in series	1 to 3 in series	mm	318	130	61
Order Code	HIC-MNPNA-aa-IO-DALI	HCP-MNPNA-aa-IO-DALI	HP-MNPNA-aa-IO-DALI	HRM-MNPNA-aa-IO-DALI	in	12.52	5.12	2.4

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-IO-PHSD	HCP-MNPNA-aa-IO-PHSD	HP-MNPNA-aa-IO-PHSD	HRM-MNPNA-aa-IO-PHSD	in	12.52	5.12	2.4

Replace aa with Trim type.

MINIMO PRO INTENSE - NORTH AMERICA

PHOTOMETRY

INTENSE LIGHT ENGINE

OUTPUT SCALING

CCT	Output Multiplier	CRI	R9 Typ.	TM-30: Rf	TM-30: Rg	Max Lm
2400K	-	-	-	-	-	-
2700K	0.90	92	50	90	99	595
3000K	1.00	92	50	90	99	661
3500K	1.00	92	50	90	99	661
4000K	1.00	90	50	90	98	661

Colour Consistency: 2 SDCM at 2700K / 3000K, 3DCM at 3500 / 4000K

PHOTOMETRY

ULTRA NARROW				<table><tr><td>Cd: 0</td><td>90°</td><td>0.19m</td><td>12512lx</td><td>1390fc</td><td>0.6'</td></tr><tr><td>2092</td><td>80°</td><td>1m</td><td></td><td></td><td>3'</td></tr><tr><td>4183</td><td>70°</td><td>0.39m</td><td>3128lx</td><td>348fc</td><td>1.2'</td></tr><tr><td>6275</td><td>60°</td><td>2m</td><td></td><td></td><td>6'</td></tr><tr><td>8367</td><td>50°</td><td>0.58m</td><td>1390lx</td><td>154fc</td><td>1.7'</td></tr><tr><td>10458</td><td>40°</td><td>3m</td><td></td><td></td><td>9'</td></tr><tr><td>12550</td><td></td><td>0.77m</td><td>782lx</td><td>87fc</td><td>2.3'</td></tr><tr><td></td><td></td><td>4m</td><td></td><td></td><td>12'</td></tr><tr><td></td><td></td><td>0.96m</td><td>500lx</td><td>56fc</td><td>2.9'</td></tr><tr><td></td><td></td><td>5m</td><td></td><td></td><td>15'</td></tr><tr><td></td><td></td><td></td><td></td><td>39fc</td><td>3.5'</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td>18'</td></tr></table>	Cd: 0	90°	0.19m	12512lx	1390fc	0.6'	2092	80°	1m			3'	4183	70°	0.39m	3128lx	348fc	1.2'	6275	60°	2m			6'	8367	50°	0.58m	1390lx	154fc	1.7'	10458	40°	3m			9'	12550		0.77m	782lx	87fc	2.3'			4m			12'			0.96m	500lx	56fc	2.9'			5m			15'					39fc	3.5'						18'
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Delivered Flux	661 lm																																																																											
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MEDIUM				<table><tr><td>Cd: 0</td><td>90°</td><td>0.32m</td><td>5754lx</td><td>639fc</td><td>1.0'</td></tr><tr><td>967</td><td>80°</td><td>1m</td><td></td><td></td><td>3'</td></tr><tr><td>1933</td><td>70°</td><td>0.63m</td><td>1439lx</td><td>160fc</td><td>1.9'</td></tr><tr><td>2900</td><td>60°</td><td>2m</td><td></td><td></td><td>6'</td></tr><tr><td>3867</td><td>50°</td><td>0.95m</td><td>639lx</td><td>71fc</td><td>2.9'</td></tr><tr><td>4833</td><td>40°</td><td>3m</td><td></td><td></td><td>9'</td></tr><tr><td>5800</td><td></td><td>1.27m</td><td>360lx</td><td>40fc</td><td>3.8'</td></tr><tr><td></td><td></td><td>4m</td><td></td><td></td><td>12'</td></tr><tr><td></td><td></td><td>1.58m</td><td>230lx</td><td>26fc</td><td>4.8'</td></tr><tr><td></td><td></td><td>5m</td><td></td><td></td><td>15'</td></tr><tr><td></td><td></td><td></td><td></td><td>18fc</td><td>5.7'</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td>18'</td></tr></table>	Cd: 0	90°	0.32m	5754lx	639fc	1.0'	967	80°	1m			3'	1933	70°	0.63m	1439lx	160fc	1.9'	2900	60°	2m			6'	3867	50°	0.95m	639lx	71fc	2.9'	4833	40°	3m			9'	5800		1.27m	360lx	40fc	3.8'			4m			12'			1.58m	230lx	26fc	4.8'			5m			15'					18fc	5.7'						18'
