Revolutionize your Lighting Design through a greater understanding of Angles, Color, and Paperwork!

KATY HALLEE

DoghouseProductionsATX@gmail.com



VS.

The Qualities of light

- Composition
- Visibility
- Modeling
- ► Focus
- Information
- Mood

Composition – The stage picture revealed by the lighting

Visibility - The responsibility of the designer to provide enough light to reveal the image on stage to the audience.

Modeling - The use of high light and shadow, and direction to reveal the three dimensional form of the performer.

► **Focus** – The responsibility of the designer to tell the audience where to look.

► Information - The use of light to establish the time of day, the season, and the location of the play's action.

Mood - The reflection of the ever changing emotional content of the play.

The 6 Qualities of Light

- Intensity
- Color
- Angle or Direction
- Coverage / Distribution
- Texture
- Movement

Intensity - The amount of light reflected by the performer and the background.

Color - The color of the light reflected by the performer and the background.

► Angle or Direction - The direction (or angle) of the light determines how the people and objects on the stage are illuminated and viewed.

Coverage / Distribution - The distribution of light determines which part (or parts) of the stage will be lit.

► Texture - Texture is the quality of the light-- its diffusion or clarity. Does it have a soft edge or is it hard edged? Is the field of the light smooth, diffuse, or is it heavily textured?

Movement - Movement is any change or appearance of change in the intensity, color, direction, distribution, or texture of the light. Such a change is a light cue.

Visibility is determined by the intensity, color, and direction of the light.

Focus is determined by the intensity, color and distribution of the light.

Modeling is determined by the direction and color of the light.

Information is presented by the intensity, color, direction.

Mood, or tone or style, is determined by the intensity, color, direction, and distribution.

Composition is the end product of the lighting design and is derived from all the other functions.

References

- J. Michael Gillette. *Theatrical Design and Production*, 4th edition. Mountain View, CA: Mayfield Publishing Company. 1999. Chapter 12: Lighting Design
- http://www3.northern.edu/wild/litedes/ld1.htm

- Front
 - Straight front (single front light)
 - 45 deg Front light (2 front lights)
 - Steep Front

- Side
 - High side (Pipe end or Distributed)
 - Head High (7' to 8' from stage)
 - Mids (3' to 4' from stage)
 - Shins (1' from stage)

- Box Boom position is a combination of Front and Side light.
 - ► It is quite useful to have lights in the BB that are the same color as your High side system, especially if you have a deep apron with no lighting position over it.

- Down or Top
- High Back
- ► Low Back
- Up light (using footlights or flashlight)

Paperwork!

MAGIC SHEETS, SOFTPATCH, LIGHT CUE SHEETS, LIGHT CUE CHANNEL LEVELS

Vectorworks Educational Version

AISD PAC UIL Magic Sheet 2018 161 162 163 164 165 20 39 SR Apron Front Spos N/C SL 13 34 15 705 26 29 10 30 702 703 24 Cat 1 199 SR SR Front Lev R54 SL SR SL Front Cool R360 SL SR Down Specials N/C SL 93 63 49 50 68 89 90 84 Down Werm R09 SL Down N/C Down Gool R365 R09 182 183 192 193 **R54** 191 101 171 172 173 174 SR SR Box Bm Fill R57 SL SR SL Box Bm FIE RO4 SL SR Beic Rall Front FE SL 4E **147** 148 114 110 134 135 145 111 112 131 132 狂 2E 141 142 108 109 128 SR SR HS Gebo Wash N/C 8L 129 4E 157 158 105 106 126 126 150 102 103 122 123 121 2E 151 162 163 SR High Side SR R321 SL 9R High Side St. R55 SR SL HS Gobo Wash N/C SL æ 258 259 260 261 262 263 264 3E 305 4E 208 267 268 278 279 290 1E 308 2E 251 252 253 254 255 256 257 SR LED Cyc Lights SL SR LED HS VLX Wash St LED Down Wash SL **Bold** = group # for row

