

MINIMO PRO TUNABLE WHITE - NORTH AMERICA

precision
by luminii

PRODUCT OVERVIEW

TUNABLE WHITE LIGHT ENGINE



OVERVIEW

Minimo Pro Tunable White - North America is a Constant Current single source pro-series downlight with the option of 2 CCT tuning ranges (1800-3000K / 2700-5000K) 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 902lm | 12.60W light engine has a max peak intensity of 3600cd. The integral accessory holder can accommodate 32mm lenses and louvers.

PERFORMANCE

	Tunable White			
	Medium	Wide	V. Wide	U. Wide
FWHM	25°	32°	46°	56°
Luminous Flux	874 lm	902 lm	892 lm	877 lm
Peak Intensity	3600 cd	2930 cd	1560 cd	1080 cd
CCT	1800-3000K 2700-5000K			
CRI Min.	92 92			
LED Current	0.350 A			
Voltage	36 V			
Input Wattage	12.6 W			
Efficacy	71.6 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	TWSO <i>Tunable White</i>	18K30K <i>1800K-3000K</i>	ME <i>Medium 25°</i>	NA <i>Trimless</i>	WH <i>White</i>
	A <i>Adjustable</i>	TL <i>Trimless</i>	BV <i>Beveled</i> ²		27K50K <i>2700K-5000K</i>	WD <i>Wide 32°</i>	WH <i>White</i>	BK <i>Black</i>
						VW <i>Very Wide 46°</i>	BK <i>Black</i>	MG <i>Matt Gold</i>
						UW <i>Ultra Wide 56°</i>	AL <i>Br. Aluminium</i>	
							RBZ <i>R. Bronze</i>	
							BR <i>Br. Brass</i>	
							PB <i>P. Brass</i>	
							CH <i>Chrome</i>	

Housing	Model	Trim	Output	CCT	Control
HIC <i>Housing, IC Rated</i> ²	MNPNA <i>Minimo Pro</i>	TR <i>Trimmed</i> ³	TWSO <i>Tunable White</i> ^{1 3}	18K30K <i>1800K-3000K</i> ³	DALI <i>DALI-2</i>
HCP <i>Housing, IC Rated Chicago Pl</i> ²		TL <i>Trimless</i> ³		27K50K <i>2700K-5000K</i> ³	DALI8 <i>DALI-2 DT8</i>
HP <i>New Construction Pan (Non-IC)</i>					010G <i>0-10V Log</i>
HRM <i>Remote Driver (Non-IC)</i>					

Example code: HIC-MNPNA-TR-TWSO-18K30K-DALI8

¹ A driver configuration must always be included with this product, it requires 1 driver per light ² No integral to IC housing driver option available, all drivers will be located remotely. ³ Trim, Output and CCT must match luminaire configuration

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

LIGHT ENGINE SELECTION

This product specification sheet references our 2 channel Tunable White light engine, for Warm Dim please refer to its separate specification sheet.

tunable/**WHITE**

Allows users to adjust the correlated colour temperature (CCT) of their light on demand, with options for analogue, digital, or wireless control. Tuning ranges are available to suit a range of applications.

- 1800K - 3000K
- 2700K - 5000K

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 50,000hrs
Warranty	5 Years

UK PART L	
Part L1A / L1B (Dwellings)	Compliant 110 lm/W
≥75 Lm/W source lumens	Source lm (1386 lm) / Source W (12.60 W)
Part L2A (General)	-
≥95Lm/W delivered lumens	
Part L2A (Display)	Compliant 110 lm/W
≥80 Lm/W source lumens	Source lm (1386 lm) / Source W (12.60 W)

