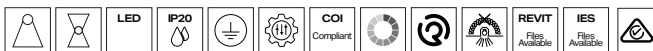
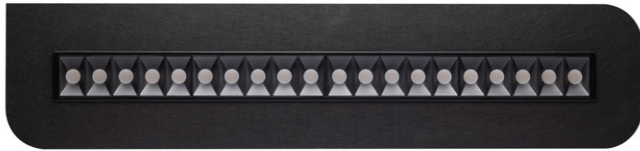


SILENCIO: ARIN

HARMONISING LIGHT & SOUND



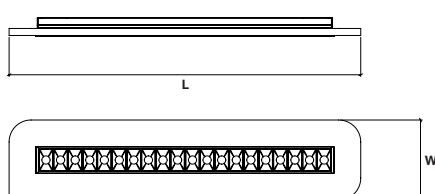
KEY FAMILY DETAILS	
Optical System:	Hybrid Pods (Black or White)
Mounting Type:	Pendant
Finish Options:	Opera, Savoye or Flatiron as standard. Other colours via customisation.
System Warranty:	5 years
CCT:	4000K
CRI (Ra):	90+
R9:	55+
COI Compliant:	Yes (COI≤2.7) (except 3000K models)
Melanopic Ratio	0.54+
Circadian Stimulus CS [%] (*)	12%+
Circadian Light Cla [lux] (*)	85+

(*) For 150lux corneal photopic illumination. As a guide only.

STANDARD COLOURS



MECHANICAL DRAWING				
Physical Parameters	Luminaire Dimensions			Weight
Code	L [mm]	W [mm]	H [mm]	[kg]
EL-ARI-1100-244/954	1200	275	62	4.7
EL-ARI-1103-244/954	1200	275	62	4.7
EL-ARI-1106-244/954	1200	275	62	4.7
EL-ARI-1109-244/954	1200	275	62	4.7
EL-ARI-1112-244/954	1200	275	62	4.6
EL-ARI-1115-244/954	1200	275	62	4.6
EL-ARI-1118-244/954	1200	275	62	4.7
EL-ARI-1121-244/954	1200	275	62	4.7
EL-ARI-1124-244/954	1200	275	62	4.7
EL-ARI-1127-244/954	1200	275	62	4.7
EL-ARI-1130-254/955	1200	275	62	4.6
EL-ARI-1133-254/955	1200	275	62	4.6



Custom sizes available upon request. ie. 2310mm Length

Within commercial interiors, the quality of room acoustics is equally important as the quality of light. Eagle Lighting has created a product that perfects both in a single package...

Meet the Arin - a modern suspended pendant made in Melbourne that offers best-in-class lighting and acoustic performance.

APPLICATION

A unique pendant that solves the problem of ineffective lighting and poor room acoustics in a single package. Designed, tested and manufactured in Australia, Arin advances lighting performance while simultaneously reducing acoustic reverberation.

DESIGN

Arin is available in 24 on-point colours to complement architectural interior intent, offering creative expression by using colour accents. As with light and acoustics, colour subconsciously induces biological reactions and influences mood, emotion, and behaviour.

Arin incorporates a noise-absorbing recycled fibre that forms the surrounding component of a central linear array of light chambers.

SOUND ABSORPTION

Acoustic conditions profoundly impact human performance and are particularly important for complex cognitive performance and productivity. As a result, acoustic comfort is a key deliverable in commercial office and Education projects.

Arin is engineered and scientifically tested to control reverberated noise and echo. Within the range relevant to communication (1000-2000 Hz), the noise absorption benefits of the Arin is at peak performance.

OPTICS

Arin provides premium quality, low glare illumination, with high colour rendering accuracy and options for colour changing and personalised lighting scenes.

A central array of high specification ABS injection moulded chambers and beam shaping microstructured film combines to provide optimum luminescence.

