



Octagon centre

Octagon Centre Technical Information

March 2022 v1.2

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Venue lighting information

Lighting desk:

Avolites Arena

Dimmers:

Zero88 Spice Pro Rack - 48x 2.3kW 10a circuits

DMX routing:

Main auditorium stage level: 9 in + 8 out

Main auditorium ceiling: 16 out

Centre Truss: 8 out via Artnet

DMX Patch bay:

Chauvet NET-X II 8 way Art-Net



Lighting - Fixtures & Networking

Generic

24x Selecon Rama 1k Fresnel

8x Iris 1 Flood

4x UV Cannon

Intelligent

6x Chauvet Rogue R2 Spot

4x Chauvet Rogue R2X Spot

14x Chauvet Rogue R3 Spot

12x Chauvet Rogue R3 Wash

8x Prolights Diamond 19

16x Chauvet COLORado Tri-Tour

16x Chauvet COLORado SOLO 1

Lighting Accessories

1x Avolites Truss buffer

2x Chauvet Net-X II

1x Avolites DMX Buffer

2x Doughty Shadow Stands



Sound - PA & Monitors

Main PA:

4x L'Acoustics ARCS wide (2 per side)

4x L'Acoustics ARCS focus (2 per side)

8x L'Acoustics SB18 subs

2x L'Acoustics KS28 subs

Delays/fills:

7x L'Acoustics 12XT (flown delays including 1 per bleacher unit)

4x L'Acoustics X8 (front Fills)

4x L'Acoustics ARCS wide/focus (2 per side out fills)

Monitoring:

6x L'Acoustics X12

Amps:

6x L'Acoustics LA4X

1x L'Acoustics LA8

1x L'Acoustics LA12X

Mixing:

DiGiCo S31

Processing:

QSC Q-sys core 110f (for flown delays)

Hearing accessibility:

Sennhieser Infra-red loop system

6x Neck worn induction loop receivers 2x In-ear receivers



Additional Sound Equipment

Other Mixing desks:

Behringer X32

Other Speakers:

4x Nexo ID24

2x Nexo IDS110 subs

Other Amps:

1x Nexo NXAMP4x1

Microphones:

8x Shure SM58

8x Shure SM57

2x AKG D112

1x Shure Beta 91A

2x Shure Beta 58A

2x Neumann KM184

4x DPA 4099

4x DPA 4088

4x AKG C1000

2x AKG C414

3x AKG GN30

4x Sennheiser Speechline handheld

4x Sennheiser Speechline belt packs

2x Sennheiser Speechline Goosenecks

DI Boxes:

5x Radial JDI Passive

2x Radial J48 Stereo Active

2x Radial Dinet Dan-RX

2x Radial Dinet Dan-TX

4x Radial Catapult RX4M

4x Radial Catapult TX4M

1x Radial Catapult RX4L

1x Radial Catapult TX4L



Video

Installed display equipment:

1x Sharp 1080p Video Wall (Fixed to wall in the Bar Bay)

7x 4:3 Projector screens (Fixed to wall on all other bays)

Projectors:

5x Hitachi CP-X5500

1x Hitachi CP-WU840

1x Hitachi CP-X5022W

Distribution:

7x Extron HDMI over cat5 receivers

1x Extron HDMI over cat5 8 way transmitter (Installed)

6x Kramer Picotools HDMI over cat5 transmit and receive pair

1x Kramer Picotools VGA over cat5 transmit and receive pair

1x Kramer 8x8 HDMI Matrix



Power

Mains input loor level:

1x 125amp 3phase supply with 30mA RCD

3x 32amp 3phase supply with 30mA RCD

4x 16amp single phase

Installed power distribution:

1x 125amp 3phase supply distributed by Avolites power cube (in control room). Can be routed to any socket on the trusses as needed.

Temporary power distribution:

1x 125a to 6x32amp and 18x16 amp distro box

3x 32amp to 4x16amp distro box

16x 16amp to 12x13amp distro box



Rigging & Staging

Installed trusses:

5x 12m Prolyte H30v trusses, hung in bar bay, bay 1, bay 3 and two in bay 5

1x 10m Prolyte H52v truss, hung in Bay 5 down Stage

1x Octagonal Prolyte H52v truss, hung in the centre of the auditorium

(see plan)

Stageing

Width 32' x Depth 12' x Height 3', 4' or 18"