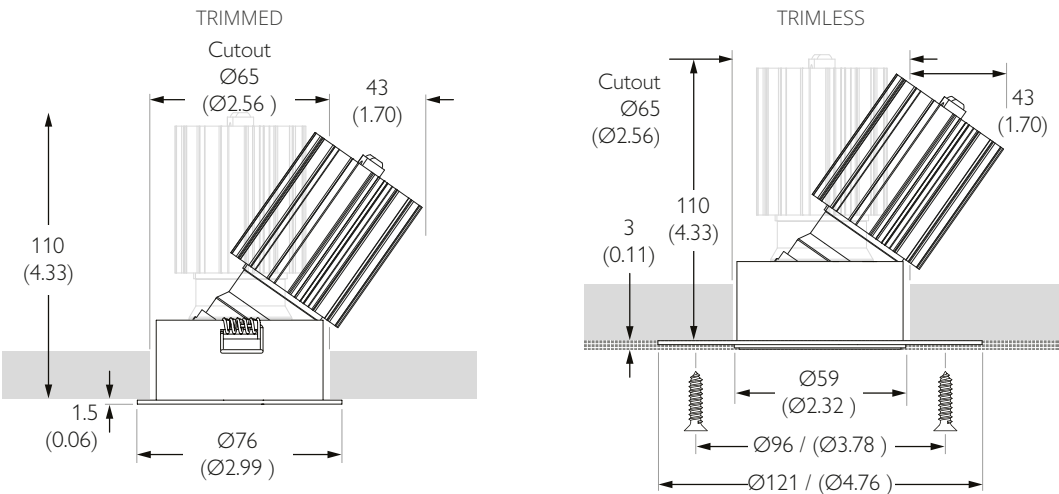
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DIMENSIONS & FINISHES

TUNABLE WHITE LIGHT ENGINE

DIMENSIONS - LUMINAIRE

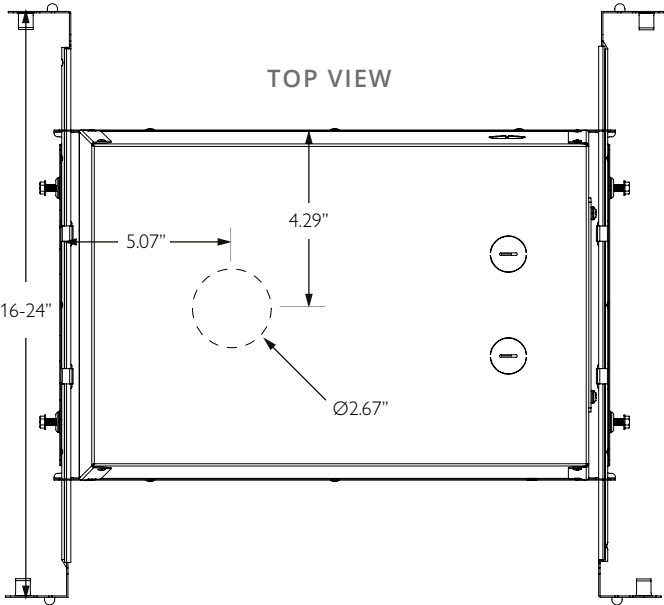
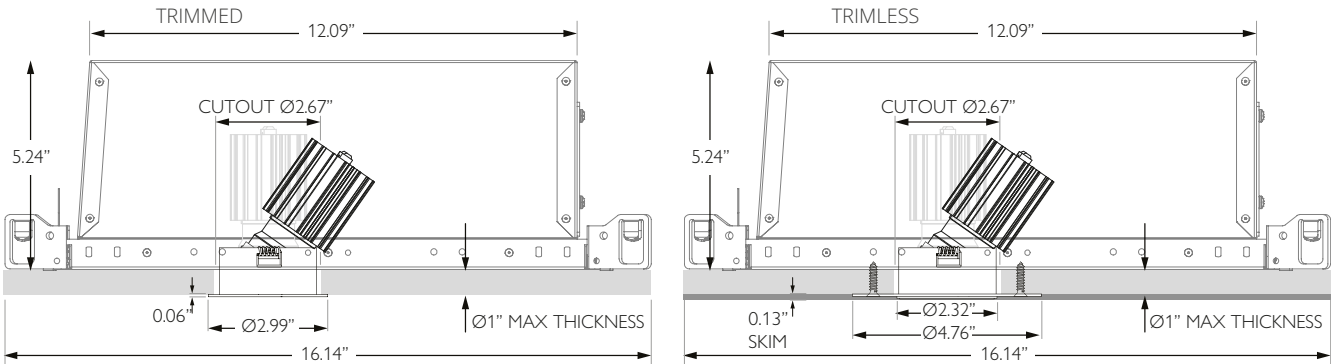