CONTROLS

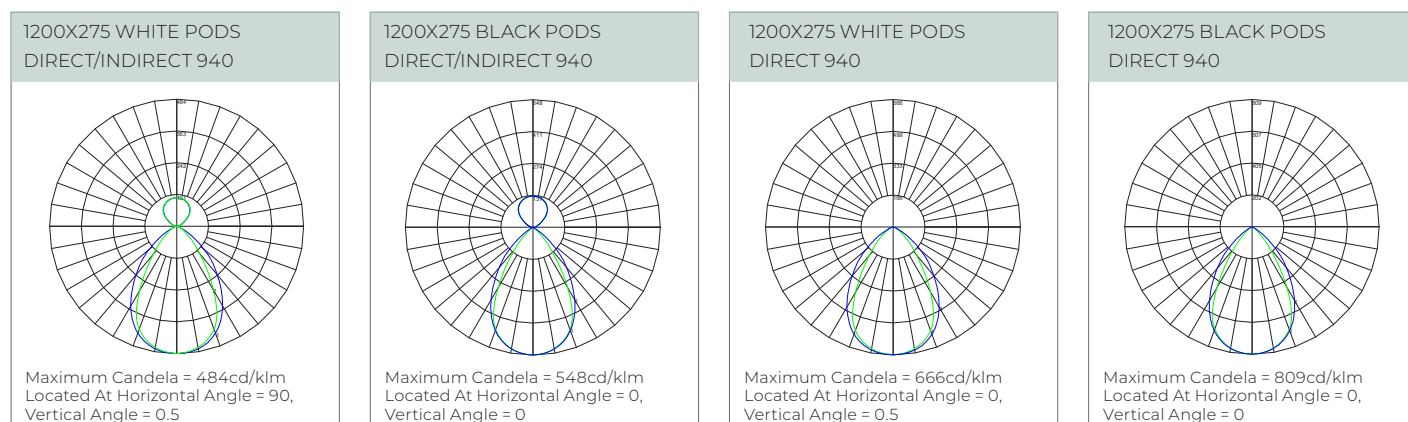
Optional Organic Response Sensor Nodes available in black or white integral to the pendant that responds to ambient light level and occupancy, pre-set lighting scenes and tuneable white light.

INSTALLATION

Fast installation via wire pendant package. Height adjustment via friction lock in the luminaire.

Cable entry via knockout in the top plate to access terminal block. Supplied 5 core power cable in clear colour, one small ceiling cup, one large in either black or white.

HARMONISING LIGHT & SOUND



330 LUX TARGET ILLUMINANCE									
Code	CCT1 [K] (direct)	CCT2 [K] (indirect)	Power Initial [W]	Final Power [W]	Luminaire Lumens [lm]	Colour/ Finish	Target Spacing	UGR Rounded	CLO L100B50 Lifetime [hrs]
									LM80 duration: 12,000hrs
EL-ARI-1100-244	4000K		19	23	2137	Opera	2.4m x 2.4m	19	72,000
EL-ARI-1100-954	4000K		19	23	2137	Opera	2.4m x 2.4m	19	72,000
EL-ARI-1103-244	4000K		22	28	2132	Opera	2.4m x 2.4m	19	72,000
EL-ARI-1103-954	4000K		22	28	2132	Opera	2.4m x 2.4m	19	72,000
EL-ARI-1106-244	4000K		23	28	2706	Opera	single	-	72,000
EL-ARI-1106-954	4000K		23	28	2706	Opera	single	-	72,000
EL-ARI-1109-244	4000K		26	32	2504	Opera	single	-	72,000
EL-ARI-1109-954	4000K		26	32	2504	Opera	single	-	72,000
EL-ARI-1112-244	4000K		18	23	1970	Opera	single	-	72,000
EL-ARI-1112-954	4000K		18	23	1970	Opera	single	-	72,000
EL-ARI-1115-244	4000K		22	27	1734	Opera	single	-	72,000
EL-ARI-1115-954	4000K		22	27	1734	Opera	single	-	72,000
EL-ARI-1118-244	4000K	3000K	23	28	2683	Opera	single	-	72,000
EL-ARI-1118-954	4000K	3000K	23	28	2683	Opera	single	-	72,000
EL-ARI-1121-244	4000K	3000K	26	32	2473	Opera	single	-	72,000
EL-ARI-1121-954	4000K	3000K	26	32	2473	Opera	single	-	72,000
EL-ARI-1124-244	3000K		20	24	2168	Opera	2.4m x 2.4m	19	72,000
EL-ARI-1124-954	3000K		20	24	2168	Opera	2.4m x 2.4m	19	72,000
EL-ARI-1127-244	3000K		24	29	2169	Opera	2.4m x 2.4m	19	72,000
EL-ARI-1127-954	3000K		24	29	2169	Opera	2.4m x 2.4m	19	72,000
EL-ARI-1130-254	2700-6500K		24	30	2630	Opera	single	-	72,000
EL-ARI-1130-955	2700-6500K		24	30	2630	Opera	single	-	72,000
EL-ARI-1133-254	2700-6500K		26	31	2238	Opera	single	-	72,000
EL-ARI-1133-955	2700-6500K		26	31	2238	Opera	single	-	72,000