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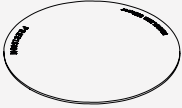
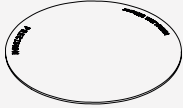
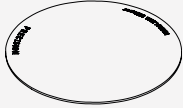
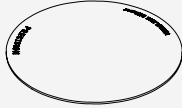
FLOOD				<table><tr><td>Cd: 0</td><td>90°</td><td>0.54m</td><td>1813lx</td><td>201fc</td><td>1.6'</td></tr><tr><td>308</td><td>80°</td><td>1m</td><td></td><td></td><td>3'</td></tr><tr><td>617</td><td>70°</td><td>1.07m</td><td>453lx</td><td>50fc</td><td>3.2'</td></tr><tr><td>925</td><td>60°</td><td>2m</td><td></td><td></td><td>6'</td></tr><tr><td>1233</td><td>50°</td><td>1.61m</td><td>201lx</td><td>22fc</td><td>4.8'</td></tr><tr><td>1542</td><td>40°</td><td>3m</td><td></td><td></td><td>9'</td></tr><tr><td>1850</td><td></td><td>2.14m</td><td>113lx</td><td>13fc</td><td>6.4'</td></tr><tr><td></td><td></td><td>4m</td><td></td><td></td><td>12'</td></tr><tr><td></td><td></td><td>2.68m</td><td>73lx</td><td>8fc</td><td>8.0'</td></tr><tr><td></td><td></td><td>5m</td><td></td><td></td><td>15'</td></tr><tr><td></td><td></td><td></td><td></td><td>6fc</td><td>9.6'</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td>18'</td></tr></table>	Cd: 0	90°	0.54m	1813lx	201fc	1.6'	308	80°	1m			3'	617	70°	1.07m	453lx	50fc	3.2'	925	60°	2m			6'	1233	50°	1.61m	201lx	22fc	4.8'	1542	40°	3m			9'	1850		2.14m	113lx	13fc	6.4'			4m			12'			2.68m	73lx	8fc	8.0'			5m			15'					6fc	9.6'						18'
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WIDE FLOOD				<table><tr><td>Cd: 0</td><td>90°</td><td>0.93m</td><td>660lx</td><td>73fc</td><td>2.8'</td></tr><tr><td>117</td><td>80°</td><td>1m</td><td></td><td></td><td>3'</td></tr><tr><td>233</td><td>70°</td><td>1.87m</td><td>165lx</td><td>18fc</td><td>5.6'</td></tr><tr><td>350</td><td>60°</td><td>2m</td><td></td><td></td><td>6'</td></tr><tr><td>467</td><td>50°</td><td>2.80m</td><td>73lx</td><td>8fc</td><td>8.4'</td></tr><tr><td>583</td><td>40°</td><td>3m</td><td></td><td></td><td>9'</td></tr><tr><td>700</td><td></td><td>3.73m</td><td>41lx</td><td>5fc</td><td>11.2'</td></tr><tr><td></td><td></td><td>4m</td><td></td><td></td><td>12'</td></tr><tr><td></td><td></td><td>4.66m</td><td>26lx</td><td>3fc</td><td>14.0'</td></tr><tr><td></td><td></td><td>5m</td><td></td><td></td><td>15'</td></tr><tr><td></td><td></td><td></td><td></td><td>2fc</td><td>16.8'</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td>18'</td></tr></table>	Cd: 0	90°	0.93m	660lx	73fc	2.8'	117	80°	1m			3'	233	70°	1.87m	165lx	18fc	5.6'	350	60°	2m			6'	467	50°	2.80m	73lx	8fc	8.4'	583	40°	3m			9'	700		3.73m	41lx	5fc	11.2'			4m			12'			4.66m	26lx	3fc	14.0'			5m			15'					2fc	16.8'						18'
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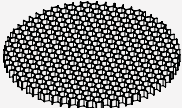
OPTICS

There are 5 tool-less interchangeable optics, cross reference the text on the optic disc for beam.

Optic Disc	Optic Disc	Optic Disc	Optic Disc	Optic Disc
				
Ultra Narrow Disc FWHM 11 deg Order Code 921-01	Narrow Disc FWHM 14 deg Order Code 921-02	Medium Disc FWHM 18 deg Order Code 921-03	Flood Disc FWHM 30 deg Order Code 921-04	Wide Flood Disc FWHM 50 deg Order Code 921-05

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" Order Code 995-32-BK	1/4 CTO W32xH1.8mm W1.26xH0.07" Order Code 997-1/4CTO-32

MINIMO PRO INTENSE - NORTH AMERICA

FEATURE MAP

INTENSE LIGHT ENGINE

