

LED TEST NRK/ FNF OSLO 30 AUGUST 2016

LED- LIGHT TEST PERFORMED BY NRK & FNF AT THE FACILITIES OF STORYLINE CAMERA, OSLO, NORWAY . 30 AUGUST 2016

CAMERA :

ARRI ALEXA. FIRMWARE 11.1.1 SERIAL N°:8999

PRESET : 3200 for HALOGEN & CANDLE SHOTS.

5600 FOR DAYLIGHT MIXED & HMI AND LEDAYLIGHT SHOTS

800 ISO / 25 FPS / 180°SHUTTER /RAW

1,60 M DISTANCE FROM FRAME TO COLOUR CHARTS

1,40M TO HIS RIGHT EYE.

1,60 TO HER RIGHT EYE

TERMS :

CRI → COLOUR RENDERING INDEX

TLCI-> TELEVISION LIGHTING COLOUR INDEX.

CCT-> CORELATED COLOUR TEMPERATURE

Duv-> DISTANCE (+ OR -) FROM PLANCKIAN LOCUS

OPTICS :

COOKE 5/i :40mm (5040-0185) & 100mm 5100-0185) ANGENIEUX 24-290

T-STOP : DAYLIGHTS : 4,0-5,6. CANDLES : 1,4

DISTANCE : 5,6 METER

LIGHT DIFFUSION

120 X120 CM FRAME WITH LGC. (EXCEPT JULIETTE)

ALL LIGHTGEAR AT 60-70 CM FROM FRAME. (with exeptions)

LIGHTMETERS :

STELLAR NET BLACK COMET

calibrated to Bentham Instruments halogen lamp,NPL standard

*EVERFINE SPIC 200B

**SECONIC 700

* : ** DETAILED MESUREMENT UPON REQUEST

SCENE:	TESTING FIXTURE	INCIDENT (STELLARNET)			REFLECTED (EVERFINE)			
		CRI	TLCI	CCT	CRI (black)	CCT (Black)	CRI (White)	CCT (White)
1	Natural Daylight <i>Natural light from window</i>	98	100	6401	89,9	4701	92,4	4075
8	HMI (arrisun 5) <i>Same distance between source and subject as in Natural daylight setting</i>	92	91	5633	94,2	4769	95,2	4100
9	Halogen (Blonde) <i>Polly, 40 cm further away last slate</i>	99	100	3068	90	3405	88,1	2575
10	Candle Light <i>All light in frame, 70 cm from ground, 11 candles on him, 8 candles on her</i>	99	99	1974				

COMMENTS :

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	SOFTLIGHTS JULIETTE bicolor	INCIDENT LIGHT			REFLECTED LIGHT			
		CRI	TLCI	CCT	CRI (black)	CCT (Black)	CRI (White)	CCT (White)
2	Nat. Daylight + JULIETTE	96	99	5947	96,3	4772	93,3	5218
distance to light 3 m, 0 diffusion.								
18	Daylight	95	99	5353	85,6	4208	85,5	3791
Same direction as natural daylight								
19	Halogen	95	98	3102	85	2964	84,2	2640
same direction as HMI and Natural daylight								
12	Candle	94	88	2010				
Same position as candlelight, same distance, + 1/2 cto, 1/8 cto								
COMMENTS :								

WESTCOTT FLEX	INCIDENT LIGHT			REFLECTED LIGHT			
	CRI	TLCI	CCT	CRI (black)	CCT (Black)	CRI (White)	CCT (White)
Natural Daylight + Westcott	NO DATA			NO DATA			
30 Daylight	97,00	97	5061	87,7	4712	3864	87,1
Same direction as HMI test . Smooth falloff considering the size of the source. 95% It is a bit hard.							
31 Halogen	96,00	98	2992	85,4	3646	2912	83,7
Same direction as HMI and Halogen test. Up 10% by moving it closer to diffusion frame. Still a bit hard..							
11 Candle	94,00	92	1873	NO DATA			
Same position as candlelight, same distance, 1/2 cto + 1/4 cto -Light gridcloth Lee							
COMMENTS :							