WIRING OPTIONS	SUFFIX
DALI CLO	-244
Organic Response CLO	-954
Tuneable White DALI CLO	-254
Tuneable White ORT CLO	-955

MOUNTING ACCESSORIES	CODE
Suspension large round ceiling w/mains & wire 1.5m black	EL-ACC-541-000
Suspension small round ceiling w/wire 1.5m black	EL-ACC-542-000
Suspension large round ceiling w/mains & wire 1.5m white	EL-ACC-543-000
Suspension small round ceiling w/wire 1.5m white	EL-ACC-544-000

HARMONISING LIGHT & SOUND

Cube™

PRODUCT SPECIFICATIONS

Product Name Cube™
Composition 100% Polyester Fibre
Panel Dimensions 1220mm x 2440mm
Tolerance (+5mm) x (+10mm)
Thickness 12mm 24mm Tolerance (+/-6%) (+/-6%)
Weight 2400gsm 3600gsm

ENVIRONMENTAL

Autex is committed to best practice through our ISO 9001 and ISO 14001 certified Quality and Environmental Management Systems. Autex Cube™ contains a minimum of 60% previously recycled polyester fibre (from PET bottle-flake). Off-cuts and manufacturing waste are re-used or recycled wherever possible. Autex Cube™ is manufactured from 100% polyester fibres and does not contain formaldehyde binders. Autex polyester fibres support safer indoor air quality and will not become a potential airborne pollutant.

THERMAL PERFORMANCE

(Internally tested by Autex Lab)
Cube 24mm R0.82 (@15°C)

MICROBIAL RESISTANCE

ASTM G21-15
Growth Rating: 0 (No growth)
Cube™ does not promote the growth of moulds and mildew.

VOC EMISSIONS

Autex polyester has been tested for chemical emissions in accordance with ASTM D5116 and is considered as a low VOC product.
VOC concentration: 0.009 mg/m³ (7 days)

WATER VAPOUR SORPTION

ASTM C1104 / C1104M-13a
Test conditions: 49°C, 95%RH
Water vapour absorbed and adsorbed after
4 days: 0.4% by weight

FIRE RATINGS

Cube™ has been evaluated using the following test methods:

ISO 9705: 1993

Classification: Group 1-S
Smoke Production Rate: <5.0m²/s
As required by NZBC C/VM2

AS ISO 9705 - 2003

Classification: Group 1
(SMOGRArc): <100m²/s²
Assessed using methodology AS ISO 9705 - 2003
in accordance with AS 5637.1:2015, as required
by BCA Specification C1.10-4
FI 4974 dated 16th September, 2012
FAR 4055-2 dated 8th October 2013

EN13501-1:2007+A1:2009

B - s2, d2 (Cube™ 12mm)
WF336911 dated 25th February 2014

ASTM E-84-15a

Class A, FS:0 - SD:45 (Cube™ 1/2")
RJ4479-2 dated 25th January, 2016
Class A, FS:0 - SD:65 (Cube™ 1")
RJ4479-1 dated 25th January, 2016