**Non-IC remodel recessed install with remote driver*

MECHANICAL

Location	IP20 Indoor Dry / Damp Location Only	Cutout	ø65mm (2.56")
Mounting	Recessed	Ceiling Thickness	3-25mm (0.12-0.98")
Adjustability	360 Pan 35 Tilt	Product Class	SELV Class III
Lockable	N/A	Material	Machined AL 6063-T6
Accessories	Louver Lenses	Weight	Luminaire 249g 0.55lb Housing 2553g 5.63lb

DIMENSIONS - IC HOUSING (HIC / HCP)



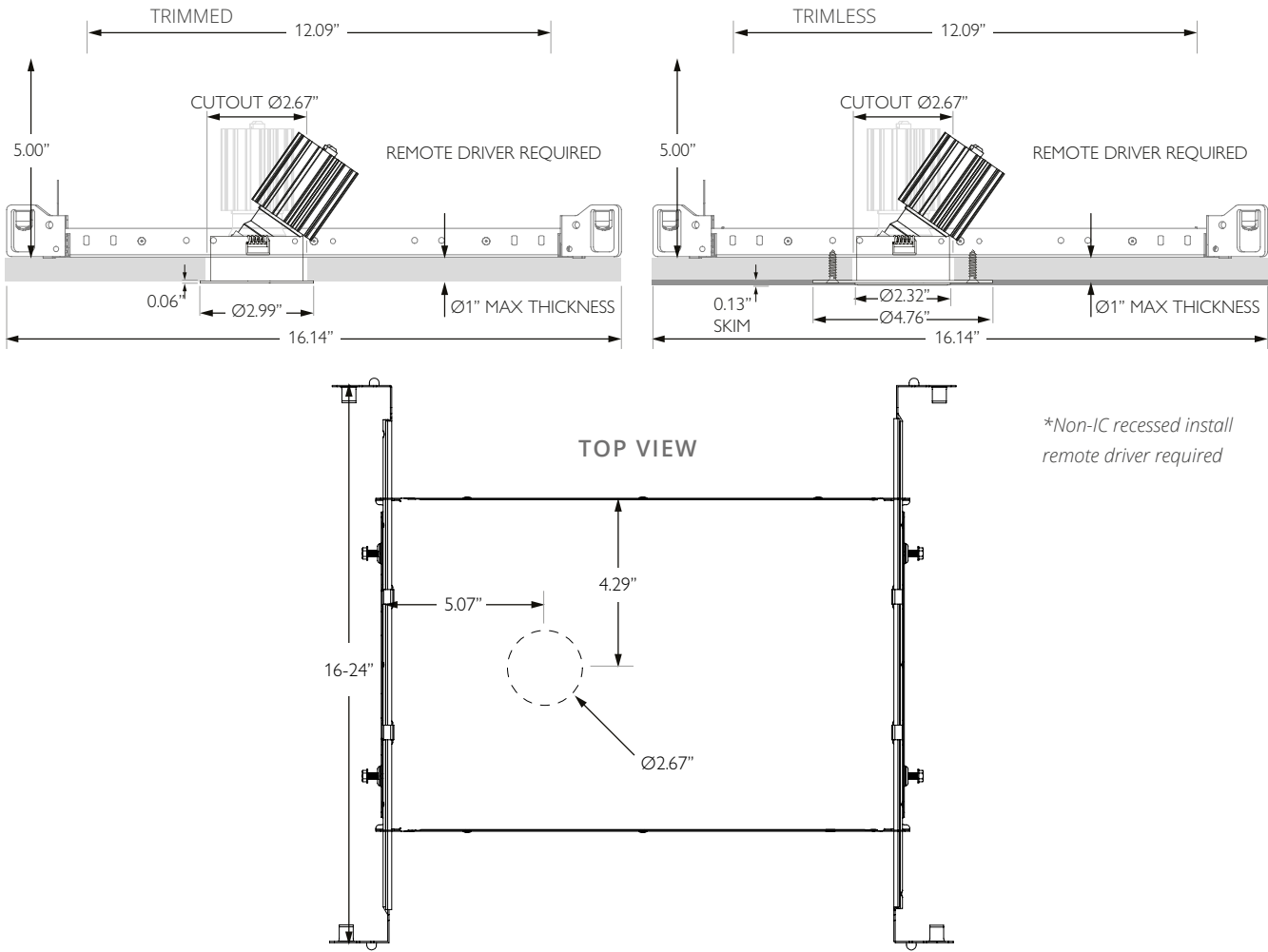
**IC recessed install requires remote driver*