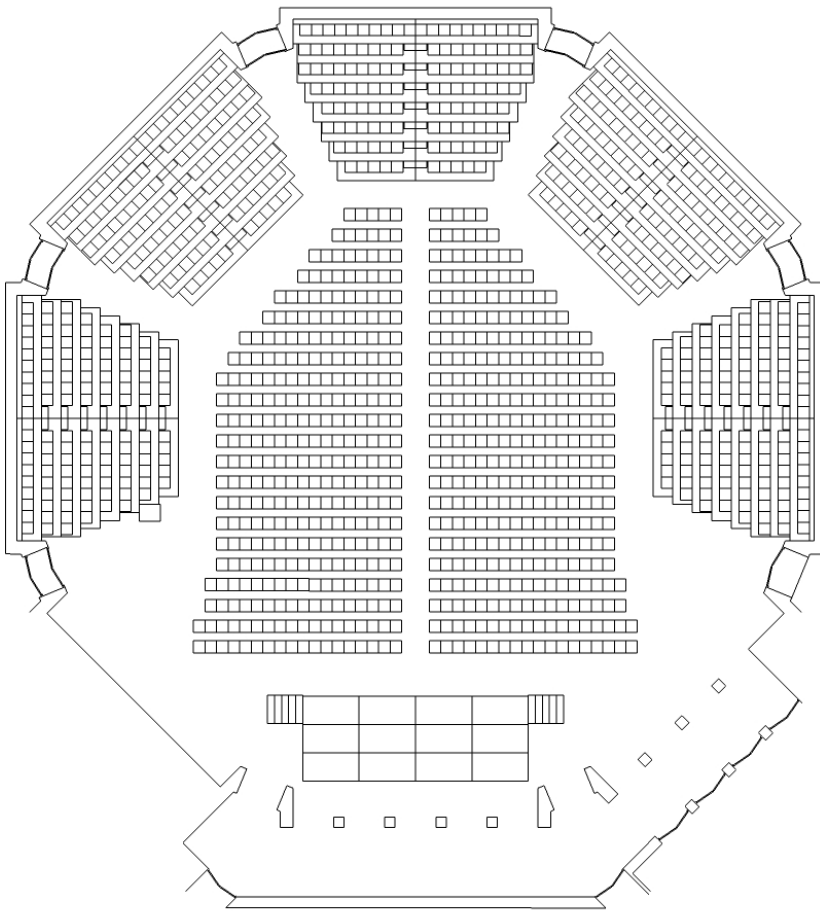
Width 24' x Depth 12' x Height 3', 4' or 18"

Width 32' x Depth 16' x Height 3' or 4'

Width 32' x Depth 24' x Height 3' or 4'