HARMONISING LIGHT & SOUND

NATA TEST REPORT

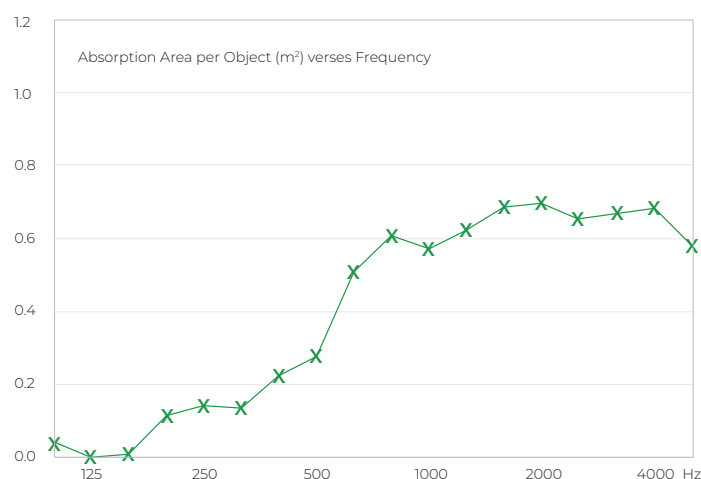
To achieve acoustic comfort in a room, the goal is to lower the reverberation time and noise level. Each Arin pendant is capable of absorbing 45% of the soundwaves that it intercepts reducing the reverberant noise in a space.

Measurement type; Sound Absorption AS ISO 354 – 2006 – Acoustics – Measurement of sound absorption in a reverberation room.

Test Specimen Eagle Lighting Arin Pendant 1200 x 273mm, 24mm baffle

Data also available upon request for Arin Pendant 1300 x 373mm 24mm baffle

MEASUREMENT DETAILS & RESULTS			
FREQ	ABSORPTION AREA PER LUMINAIRE ²	REVERBERATION TIMES, T ₆₀ (SEC)	
Hz	(m ² SABIN)	EMPTY ROOM	WITH SPECIMEN
100	0.04	5.47	5.37
125	0.00	6.11	6.12
160	0.01	6.41	6.40
200	0.12	5.89	5.56
250	0.14	4.83	4.56
315	0.14	5.93	5.54
400	0.22	6.01	5.36
500	0.28	5.61	4.93
630	0.51	5.35	4.30
800	0.61	5.11	3.99
1000	0.58	4.88	3.90
1250	0.62	4.44	3.56
1600	0.69	3.98	3.20
2000	0.70	3.61	2.95
2500	0.66	3.23	2.72
3150	0.67	2.88	2.47
4000	0.69	2.38	2.10
5000	0.58	1.96	1.80



	MEASUREMENT CONDITIONS	
	Empty Room	with Test Specimen
Date of measurement	10 Jun 2021	10 Jun 2021
Temperature & Humidity	19°C, 54% R.H	17°C, 59% R.H
Atmospheric pressure	997 mBar	997 mBar

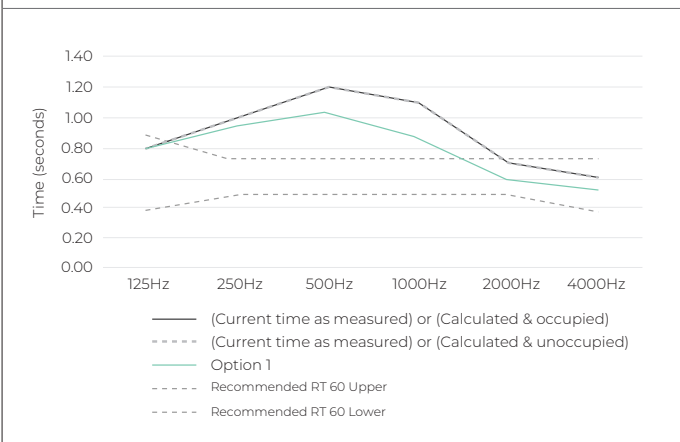
The required 12 spatially independent decay curves came from the ensemble averaging 10 successive decays with each of 3 different source loudspeaker positions, all sampled by 4 fixed microphones, using linear averaging.

