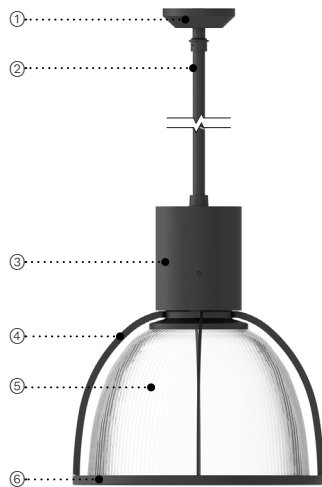# LUMINIS®

PROJECT NAME: **QUANTITY:**   **TYPE:**

ORDERING CODE:

① Heavy duty 45° hang straight swivel, with Ø 5" (127mm) canopy and universal mounting plate.

② Field adjustable suspension stem or silver braided power cable with aircraft safety cable. Also, offered with a catenary suspension attachment.

③ Extruded aluminum driver housing.

④ Set of four side struts.

⑤ **PR1682:** Diffused acrylic prismatic refractor.
PR1687: Aluminum reflector.
Inner surface: multi-faceted specular anodized.
Exterior surface: Satin anodized natural aluminum. Alternate exterior finish (Option RP)

⑥ Struts holder ring. Clear acrylic flat bottom lens (Option CF12) and diffused acrylic flat bottom lens (Option DF12) are available as options.

PR1682

PR1687

MATERIALS

Prisma is made of an extruded aluminum housing designed to optimize the functionality of the driver and solid state components. Prisma is available with a choice of two interchangeable reflectors. Aluminum reflector designed to optimize light source performance and uniformity. Diffused acrylic prismatic refractor with a linear peripheral pattern providing general upward illumination with efficient down lighting.

ELECTRICAL DRIVER

120V/277V driver is 0-10V dimming-ready (min. dim to 1%) with 120-277 multi-volt compatibility (50-60Hz), operating temperature range of -20°C/-4°F to +50°C/122°F, output over voltage protection, output over current protection and output short circuit protection with auto-recovery.
347V driver is 0-10V dimming ready (min. dim to 1%) with operating temperature range of -20°C/-4°F to +50°C/122°F, over current and output short circuit protection.

LED LIGHT ENGINE

Offered in 2700K, 3000K, 3500K & 4000K with 80CRI
70% LED lumen maintenance at 125,000 hours (L70/B50) based on IESNA LM-80-08 LED extrapolated life, calculated per IESNA TM-21-21.

FINISH

Five-stage preparation process includes preheating of cast aluminum parts for air extraction. Polyester powder coating is applied through an electrostatic process, and oven cured for long term finish.

CERTIFICATION

UL Certified to Canadian and U.S. safety standards. Certified for use in for damp location (exception: DMX models are dry location). Rated IP20. Photometric testing performed by an independent laboratory in accordance with IES LM-79-08 standards at 25°C. Actual performance may differ as a result of end-user environment and application.
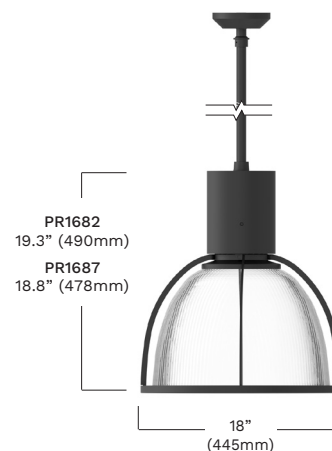
WARRANTY

5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: https://www.acuitybrands.com/support/warranty/terms-and-conditions

MOUNTING

Mounts on a standard 4" (102mm) octagonal electrical box with 3.5" (89mm) C/C mounting holes.