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	ARRI-SKYPANEL	INCIDENT LIGHT			REFLECTED LIGHT			
		CRI	TLCI	CCT	CRI (black)	CCT (Black)	CRI (White)	CCT (White)
3	Nat. Daylight + SKY P.	91	91	5819	91,5	5166	89,6	4238
Subject distance from source : 3 m, 216 diffusion								
20	Daylight	95	91	5536	89,5	4613	87,4	3929
Same direction as in HMI test. Frame with Light Grid Cloth								
21	Halogen	95	84	3125	88,3	3577	85,9	2682
Same direction as in HalogenI test. Frame with Light Grid Cloth								
15	Candle	89	55	1868				
Same position as candlelight, same distance, 2800 kelvin, 1/2 + 1/4 cto, Light gridcloth Lee. (Lost 1/16 T stop compared to previous scene. Fixture more in spot ;								
COMMENTS :								

	DMG- SL1	INCIDENT LIGHT			REFLECTED LIGHT			
		CRI	TLCI	CCT	CRI (black)	CCT (Black)	CRI (White)	CCT (White)
4	Nat. Daylight + DMG	95	97	5151	91,3	5193	87,3	4021
Distance form source : 1 m, 216 filter								
22	Daylight	95	97	5351	87,9	4651	85,8	4031
Same direction as in HMI. Frame with LGC								
23	Halogen	97	94	3053	88,2	3674	87,2	2785
Same direction as HMI t. Frame with LGC . 15 cm closer to diffusion than previuos scenes.								
13	Candle	91	69	1914				
Same position as candlelight, same distance, 2x 1/1 cto + light gridcloth Lee								
COMMENTS :								

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		INCIDENT LIGHT			REFLECTED LIGHT			
	BB&S-AREASOFT 48	CRI	TLCI	CCT	CRI (black)	CCT (Black)	CRI (White)	CCT (White)
7	Nat. Daylight + Areasoft 48	91	96	5852	89,2	5349	92,2	4398
Avstand lampe 1 m , fosforplaten er 5600 kelvin, 216 filter								
28	Daylight	92	96	5130	89,8	4888	89,8	3986
Samme utfallsvinkel som hmi test. Light gridcloth Lee, 100 %, 5 cm lenger unna enn de andre.								
29	Halogen	96	97	3069	87	3773	86,5	2828
Samme utfallsvinkel som tungsten test. Light gridcloth Lee 85 % 25 cm lenger unna enn de andre.								
17	Candle	96	92	1854				
Same position as candlelight, same distance, fosfor 2700 1/2 + 1/8 cto + light grid Lee								
COMMENTS :								

	KINOFLO SELECT LED 30	INCIDENT LIGHT			REFLECTED LIGHT			
		CRI	TLCI	CCT	CRI (black)	CCT (Black)	CRI (White)	CCT (White)
5	Nat. Daylight + KINOFLO	96	97	5972	92	5200	88,5	4358
Distance gear is 1 m, Preset at 6000K . 216 diffusion .								
24	Daylight	96	97	5878	87,8	4834	84,7	4190
Same direction as in HMI test. LGC. Drops quickly, 1/8. T stop								
25		96	95	3194	86,7	3986	85	2874
Same direction as Halogen and HMI. LGC . t. Light gridcloth Lee.drops fast, 1/8 T stop ; closer to compensate 3200 preset.								
14	Candle	94	79	1889				
Same position as candlelight, same distance, 2700 kelvin, 1/2 cto + 1/4 cto + light gridcloth Lee								
COMMENTS :								

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	THE LIGHT/VELVET	INCIDENT LIGHT		
		CRI	TLCI	CCT
6	Nat. Daylight + VELVET	84	76	5693

Distance lightgear 1 M. Phosphor 6100. 216 Diffusion

26	Daylight	86	80	5380
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Same direction as HMI. LGC. Light drops 1 /4 T stop between him and her. Looks harder.

27	Halogen	92	90	3325
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Same direction as HMI & Halogen test. LGC. Drops ¼ Stop from him to her. 10% more light to compensat 3200 setting.

16	.	93	86	1901
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1/2 + 1/4 + 1/8 cto + light gridcloth Lee

COMMENTS :

	FILLEX- Q1000	INCIDENT LIGHT			REFLECTED LIGHT			
		CRI	TLCI	CCT	CRI (black)	CCT (Black)	CRI (White)	CCT (White)
32	Daylight	95	97	5376	90,2	5119	90,5	4058
<i>Same direction as HMI test. 85 cm Fresnell LED,(?) LGC + 129 heavy frost</i>								
33	Halogen	97	99	3151	85,4	3750	83,5	2801

Same direction as Halogen test. 60 cm distance between frame and Fixture. REMOVED LGC , but kept heavy frost. (129 Lee) .

COMMENTS :