MS Travelor ----

Bold & Italic = group # for system

Black Box Magic Sheet

	Front Light	\	R360
27	28	29	
24	25	26	
21	22	23	

V	Front Light		R54
37	38	39	
34	35	36	
31	32	33	

1	Front Ligi	ht 7	R54
7	8	9	
4	5	6	
1	2	3	

_	Front Light		R360
17	18	19	
14	15	16	
11	12	13	

2		Specials		N/C
	47	48	49	
	44	45	46	
	41	42	43	

	Top Wash		R68
57	58	59	
54	55	56	
51	52	53	

	Top Wash		R321
67	68	69	
64	65	66	
61	62	63	

ETC ELEMENT Soft Patch

Production	1	Black	Box	Reper	tory P	lot		•8	Boar	d Ope	erator						Date	Ma	rch 1,	2018
Channel Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Address Number	62	54	49	61	63	136	66	184	137		47	43	121	190	126	125	172	157	120	
I. D. &	A1/ DSR	A2/ DSC	A3/ DSL	MSR	A5/ MSC	A6/ MSL	A7/ USR	A8/ USC	A9/ USL		A1/ DSR	A2/ DSC	A3/ DSL	A4/ MSR	A5/ MSC	A6/ MSL	A7/ USR	A8/ USC	A9/ USL	
Notes			SR F	ront	R54	4 La	v Tin	it				S	L Fr	ont	R36	0 Blu	ue Ti	nt		
Channel Number	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Address Number	70	145	147	75	88	178	78	90	89		176	162	113	175	98	109	99	97	102	
I. D. &	A1/ DSR	A2/ DSC	A3/ DSL	A4/ MSR	A5/ MSC	A6/ MSL	A7/ USR	A8/ USC	A9/ USL		A1/ DSR	A2/ DSC	A3/ DSL	A4/ MSR	A5/ MSC	A6/ MSL	A7/ USR	A8/ USC	A9/ USL	
Notes		5	SR B	ack	R09	Am	b Tir	nt				SL	Bac	k R	55 C	old L	av 7	Γint		
Channel Number	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
Address Number	133	18	173	146	151	156	86	91	95		186	134	174	150	149	153	87	93	94	
I. D. &	A1/ DSR	A2/ DSC	A3/ DSL	A4/ MSR	A5/ MSC	A6/ MSL	USR	A8/ USC	A9/ USL		A1/ DSR	A2/ DSC	A3/ DSL	A4/ MSR	A5/ MSC	A6/ MSL	A7/ USR	A8/ USC	A9/ USL	
Notes	Do	wn S	Spec	ial P	ools	N/C	(S4	19d	eg)			Do	wn L	ights	N/C	(S4	1 360	deg)		
Channel Number	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
Address Number											301- 308	309- 316	317- 324	325- 332	333- 340				£1	
I. D.											SR	CSR	cs	CSL	SL					
& Notes											L	ED E	Back	Was	sh					
Channel Number	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
Address Number	3	6	9	12	4	7	10	15	5	8	11	16					192	73	114	48,53 122
I. D. &	Bm 1	Bm 2	Bm 3	Bm 4	Bm 1	Bm 2	Bm 3	Bm 4	Bm 1	Bm 2	Bm 3	Bm 4					Booth	SR	SL	Main
Notes		SR	Shin	1		SR	Mid			SR H	lead	S					Vest.	ŀ	Hous	e

ETC ELEMENT Soft Patch

Production									Boar	d Ope	erator	,					Date			
Channel Number Dimmer	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
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Dimmer																				
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Notes																				
Channel Number	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
Dimmer Number																				
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&																				
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Submaster Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
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&																				
Notes																				
Submaster Number	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Channel Number																				
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Notes																				

Scene	Page#	Location	Time of day	Where on stage	Characters	Action	Mood/Emotion /Description/ Atmospheres	Describing Words
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							1	
			2			12		
			- 10		0.0	3.		
			Example A		Example B			
		Scene	Act 1, sc 3	+	Act 2, sc 2			
		Location	Office		In the Park			
		Time of Day	afternoon		Sunset			
		Where on stage	DSL wing		CS in front of	MS traveler		
		Characters	Secretary			(use character	names)	
		Action	talking on phone		strolling throu		names)	
		Mood/Emotion	stressed/ anxiou		romantic/ flirt	A STATE OF THE PARTY OF T		
				15				
		Describing words	sterile, stark	-	magical, soft,	areamy		