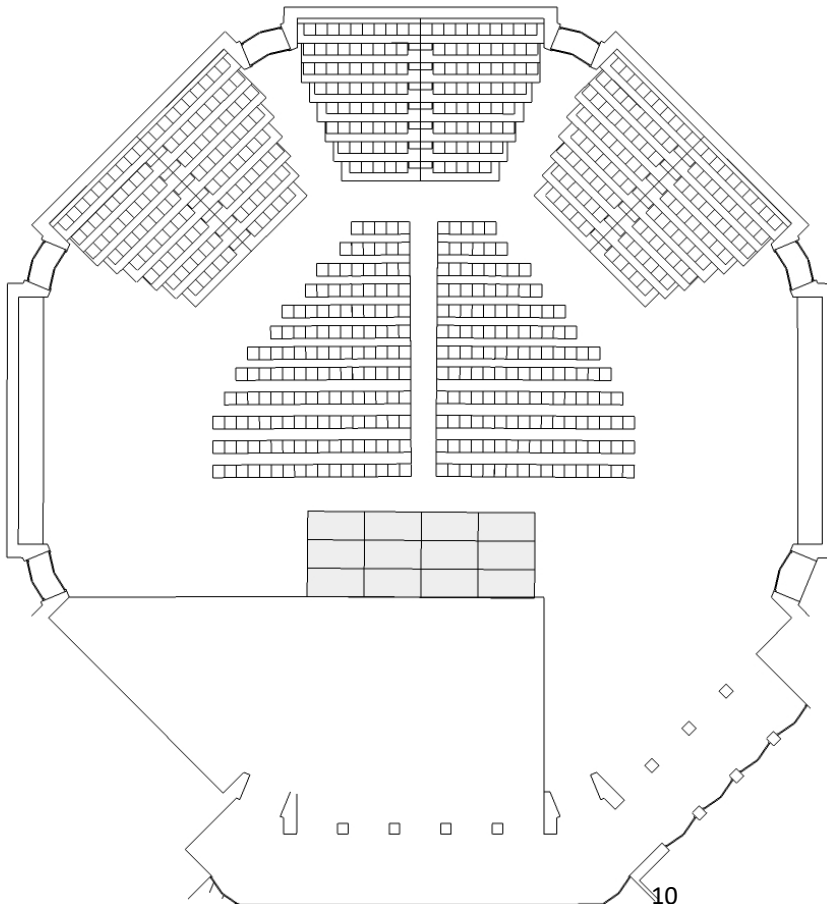


Hall configurations



Full Hall seated

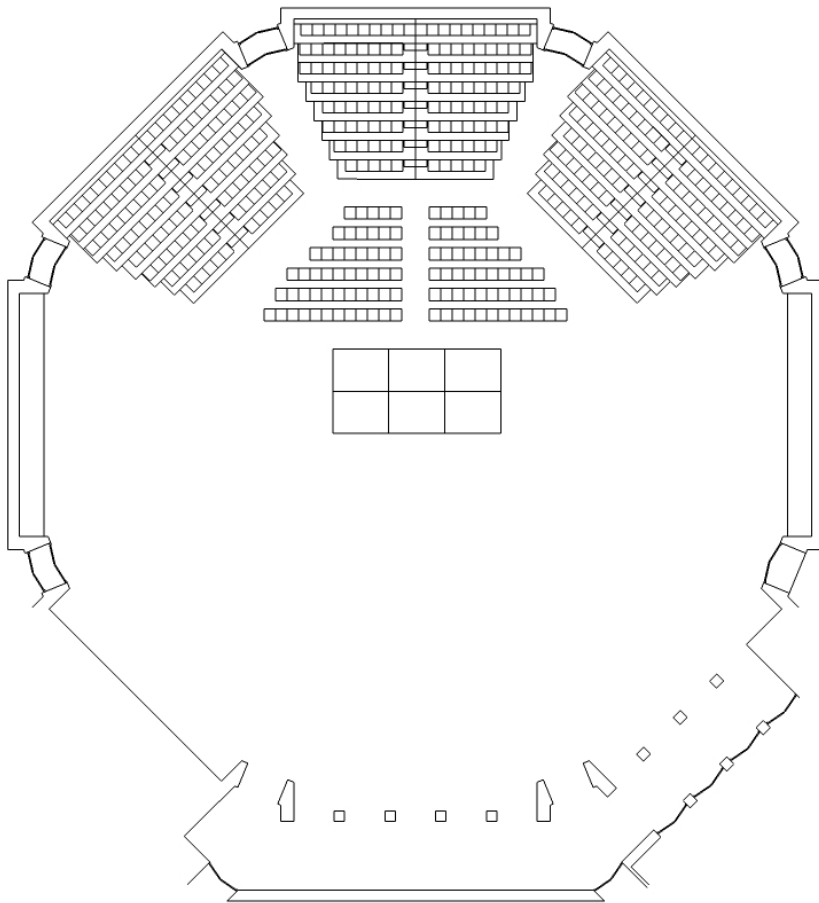
Capacity: 1230



3/4 Hall seated

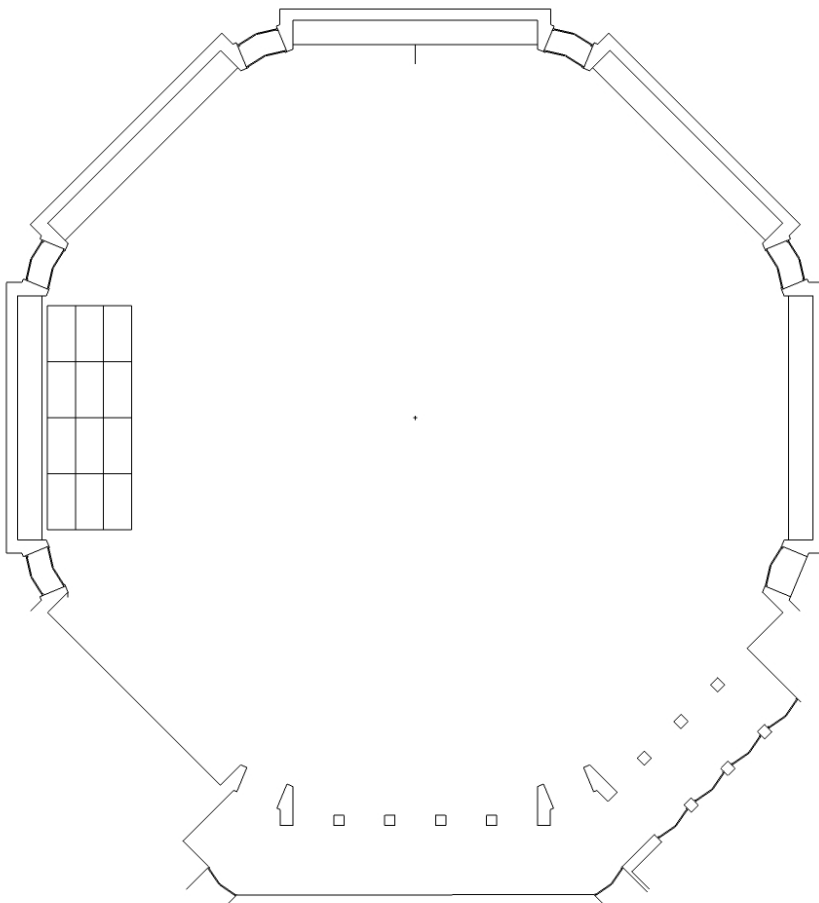
Capacity: 660