HARMONISING LIGHT & SOUND

Cube™

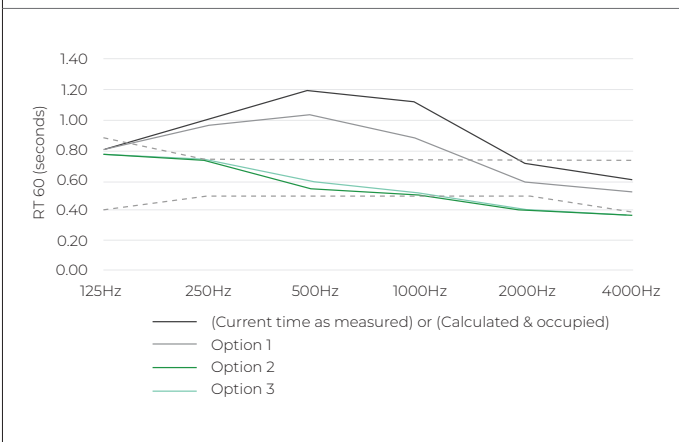
PROJECT SIMULATION STH MELBOURNE PRIMARY SCHOOL

The RT 60 time without the acoustic lights is taken as 1.1 seconds ((TMF) average time at 250hz, 500hz and 1khz.) By adding the units (28) the new time is calculated as being RT60 0.95 seconds We might say we have 15% reduction in the RT levels.



RT 60 (TIME AT FREQUENCY)

Black untreated space
Grey treated with only your lighting units (x28)
Light Green 60m2 QSP25mm + lighting Units (x 28)
Dark Green 85 m2 QSP 25mm



ACOUSTIC PERFORMANCE 1200X273MM

Cube™ is specifically designed to reduce and control reverberated and (echo) noise in building interiors.

Minimum Noise Reduction Coefficient 0.45

Sound Absorption Coefficients according to ISO 354.

University of Auckland Testing Service Cube 12mm - Test No. To71-23

Cube 24mm - Test No. T1961-1 and T1326-5

Below is the average absorption per unit and the also the rounded data for the ARIN lighting unit.

Each unit provides the equivalent of 0.45m² of absorption.

Practical Sound Absorption Coefficients						
125	250	500	1000	2000	4000	
Metric Sabins per Unit						Average (per m ² 250hz-2khz)
0.00	0.15	0.35	0.60	0.70	0.65	0.45

Reported values represent the estimated practical sound absorption coefficients and metric sabins calculated from configurations tested in accordance to ISO 354. The graph presents third octave sound absorption coefficients. The NRC rating is determined as the arithmetic average of the absorption coefficients measured by one-third octave bands centred on 250 Hz, 500 Hz, 1000 Hz and 2000 Hz, rounded to the nearest 0.05. Where the NRC is > 1 it is rounded to 1.00. (Sabins per meter² of practical coverage are calculated at one-third octave bands centred on 250 Hz, 500 Hz, 1000 Hz and 2000 Hz, rounded to the nearest 0.05. The values and ratings in this report are estimates and not to be considered as a guarantee of performance.

SILENCIO: ARIN

HARMONISING LIGHT & SOUND

AVAILABLE COLOUR RANGE

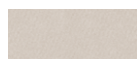
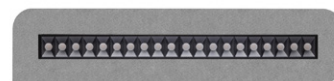
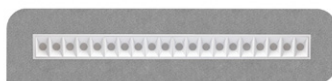
 FLATIRON*	 FALLING WATER	 CHERKIN	 BEEHIVE
 SAVOYE*	 PINNACLE	 CAVALIER	 SENADO
 OPERA*	 MURALLA	 SARGAZO	 PARTHENON
 PETRONAS	 BOSCO	 ROSADA	 ZENITH
 EMPIRE	 ACROS	 IRON BANK	 PAVILION
 HERALD	 TREE HOUSE		

* Standard colours.

N.B. MOQ apply to all non-standard colours. Colour choices will continuously be updated based on trends, latest information will be available on our website



FLATIRON



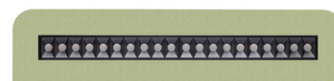
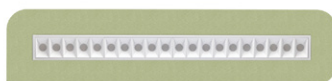
OPERA