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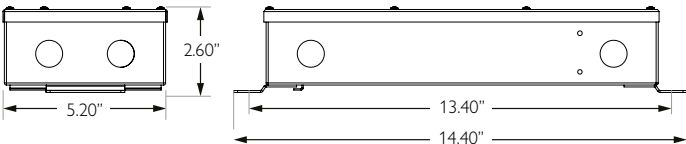
DIMENSIONS & FINISHES

TUNABLE WHITE LIGHT ENGINE

DIMENSIONS - NEW CONSTRUCTION PAN NON-IC (HP)



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



MINIMO PRO TUNABLE WHITE - NORTH AMERICA

DIMENSIONS & FINISHES

TUNABLE WHITE LIGHT ENGINE

TRIM & APERTURE TYPES



TRIMMED
PINHOLE



TRIMLESS
PINHOLE



TRIMMED
BEVELED

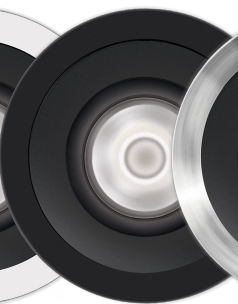


TRIMLESS
BEVELED

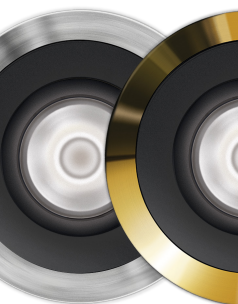
TRIM FINISHES



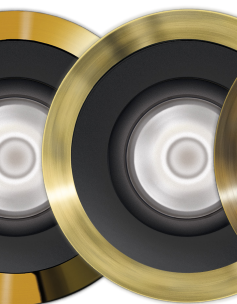
WHITE



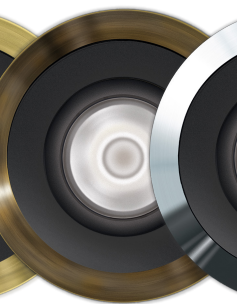
BLACK



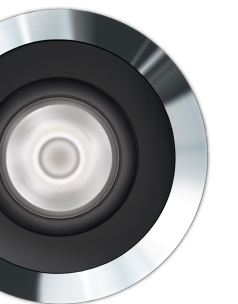
BRUSHED
ALUMINUM



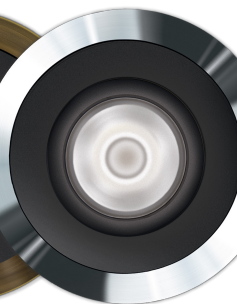
POLISHED
BRASS



BRUSHED
BRASS



RUBBED
BRONZE



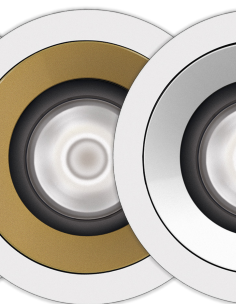
POLISHED
CHROME

APERTURE FINISHES

BEVELED



BLACK



MATTE GOLD



WHITE

PINHOLE



WHITE



BLACK

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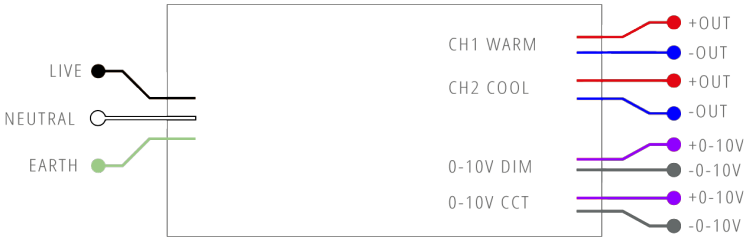
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DRIVERS & POWER SUPPLIES – NORTH AMERICA