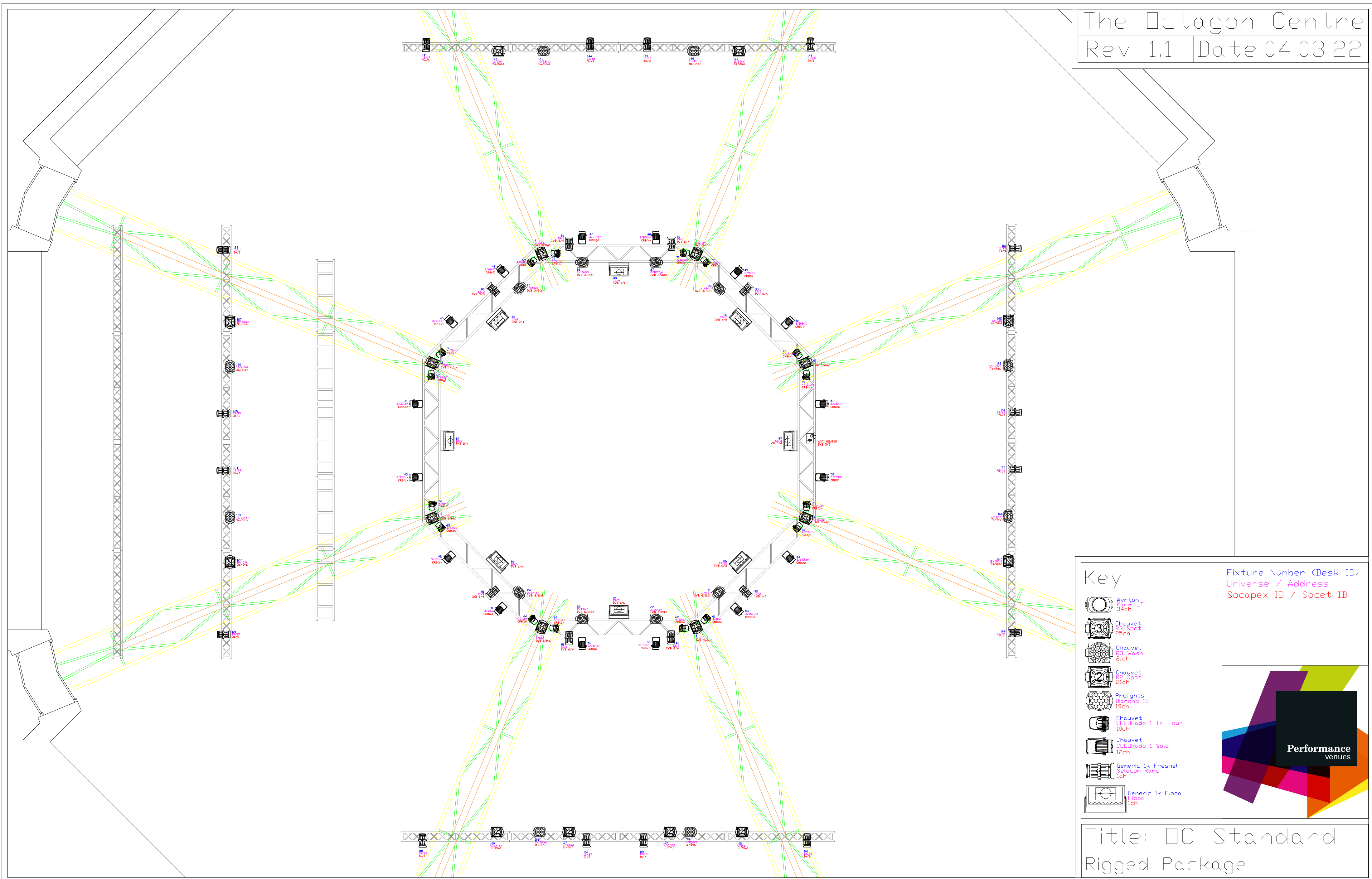
1/2 hall seated

Capacity: 470



Full Hall standing

Capacity: 1500



Key

- Ayrton 34ch
- Chauvet R3 Spot 25ch
- Chauvet R3 Wash 21ch
- Chauvet R3 Spot 21ch
- Prolights Diamond 19 19ch