MEASUREMENTS

Maximum weight: 12.6 lbs (5.7 kg)

PR1682
19.3" (490mm)
PR1687
18.8" (478mm)

18"
(445mm)

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PR1682/PR1687
Rev. 05/07/25

ORDERING CODE

*SERIES	*LIGHT OUTPUT		*CCT		*VOLTAGE		CONTROLS	
PR1682	L1L20	2124 lm / 16w	27K	2700K	120	120V	DMX	DMX/RDM dim to dark 0%.[4,5]
	L1L30	3093 lm / 24w	30K	3000K	277	277V	NLTAIR2	nLight AIR 2.0 control embedded in canopy with black antenna[6]
	L1L40	4150 lm / 33w	35K	3500K	347	347V[2]		
	L1L50	5089 lm / 41w	40K	4000K	MVOLT	120V-277V[3]		
	L1L60	5995 lm / 50w[1]						

Delivered lumens calculated at 4000K/80CRI. Typical power consumption. Refer to LCF table for outputs at other CCTs.

LENS/DIFFUSER		*MOUNTING		SUSPENSION LENGTH		FUSE	
CF16	Clear acrylic flat bottom lens[7]	CAT3	Catenary suspension attachment	12IN	12"	FS	Fuse
DC16	Diffused acrylic prismatic bottom conical lens[7,8]	SPG	Silver braided suspension power cord with aircraft cable	24IN	24"		
DF16	Diffused acrylic flat bottom lens[7]	STM	Field-cuttable hang straight suspension stem[9]	36IN	36"		
		TA	3/4" NPT conduit adaptor	48IN	48"		
				60IN	60"		
				Available up to 240" in 12" increments. Required field for SPG, STM.			

EMERGENCY		SHIELDING ACCESSORIES		RING GUARD		*FINISH	
EM10	10W integral emergency battery, 90 min[10]	BC16	Aluminum lower diffuser band[13]	WG16	Zinc plated concentric wire guard[14]	BKT	Jet black
EMC7	7W integral emergency battery, 90 min. Within oversized ceiling canopy.[11]					BZT	Bronze
REM7	Remote emergency battery, 90 min, 7W[12]					CHT	Champagne
						DGT	Gun metal
						GRT	Titanium gray
						MST	Matte silver
						SGT	Steel gray
						WHT	Snow white
						CMC	Custom matched color[15]
						RAL	RAL color[16]

NOTES

*- Denotes a required field

1- Not available with DMX or EM10.

2- 347V not available with DMX, EM10, EMC7, REM7.

3- MVOLT not available with FS.

4- Default dimming curve: Logarithmic. Factory set to address one unless otherwise specified. Refer to DMX Reference Guide for more information (available on website).

5- Housing increases by 2.4" (60.9mm). Not available with L1L60, EM10, EMC7 or REM7. Mounting must be selected, choose between STM or SPG.

6- Available only with 120V or 277V. Installed in Ø11" canopy with STM/SPG. Refer to the mounting image for more details. Not available with DMX, REM7, EMC7, EM10, CAT3, TA.

7- Lumen conversion factor (LCF) 0.94.

8- DC16 not available with WG16 option.

9- If DMX option is selected, STM maximum length is 36" (914mm).

10- Housing will increase by 1.2" (30.5mm). Not available with L1L60. Not available with 347V.

11- EMC7 not available with CAT3 or TA options.

12- Remote mount 50ft - 12" square enclosure with access cover. The remote enclosure must be interior. Cable between fixture and remote box is provided by others. Not available with 347V or CAT3.

13- Available only with PR1682.

14- Not available with DC16, CF16, DF16.

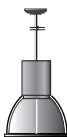15- Contact factory to coordinate custom matching color.

16- Specify RAL number..

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PR1682/PR1687
Rev. 05/07/25

ORDERING CODE

*SERIES	*LIGHT OUTPUT		*CCT		*VOLTAGE		CONTROLS	
PR1687	L1L20	2146 lm / 16w	27K	2700K	120	120V	DMX	DMX/RDM dim to dark 0%.[4,5]
	L1L30	3126 lm / 24w	30K	3000K	277	277V	NLTAIR2	nLight AIR 2.0 control embedded in canopy with black antenna[6]
	L1L40	4194 lm / 33w	35K	3500K	347	347V[2]		
	L1L50	4909 lm / 39w	40K	4000K	MVOLT	120V-277V[3]		
	L1L60	6059 lm / 50w[1]						

Delivered lumens calculated at 4000K/80CRI. Typical power consumption. Refer to LCF table for outputs at other CCTs.