TUNABLE WHITE LIGHT ENGINE

50W | 0-10V 2 CH | Remote | Constant Current

Input Voltage	120-277V 50/60 Hz
Driver Type	Remote Constant Current
Location	IP20 Indoor Location Only
Dimming Control	0-10V 2 CH
Min. Dim Level	0.1%
Flicker	IEEE P1789 Compatible No Observable Effect
Wiring Distance	16 AWG - 36m (118') 18 AWG 22m (72')

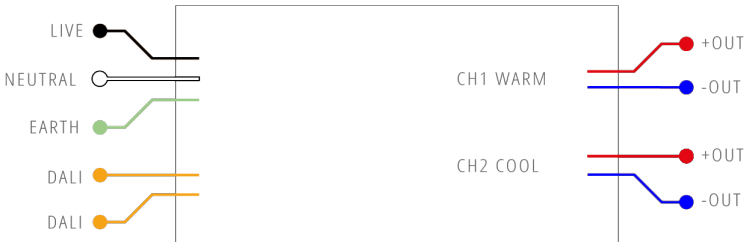


	HIC	HCP	HP	HRM		L	W	H
Max. Lights	1 only	1 only	1 only	1 only	mm	318	130	61
Order Code	HIC-MNPNA-aa-TWSO-bb-010G	HCP-MNPNA-aa-TWSO-bb-010G	HP-MNPNA-aa-TWSO-bb-010G	HRM-MNPNA-aa-TWSO-bb-010G	in	12.52	5.12	2.4

Replace aa with Trim type, bb with CCT range.

50W | DALI-2 DT6 | Remote | Constant Current

Input Voltage	120-277V 50/60 Hz
Driver Type	Remote Constant Current
Location	IP20 Indoor Location Only
Dimming Control	DALI-2 DT6
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-TWSO-bb-DALI	HCP-MNPNA-aa-TWSO-bb-DALI	HP-MNPNA-aa-TWSO-bb-DALI	HRM-MNPNA-aa-TWSO-bb-DALI	in	12.52	5.12	2.4

Replace aa with Trim type, bb with CCT range.

50W | DALI-2 DT8 | Remote | Constant Current

Input Voltage	120-277V 50/60 Hz
Driver Type	Remote Constant Current
Location	IP20 Indoor Location Only
Dimming Control	DALI-2 DT8
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-TWSO-bb-DALI8	HCP-MNPNA-aa-TWSO-bb-DALI8	HP-MNPNA-aa-TWSO-bb-DALI8	HRM-MNPNA-aa-TWSO-bb-DALI8	in	12.52	5.12	2.4

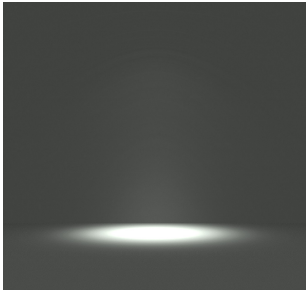
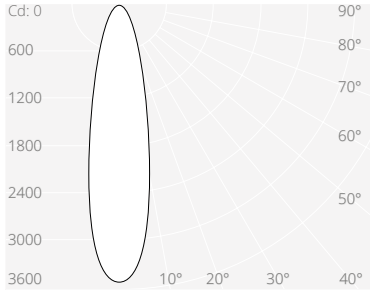
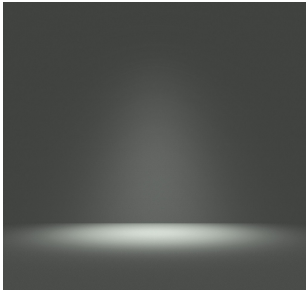
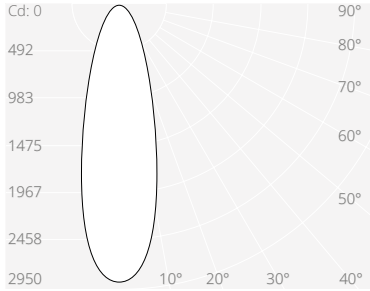
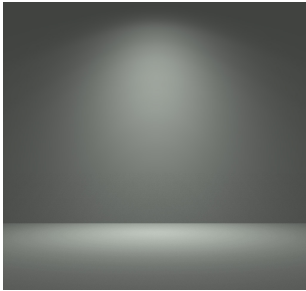
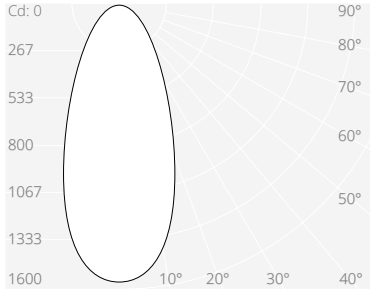
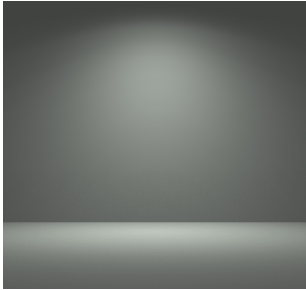
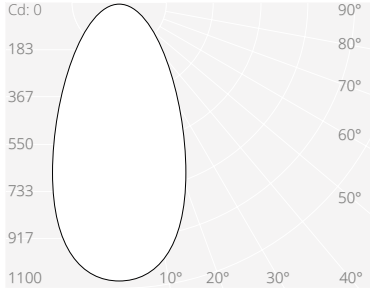
Replace aa with Trim type, bb with CCT range.