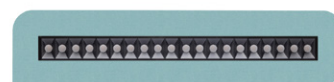
SAVOYE



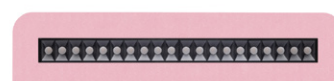
ACROS



FALLING WATER

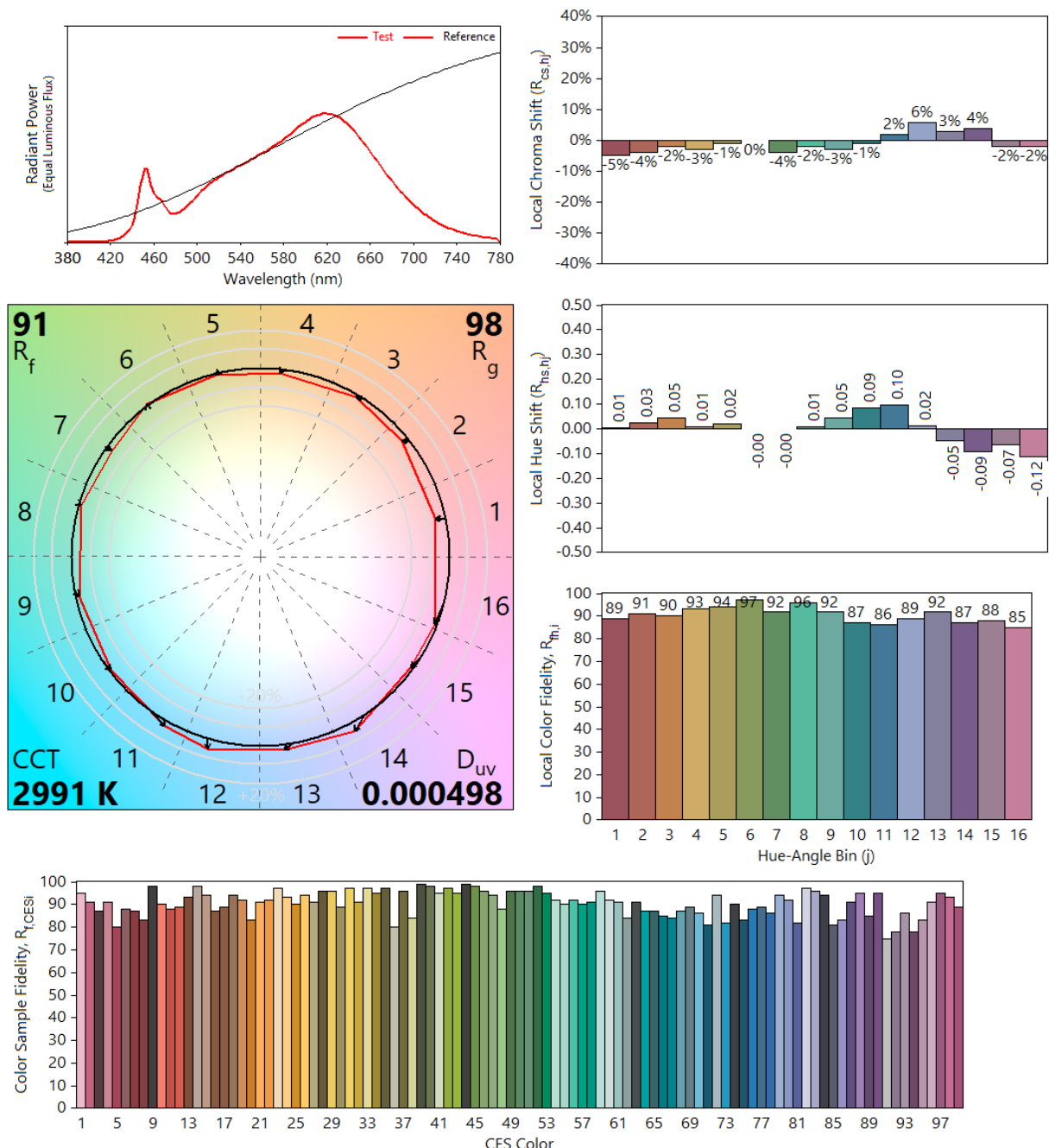


ROSADA



HARMONISING LIGHT & SOUND

TM-30 COLOUR RENDITION REPORT (930)