				No. and the second second		
Cue#	Scene	GO	Location	Transition/ location onstage	Probable Approach	TIME
1	Preset	Before house opens				3s
4 5	house to					
17-1000-000-00	1/2					
	Blackout &	Color III (Park)				
3	house out	House Out				3s
2 - 111 7					High side cool shaft of light on Tex Wk./uplight fill-	-
	27111111111		textile	Cod starts talking way Off SR	Dim top with slight front fill light for Cod who is	
		Prelude	mill?	TW - onstage edge of cat	also on Cat, no spill on set	8s
6	Blackout	end of scene				1s
				DC -i	top light and straight front, flat, industrial, some	
		top of scene	1	DS pigs, moving	texture?	18s
10	Transition	getting dressed	1	ensemble working		2s
11	l:1	with buzzer	the work floor	abrupt shift into scene lights	top light and straight front, flat, industrial, some texture?	3s
11.5	1	with buzzer			Company of the Compan	6s
			the work	Total Special Section	down pool on Cod, back fill dirty lav / Cod is	
12	I:1	Taunting Cod	floor	Ensemble exitsDSL on apron	focus, others in shadow	7s
19	Transition	end of scene		desk revealed by walls	319	0s/2s
3			Baquin's		all lights form square, straight down key, one	
21	1:2	desk in place	office	DSC just up of PL, 10'x8'	from each side for effect, steep front for fill	2s
29	Transition	end of scene		desk and chairs off / pigline in	Hard, Bright straight down DS & MS	1.5s
			the work			
	l		floor - loin	Brandon & Roach DSR in front	Roach stands in front of Prosc - use SL	
31	1:3	top of scene	pulling		julietsisolated DSR, side light, slight front fill	2s
32		with buzzer				3s
					<u> </u>	
39	Transition	end of scene		pigline out, broom sweeping	bright SL HS whole staghe	0s

	A	В	С	D	E	F	G	Н	1	J.	K	L	M
1		Fade			Decription of lighting look	Probable		Mood/	Where on				191111111
	CUE #	Time	GO	Location	lighting look	Approach	day	Emotion	stage	Characters	Action	Scn	Pg#
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39			3										
40													
41													

School:	Sample_	Light Cue Channel Level Sheet	Theatre Director:
			Light Board Op:

	Fade Time		
CUE#	A CONTRACTOR OF THE PROPERTY O	Lighting Channel Levels	
1	3	1-10 @ 50, 22-24 + 27-29@30, 41-50@85, Gp251@100%Blue & 50%Green	
	2	Dania de Cura 4 Add Cura 202 @ 4000/ Dlura 9, 000/ Cura an	
2	3	Repeat Cue 1, Add Gp303@ 100%Blue & 80%Green	
3	3	1-50 OUT, Leave LED wash on, Add 702@100, 163@65	
4	5	Same as Cue 2	
5	2/6	62-64 +67-69@100, 22-24 +27-29@90, 2-4 + 7-9@50	
6	0	Blackout	
7	0.5	199@100, 163@50, Gp251@50%Blue	
8	1.5	1+2@85, 81+82@100, 121@60, Gp251@80%Blue	
9	5 / 10	4+5@85, 24+25@40, 44+45@85, Gp251@50%Red & 30%Green	

:4	Α	В	С	D	E
	2000				
1	CUE#	Light Cue Numbering System (2 Act Play)		CUE #	Light Cue Numbering System (Dance Show)
2	101	Preshow		1	Preshow
3	102	House to half, curtain speech		2	House to half, curtain speech
4	109	Blackout		3	Blackout
5	110	Transition		9	Transition
6	111	Act 1, Scene 1, First cue		11	First Dance piece, first cue
7	112	Act 1, Scene 1, Second cue		12	First Dance piece, second cue
8	119	Act 1, Scene 1, Last cue (Blackout)		13	First Dance piece, third cue
9	120	Transition Cue		19	First Dance piece, last cue (Blackout)
10	121	Act 1, Scene 2 First cue		20	Transition
11	122	Act 1, Scene 2, Second cue		21	Second Dance piece, first cue
12	129	Act 1, Scene 2, Last cue (Blackout)		22	Second Dance piece, second cue
13	201	Intermission		29	Second Dance piece, third cue (Blackout)
14	211	Act 2, Scene 1, First cue		30	Transition
15	212	Act 2, Scene 1, Second cue		31	Third Dance piece, first cue
16	219	Act 2, Scene 1, Last cue (Blackout)		32	Third Dance piece, second cue
17	220	Transition Cue		39	Third Dance piece, third cue (Blackout)
18	221	Act 2, Scene 2 First cue		2	
19	223	Act 2, Scene 2, Second cue		2	
20	229	Act 2, Scene 2, Last cue (Blackout)		1.5	

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