OUTPUT SCALING

CCT	Output Multiplier	CRI	R9 Typ.	TM-30: Rf	TM-30: Rg	Max Lm
1800K	0.57	92	68	90	99	514
2400K	0.77	92	80	90	99	695
3000K	1.00	92	75	90	99	902
4000K	1.05	91	70	89	101	947
5000K	1.06	91	65	89	99	956

Colour Consistency: 3 SDCM at 3000K

PHOTOMETRY

MEDIUM FWHM 25° Delivered Flux 874 lm Peak Intensity 3600 cd			<table><tr><td>0.44m</td><td>3600lx</td><td>400fc</td><td>1.3'</td></tr><tr><td>1m</td><td></td><td></td><td>3'</td></tr><tr><td>0.89m</td><td>900lx</td><td>100fc</td><td>2.7'</td></tr><tr><td>2m</td><td></td><td></td><td>6'</td></tr><tr><td>1.33m</td><td>400lx</td><td>44fc</td><td>4.0'</td></tr><tr><td>3m</td><td></td><td></td><td>9'</td></tr><tr><td>1.77m</td><td>225lx</td><td>25fc</td><td>5.3'</td></tr><tr><td>4m</td><td></td><td></td><td>12'</td></tr><tr><td>2.22m</td><td>144lx</td><td>15fc</td><td>6.7'</td></tr><tr><td>5m</td><td></td><td></td><td>15'</td></tr><tr><td></td><td></td><td>11fc</td><td>8.0'</td></tr><tr><td></td><td></td><td></td><td>18'</td></tr></table>	0.44m	3600lx	400fc	1.3'	1m			3'	0.89m	900lx	100fc	2.7'	2m			6'	1.33m	400lx	44fc	4.0'	3m			9'	1.77m	225lx	25fc	5.3'	4m			12'	2.22m	144lx	15fc	6.7'	5m			15'			11fc	8.0'				18'
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WIDE FWHM 32° Delivered Flux 902 lm Peak Intensity 2930 cd			<table><tr><td>0.57m</td><td>2930lx</td><td>326fc</td><td>1.7'</td></tr><tr><td>1m</td><td></td><td></td><td>3'</td></tr><tr><td>1.15m</td><td>733lx</td><td>81fc</td><td>3.4'</td></tr><tr><td>2m</td><td></td><td></td><td>6'</td></tr><tr><td>1.72m</td><td>326lx</td><td>36fc</td><td>5.2'</td></tr><tr><td>3m</td><td></td><td></td><td>9'</td></tr><tr><td>2.29m</td><td>183lx</td><td>20fc</td><td>6.9'</td></tr><tr><td>4m</td><td></td><td></td><td>12'</td></tr><tr><td>2.87m</td><td>117lx</td><td>13fc</td><td>8.6'</td></tr><tr><td>5m</td><td></td><td></td><td>15'</td></tr><tr><td></td><td></td><td>9fc</td><td>10.3'</td></tr><tr><td></td><td></td><td></td><td>18'</td></tr></table>	0.57m	2930lx	326fc	1.7'	1m			3'	1.15m	733lx	81fc	3.4'	2m			6'	1.72m	326lx	36fc	5.2'	3m			9'	2.29m	183lx	20fc	6.9'	4m			12'	2.87m	117lx	13fc	8.6'	5m			15'			9fc	10.3'				18'