- Chauvet COULRado 1-Tri Tour 10ch
- Chauvet COULRado 1 Solo 12ch
- Generic 1k Fresnel Selecon Rama 1ch
- Generic 1k Flood 1ch

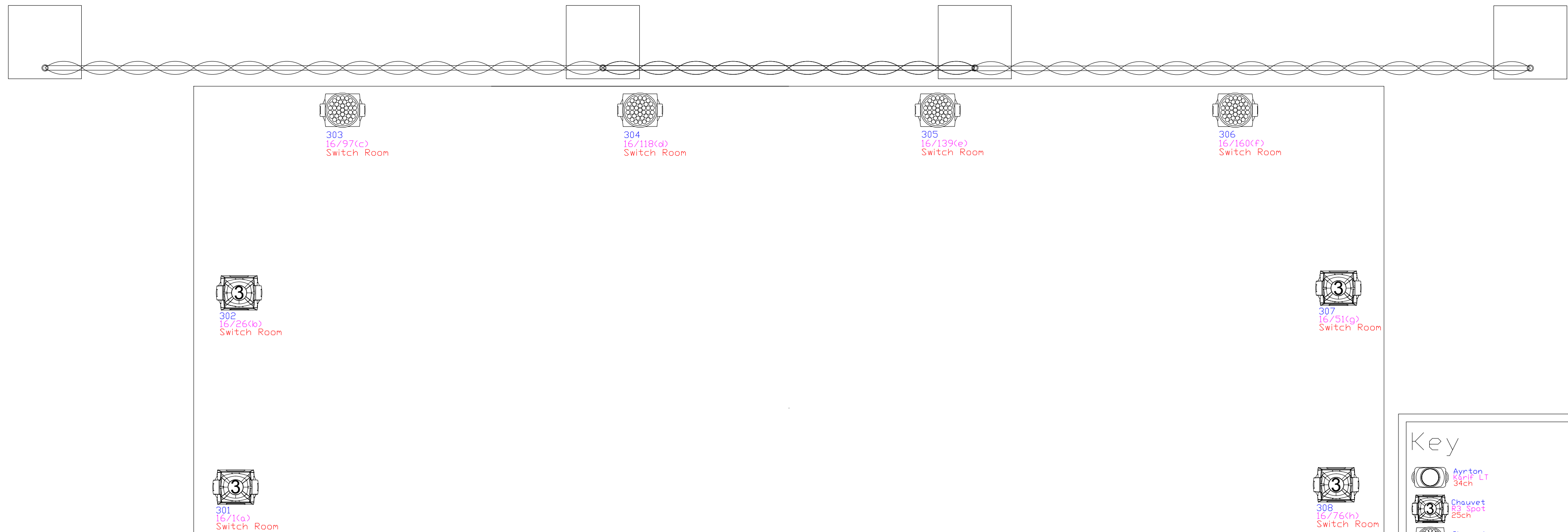
Fixture Number (Desk ID)
Universe / Address
Socapex ID / Socet ID