LENS/DIFFUSER		*MOUNTING		SUSPENSION LENGTH		FUSE	
CF16	Clear acrylic flat bottom lens[7]	CAT3	Catenary suspension attachment	12IN	12"	FS	Fuse
DC16	Diffused acrylic prismatic bottom conical lens[7,8]	SPG	Silver braided suspension power cord with aircraft cable	24IN	24"		
DF16	Diffused acrylic flat bottom lens[7]	STM	Field-cuttable hang straight suspension stem[9]	36IN	36"		
		TA	3/4" NPT conduit adaptor	48IN	48"		
				60IN	60"		
				Available up to 240" in 12" increments. Required field for SPG, STM.			

EMERGENCY		RING GUARD		*FINISH		REFLECTOR FINISH	
EM10	10W integral emergency battery, 90 min[10]	WG16	Zinc plated concentric wire guard[13]	BKT	Jet black	RP	Exterior of aluminum reflector to match housing finish[16]
EMC7	7W integral emergency battery, 90 min. Within oversized ceiling canopy.[11]			BZT	Bronze		
REM7	Remote emergency battery, 90 min, 7W[12]			CHT	Champagne		
				DGT	Gun metal		
				GRT	Titanium gray		
				MST	Matte silver		
				SGT	Steel gray		
				WHT	Snow white		
				CMC	Custom matched color[14]		
				RAL	RAL color[15]		

NOTES

*- Denotes a required field

1- Not available with DMX or EM10.

2- 347V not available with DMX, EM10, EMC7, REM7.

3- MVOLT not available with FS.

4- Default dimming curve: Logarithmic. Factory set to address one unless otherwise specified. Refer to DMX Reference Guide for more information (available on website).

5- Housing increases by 2.4" (60.9mm). Not available with L1L60, EM10, EMC7 or REM7. Mounting must be selected, choose between STM or SPG.

6- Available only with 120V or 277V. Installed in Ø11" canopy with STM/SPG. Refer to the mounting image for more details. Not available with DMX, REM7, EMC7, EM10, CAT3, TA.

7- Lumen conversion factor (LCF) 0.94.

8- DC16 not available with WG16 option.

9- If DMX option is selected, STM maximum length is 36" (914mm).

10- Housing will increase by 1.2" (30.5mm). Not available with L1L60. Not available with 347V.

11- EMC7 not available with CAT3 or TA options.

12- Remote mount 50ft - 12" square enclosure with access cover. The remote enclosure must be interior. Cable between fixture and remote box is provided by others. Not available with 347V or CAT3.

13- Not available with DC16, CF16, DF16.

14- Contact factory to coordinate custom matching color.

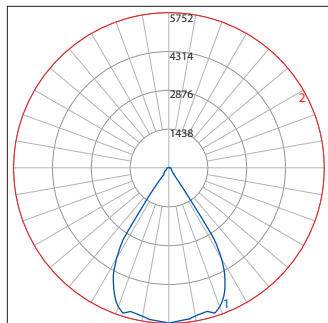15- Specify RAL number

16- Available only with PR1687..

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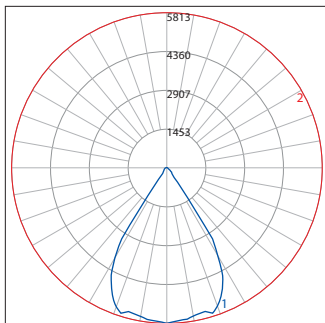
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TYPICAL PHOTOMETRY SUMMARY

PR1682-L1L60

5752	
4314	
2876	
1438	

Total Lms: 5995 Lumens
Total Input Watts: 50.0 W
Efficacy: 120 Lumens/Watt
CCT/CRI: 4000K/80
Maximum Candela: 5,752 @ 0°H/0°V

PR1687-L1L60

5813	
4360	
2907	
1453	

Total Lms: 6059 Lumens
Total Input Watts: 50.0 W
Efficacy: 121 Lumens/Watt
CCT/CRI: 4000K/80
Maximum Candela: 5,813 @ 0°H/0°V

LUMEN CONVERSION FACTOR (LCF)		
CCT	CRI	LCF
2700K	80	0.92
3000K	80	0.95
3500K	80	0.98
4000K	80	1.00

All Photometry shown use the 80CRI 4000K LEDs.
Please visit our web site www.luminis.com for complete I.E.S. file.