Notes: ARIN 930 DIR/IND Variants

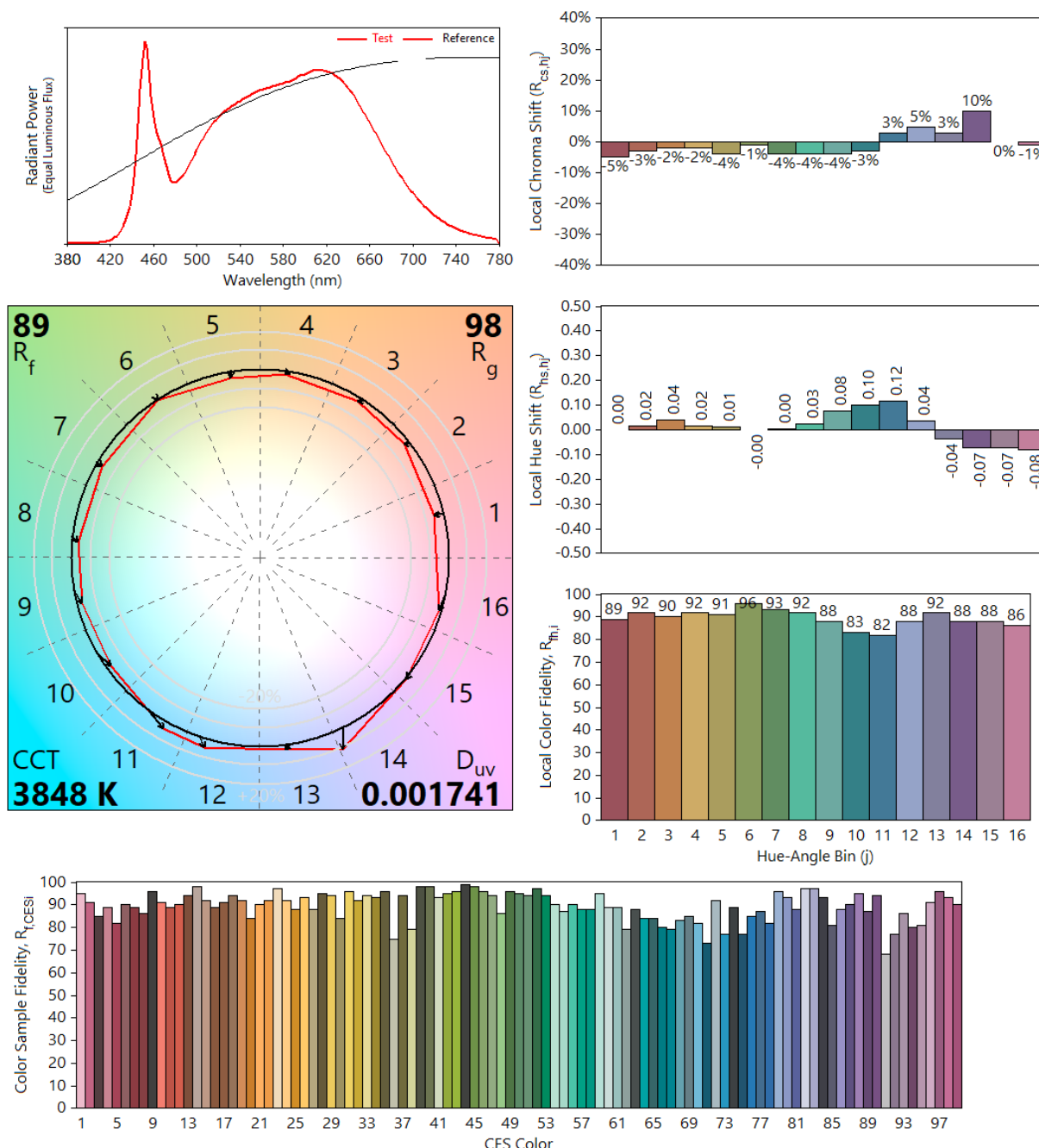
x 0.438277
y 0.405787
u' 0.250699
v' 0.522256

**CIE 13.3-1995
(CRI)
 R_a 92
 R_g 55**

Colors are for visual orientation purposes only.

HARMONISING LIGHT & SOUND

TM-30 COLOUR RENDITION REPORT (940)



Notes: ARIN 940 DIR/IND Variants

x 0.388784
y 0.385586
u' 0.227045
v' 0.506649

CIE 13.3-1995
(CRI)
 R_a 92
 R_g 60

Colors are for visual orientation purposes only.