Title: OC Standard
Rigged Package

The Octagon Centre

Rev 1.0 | Date 01.03.22



Key



Fixture Number (Desk ID)
Universe / Address
Socapex ID / Socet ID



Title: OC Standard
Basic Floor Package



Key

Ayrton
Karif LT
34ch

Chauvet
R3 Spot
25ch

Chauvet
R3 Wash
21ch

Chauvet
R2 Spot
21ch

Prolights
Diamond 19
19ch

Chauvet
CDLRado 1-Tri Tour
10ch

Chauvet
CDLRado 1 Solo
12ch

Generic 1k Fresnel
Selecon Rama
1ch

Generic 1k Flood
1ch

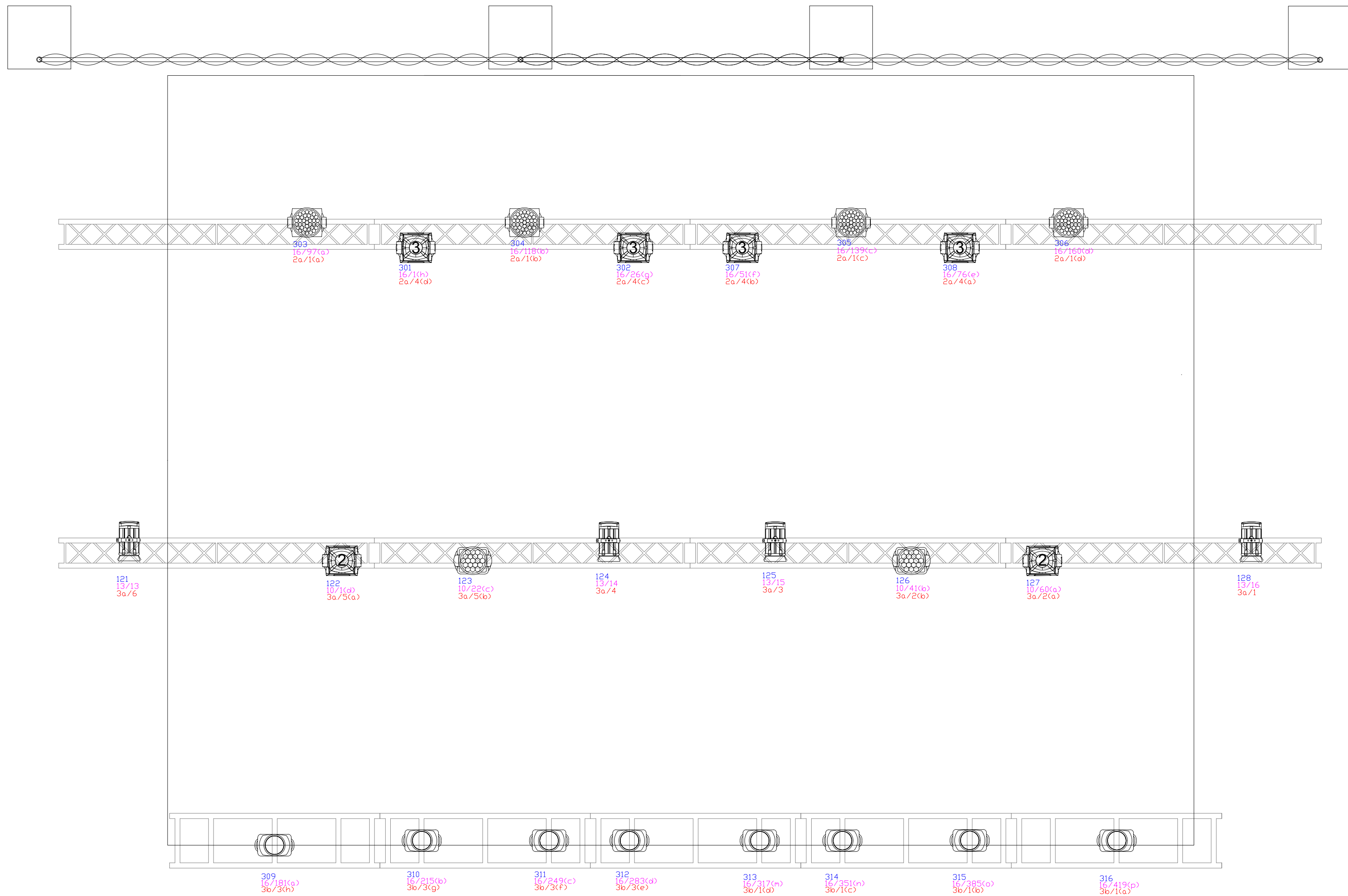
Fixture Number (Desk ID)