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VERY WIDE FWHM 46° Delivered Flux 892 lm Peak Intensity 1560 cd			<table><tr><td>0.85m</td><td>1560lx</td><td>173fc</td><td>2.5'</td></tr><tr><td>1m</td><td></td><td></td><td>3'</td></tr><tr><td>1.70m</td><td>390lx</td><td>43fc</td><td>5.1'</td></tr><tr><td>2m</td><td></td><td></td><td>6'</td></tr><tr><td>2.55m</td><td>173lx</td><td>19fc</td><td>7.6'</td></tr><tr><td>3m</td><td></td><td></td><td>9'</td></tr><tr><td>3.40m</td><td>98lx</td><td>11fc</td><td>10.2'</td></tr><tr><td>4m</td><td></td><td></td><td>12'</td></tr><tr><td>4.24m</td><td>62lx</td><td>7fc</td><td>12.7'</td></tr><tr><td>5m</td><td></td><td></td><td>15'</td></tr><tr><td></td><td></td><td>5fc</td><td>15.3'</td></tr><tr><td></td><td></td><td></td><td>18'</td></tr></table>	0.85m	1560lx	173fc	2.5'	1m			3'	1.70m	390lx	43fc	5.1'	2m			6'	2.55m	173lx	19fc	7.6'	3m			9'	3.40m	98lx	11fc	10.2'	4m			12'	4.24m	62lx	7fc	12.7'	5m			15'			5fc	15.3'				18'
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5m			15'																																																
		5fc	15.3'																																																
			18'																																																
ULTRA WIDE FWHM 56° Delivered Flux 877 lm Peak Intensity 1080 cd			<table><tr><td>1.06m</td><td>1080lx</td><td>120fc</td><td>3.2'</td></tr><tr><td>1m</td><td></td><td></td><td>3'</td></tr><tr><td>2.13m</td><td>270lx</td><td>30fc</td><td>6.4'</td></tr><tr><td>2m</td><td></td><td></td><td>6'</td></tr><tr><td>3.19m</td><td>120lx</td><td>13fc</td><td>9.6'</td></tr><tr><td>3m</td><td></td><td></td><td>9'</td></tr><tr><td>4.25m</td><td>68lx</td><td>8fc</td><td>12.8'</td></tr><tr><td>4m</td><td></td><td></td><td>12'</td></tr><tr><td>5.32m</td><td>43lx</td><td>5fc</td><td>16.0'</td></tr><tr><td>5m</td><td></td><td></td><td>15'</td></tr><tr><td></td><td></td><td>3fc</td><td>19.1'</td></tr><tr><td></td><td></td><td></td><td>18'</td></tr></table>	1.06m	1080lx	120fc	3.2'	1m			3'	2.13m	270lx	30fc	6.4'	2m			6'	3.19m	120lx	13fc	9.6'	3m			9'	4.25m	68lx	8fc	12.8'	4m			12'	5.32m	43lx	5fc	16.0'	5m			15'			3fc	19.1'				18'
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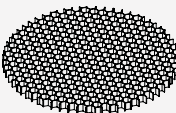
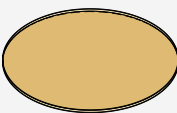
OPTICS

There are 4 interchangeable optics, cross reference the molded ID on the optic for beam option.

Optic	Optic	Optic	Optic
			
Medium TIR Optic Molded ID 15	Very Wide TIR Optic Molded ID 36	Wide TIR Optic Molded ID 24	Ultra Wide TIR Optic Molded ID 50
Order Code HKRG-35-15-PC	Order Code HKRG-35-36-PC	Order Code HKRG-35-24-PC	Order Code HKRG-35-50-PC

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 TUNABLE WHITE - NORTH AMERICA

FEATURE MAP

TUNABLE WHITE LIGHT ENGINE