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OPTION DETAILS

NLTAIR2 (STM & SPG) 📶
Ø 11" (287mm)
1.5" (38mm)

CANOPY TOP VIEW
Ø11" (287mm)
Mounting points on ceiling (4x)
2" (50.8mm)
Junction box (for reference)
3.5" (88.9mm)
3" (76.2mm)
6" (152.4mm)

NLTAIR2 (STM & SPG)
Ø11" canopy with nLight AIR Control gen2 and black antenna.

For the following light outputs: L1L20, L1L30, L1L40, L1L50, L1L60

CF16
Clear acrylic flat bottom lens with nickel plated clamp ring.

DC16
Diffused acrylic prismatic bottom conical lens with nickel plated clamp ring.

DF16
Diffused acrylic flat bottom lens with nickel plated clamp ring.

CAT3

4.49" (114mm)
Ø 1/4" or Ø 1/2" aircraft cable
PR1682 24.8" (630mm)
PR1687 24.3" (618mm)
Power cable in
Control cable in
Catenary

ANGLE ADJUSTMENT MECHANISM
12° 12°

Power cable in:
3 conductor x 14 gauge AWG. The 2 cable glands located at the top can accommodate a cable ranging from **10mm - 14mm**.

Control cable in:
The 2 cable glands on the bottom can accommodate a cable ranging from **6mm - 11mm**.

CAT3
Cast aluminum catenary junction box with 2 sealed connectors for 0.24"-0.47" (6mm-12mm) power cable. Ready to accept 1/4" or 1/2" stainless steel suspension cable.
Weight: 15.9 lbs (7.2 kg)
(Structural design, power cable, control cable, stainless steel catenary cable, cable fittings, and fittings for mounting to support structure provided by others.)

SPG
Silver braided power cord with onsite adjustable aircraft safety cable.
Second cord added to models with the following options: DMX.

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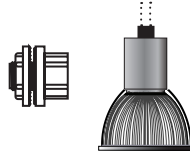
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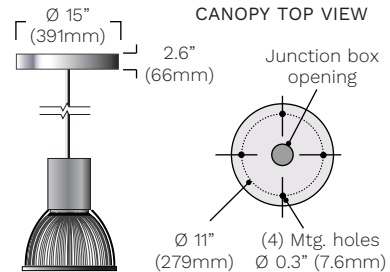
OPTION DETAILS

STM
Heavy duty 45° hang straight swivel, with Ø 5" (127mm) canopy and universal mounting plate. Ø 7/8" (22mm) suspension stem with aircraft safety cable.

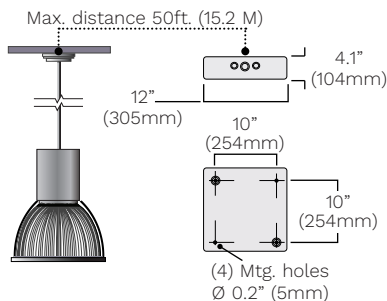NOTE: If DMX/RDM is selected, maximum length is 36" (914mm).

TA
3/4" NPT Suspension conduit adaptor (conduit by others). Supplied with 3 X 18 ga. X 36" lg. wiring. (Longer wires to be specified.)

CANOPY TOP VIEW

Ø 15" (391mm)
2.6" (66mm)
Junction box opening
Ø 11" (279mm)
(4) Mtg. holes Ø 0.3" (7.6mm)

EMC7
7W Canopy mount integral 120/277V emergency battery pack.

Max. distance 50ft. (15.2 M)
4.1" (104mm)
12" (305mm)
10" (254mm)
10" (254mm)
(4) Mtg. holes Ø 0.2" (5mm)

REM7
7W Remote mount 120/277V emergency battery pack. Test switch provided within enclosure with 5" (127mm) leads.

BC16
Aluminum lower diffuser band, same color as luminaire.

PR1682 only

Exterior same color as luminaire

RP
Inner reflector specular aluminum.
Exterior same color as luminaire.

PR1687 only

WG16
Zinc plated concentric ring guard

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