Universe / Address

Socapex ID / Socet ID

The Octagon Centre

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Title: OC Standard
Gig Bay House Rig

Fixture	Fixture	Location	Fixture	Mode	Universe	Address	Soca/Socket/Sou	Power Draw Per Line (watt)
1	Intelligent	Octagon Truss	Chauvet R3 Spot	25	1	1	IWB 1/1	1200
2	Intelligent	Octagon Truss	Chauvet R3 Spot	25	1	26	IWB 1/1	1200
3	Intelligent	Octagon Truss	Chauvet R3 Spot	25	1	51	IWB 1/1	1200
4	Intelligent	Octagon Truss	Chauvet R3 Spot	25	1	76	IWB 1/1	1200
5	Intelligent	Octagon Truss	Chauvet R3 Spot	25	1	101	IWB 5/6	1200
6	Intelligent	Octagon Truss	Chauvet R3 Spot	25	1	126	IWB 5/6	1200
7	Intelligent	Octagon Truss	Chauvet R3 Spot	25	1	151	IWB 5/6	1200
8	Intelligent	Octagon Truss	Chauvet R3 Spot	25	1	176	IWB 5/6	1200
21	Intelligent	Octagon Truss	Chauvet R3 Wash	21	2	1	IWB 6/2	2816
22	Intelligent	Octagon Truss	Chauvet R3 Wash	21	2	22	IWB 6/2	2816
23	Intelligent	Octagon Truss	Chauvet R3 Wash	21	2	43	IWB 6/2	2816
24	Intelligent	Octagon Truss	Chauvet R3 Wash	21	2	64	IWB 6/2	2816
25	Intelligent	Octagon Truss	Chauvet R3 Wash	21	2	85	IWB 3/3	2816
26	Intelligent	Octagon Truss	Chauvet R3 Wash	21	2	106	IWB 3/3	2816
27	Intelligent	Octagon Truss	Chauvet R3 Wash	21	2	127	IWB 3/3	2816
28	Intelligent	Octagon Truss	Chauvet R3 Wash	21	2	148	IWB 3/3	2816
41	Intelligent	Octagon Truss	Chauvet Colorado 1 Solo	12	3	1	CR Leaver 8a	1040
42	Intelligent	Octagon Truss	Chauvet Colorado 1 Solo	12	3	13	CR Leaver 8a	1040
43	Intelligent	Octagon Truss	Chauvet Colorado 1 Solo	12	3	25	CR Leaver 8a	1040
44	Intelligent	Octagon Truss	Chauvet Colorado 1 Solo	12	3	37	CR Leaver 8a	1040
45	Intelligent	Octagon Truss	Chauvet Colorado 1 Solo	12	3	49	CR Leaver 8a	1040
46	Intelligent	Octagon Truss	Chauvet Colorado 1 Solo	12	3	61	CR Leaver 8a	1040
47	Intelligent	Octagon Truss	Chauvet Colorado 1 Solo	12	3	73	CR Leaver 8a	1040
48	Intelligent	Octagon Truss	Chauvet Colorado 1 Solo	12	3	85	CR Leaver 8a	1040
49	Intelligent	Octagon Truss	Chauvet Colorado 1 Solo	12	3	97	CR Leaver 8a	1040
50	Intelligent	Octagon Truss	Chauvet Colorado 1 Solo	12	3	109	CR Leaver 8a	1040
51	Intelligent	Octagon Truss	Chauvet Colorado 1 Solo	12	3	121	CR Leaver 8a	1040
52	Intelligent	Octagon Truss	Chauvet Colorado 1 Solo	12	3	133	CR Leaver 8a	1040
53	Intelligent	Octagon Truss	Chauvet Colorado 1 Solo	12	3	145	CR Leaver 8a	1040
54	Intelligent	Octagon Truss	Chauvet Colorado 1 Solo	12	3	157	CR Leaver 8a	1040
55	Intelligent	Octagon Truss	Chauvet Colorado 1 Solo	12	3	169	CR Leaver 8a	1040
56	Intelligent	Octagon Truss	Chauvet Colorado 1 Solo	12	3	181	CR Leaver 8a	1040
61	Intelligent	Octagon Truss	Chauvet Colorado TriTour	10	4	1	CR Leaver 8b	1488
62	Intelligent	Octagon Truss	Chauvet Colorado TriTour	10	4	11	CR Leaver 8b	1488
63	Intelligent	Octagon Truss	Chauvet Colorado TriTour	10	4	21	CR Leaver 8b	1488
64	Intelligent	Octagon Truss	Chauvet Colorado TriTour	10	4	31	CR Leaver 8b	1488
65	Intelligent	Octagon Truss	Chauvet Colorado TriTour	10	4	41	CR Leaver 8b	1488
66	Intelligent	Octagon Truss	Chauvet Colorado TriTour	10	4	51	CR Leaver 8b	1488
67	Intelligent	Octagon Truss	Chauvet Colorado TriTour	10	4	61	CR Leaver 8b	1488
68	Intelligent	Octagon Truss	Chauvet Colorado TriTour	10	4	71	CR Leaver 8b	1488
69	Intelligent	Octagon Truss	Chauvet Colorado TriTour	10	4	81	CR Leaver 8b	1488
70	Intelligent	Octagon Truss	Chauvet Colorado TriTour	10	4	91	CR Leaver 8b	1488
71	Intelligent	Octagon Truss	Chauvet Colorado TriTour	10	4	101	CR Leaver 8b	1488
72	Intelligent	Octagon Truss	Chauvet Colorado TriTour	10	4	111	CR Leaver 8b	1488
73	Intelligent	Octagon Truss	Chauvet Colorado TriTour	10	4	121	CR Leaver 8b	1488
74	Intelligent	Octagon Truss	Chauvet Colorado TriTour	10	4	131	CR Leaver 8b	1488
75	Intelligent	Octagon Truss	Chauvet Colorado TriTour	10	4	141	CR Leaver 8b	1488
76	Intelligent	Octagon Truss	Chauvet Colorado TriTour	10	4	151	CR Leaver 8b	1488
81	Dimmer	Octagon Truss	Fresnel Pair (Bar Side)	1	13	1	IWB 6/4	2000
82	Dimmer	Octagon Truss	Fresnel Pair	1	13	2	IWB 1/5	2000
83	Dimmer	Octagon Truss	Fresnel Pair	1	13	3	IWB 3/5	2000
84	Dimmer	Octagon Truss	Fresnel Pair	1	13	4	IWB 3/2	2000
85	Dimmer	Octagon Truss	Iris Flood (Bar Side)	1	13	5	IWB 1/6	1000
86	Dimmer	Octagon Truss	Iris Flood Switch Bay	1	13	6	IWB 1/4	1000
87	Dimmer	Octagon Truss	Iris Flood Bay 5	1	13	7	IWB 2/4	1000
88	Dimmer	Octagon Truss	Iris Flood Bay 4	1	13	8	IWB3/4	1000
89	Dimmer	Octagon Truss	Iris Flood Bay 3	1	13	9	IWB 3/1	1000
90	Dimmer	Octagon Truss	Iris Flood Bay 2	1	13	10	IWB 5/5	1000
91	Dimmer	Octagon Truss	Iris Flood Bay 1	1	13	11	IWB 5/4	1000
92	Dimmer	Octagon Truss	Iris Flood Entrance	1	13	12	IWB 6/3	1000
101	Dimmer	Bar Bay Truss	Fresnel 1	1	13	25	1a/6	1000
102	Intelligent	Bar Bay Truss	Chauvet R2 Spot	21	9	1	1a/2	832
103	Intelligent	Bar Bay Truss	Prolights Diamond 19	19	9	85	1a/5	832
104	Intelligent	Bar Bay Truss	Chauvet R2 Spot	21	9	22	1a/2	832
105	Dimmer	Bar Bay Truss	Fresnel 2	1	13	26	1a/4	1000
106	Dimmer	Bar Bay Truss	Fresnel 3	1	13	27	1a/3	1000
107	Intelligent	Bar Bay Truss	Chauvet R3 Spot	21	9	43	1a/2	832
108	Intelligent	Bar Bay Truss	Prolights Diamond 19	19	9	104	1a/5	832
109	Intelligent	Bar Bay Truss	Chauvet R2 Spot	21	9	64	1a/2	832
110	Dimmer	Bar Bay Truss	Fresnel 1	1	13	28	1a/1	1000
121	Dimmer	Bay 5 Truss	Fresnel 1	1	13	13	3a/6	1000
122	Intelligent	Bay 5 Truss	Chauvet R2X Spot	21	10	1	3a/5	531
123	Intelligent	Bay 5 Truss	Prolights Diamond 19	19	10	22	3a/5	531
124	Dimmer	Bay 5 Truss	Fresnel 2	1	13	14	3a/4	1000
125	Dimmer	Bay 5 Truss	Fresnel 3	1	13	15	3a/3	1000
126	Intelligent	Bay 5 Truss	Prolights Diamond 19	19	10	41	3a/2	531
127	Intelligent	Bay 5 Truss	Chauvet R2X Spot	21	10	60	3a/2	531
128	Dimmer	Bay 5 Truss	Fresnel 4	1	13	16	3a/1	1000
141	Dimmer	Bay 3 Truss	Fresnel 1	1	13	17	5a/6	1000
142	Intelligent	Bay 3 Truss	Chauvet R2 Spot	21	11	1	5a/5	531
143	Intelligent	Bay 3 Truss	Prolights Diamond 19	19	11	22	5a/5	531
144	Dimmer	Bay 3 Truss	Fresnel 2	1	13	18	5a/4	1000
145	Dimmer	Bay 3 Truss	Fresnel 3	1	13	19	5a/3	1000
146	Intelligent	Bay 3 Truss	Prolights Diamond 19	19	11	41	5a/2	531
147	Intelligent	Bay 3 Truss	Chauvet R2 Spot	21	11	60	5a/2	531
148	Dimmer	Bay 3 Truss	Fresnel 4	1	13	20	5a/1	1000
161	Dimmer	Bay 1 Truss	Fresnel 1	1	13	21	7a/6	1000
162	Intelligent	Bay 1 Truss	Chauvet R2X Spot	21	12	1	7a/5	531
163	Intelligent	Bay 1 Truss	Prolights Diamond 19	19	12	22	7a/5	531
164	Dimmer	Bay 1 Truss	Fresnel 2	1	13	22	7a/4	1000
165	Dimmer	Bay 1 Truss	Fresnel 3	1	13	23	7a/3	1000
166	Intelligent	Bay 1 Truss	Prolights Diamond 19	19	12	41	7a/2	531
167	Intelligent	Bay 1 Truss	Chauvet R2X Spot	21	12	60	7a/2	531
168	Dimmer	Bay 1 Truss	Fresnel 4	1	13	24	7a/1	1000
181	Dimmer	Fresnel House Bay	Fresnel	1	13	43		1000
182	Dimmer	Fresnel House Bay 1	Fresnel	1	13	44		1000
183	Dimmer	Fresnel House Bay 2	Fresnel	1	13	45		1000
184	Dimmer	Fresnel House Bay 3	Fresnel	1	13	46		1000
185	Dimmer	Fresnel House Bay 4	Fresnel	1	13	47		1000
186	Dimmer	Fresnel House Bay 5	Fresnel	1	13	48		1000
201	Relay	FOH Inner 1 (Bar)	FOH Foresent	1	13	496		
202	Relay	FOH Inner 2	FOH Foresent	1	13	497		
203	Relay	FOH Inner 3	FOH Foresent	1	13	498		
204	Relay	FOH Inner 4	FOH Foresent	1	13	499		
205	Relay	FOH Inner 5	FOH Foresent	1	13	500		
206	Relay	FOH Inner 6	FOH Foresent	1	13	501		
207	Relay	FOH Inner 7	FOH Foresent	1	13	502		
208	Relay	FOH Inner 8	FOH Foresent	1	13	503		
209	Relay	FOH Outer 1 (Bar)	FOH Foresent	1	13	504		
210	Relay	FOH Outer 2	FOH Foresent	1	13	505		
211	Relay	FOH Outer 3	FOH Foresent	1	13	506		
212	Relay	FOH Outer 4	FOH Foresent	1	13	507		
213	Relay	FOH Outer 5	FOH Foresent	1	13	508		
214	Relay	FOH Outer 6	FOH Foresent	1	13	509		
215	Relay	FOH Outer 7	FOH Foresent	1	13	510		
216	Relay	FOH Outer 8	FOH Foresent	1	13	511		
301	Intelligent	Basic/Full Floor Package	Chauvet R3 Spot	25	16	1	Switch Room 1	1200
302	Intelligent	Basic/Full Floor Package	Chauvet R3 Spot	25	16	26	Switch Room 1	1200
303	Intelligent	Basic/Full Floor Package	Chauvet R3 Spot	25	16	51	Switch Room 1	1200
304	Intelligent	Basic/Full Floor Package	Chauvet R3 Spot	25	16	76	Switch Room 1	1200
305	Intelligent	Basic/Full Floor Package	Chauvet R3 Wash	21	16	97	Switch Room 2	2816
306	Intelligent	Basic/Full Floor Package	Chauvet R3 Wash	21	16	118	Switch Room 2	2816
307	Intelligent	Basic/Full Floor Package	Chauvet R3 Wash	21	16	139	Switch Room 2	2816
308	Intelligent	Basic/Full Floor Package	Chauvet R3 Wash	21	16	160	Switch Room 2	2816
309	Intelligent	Full Floor Package	Aryton Karif LT	34	16	181	Switch Room 3	2200
310	Intelligent	Full Floor Package	Aryton Karif LT	34	16	215	Switch Room 3	2200
311	Intelligent	Full Floor Package	Aryton Karif LT	34	16	249	Switch Room 3	2200
312	Intelligent	Full Floor Package	Aryton Karif LT	34	16	283	Switch Room 3	2200
313	Intelligent	Full Floor Package	Aryton Karif LT	34	16	317	Switch Room 4	2200
314	Intelligent	Full Floor Package	Aryton Karif LT	34	16	351	Switch Room 4	2200
315	Intelligent	Full Floor Package	Aryton Karif LT	34	16	385	Switch Room 4	2200
316	Intelligent	Full Floor Package	Aryton Karif LT	34	16	419	Switch Room 4	2200
	Wifi Router	Local - No Internet	Tech Opps - 192.168.1.1				IWB 5/3	

Links

Performance Venues home page:

<http://performancevenues.group.shef.ac.uk/>

Contact information

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