

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

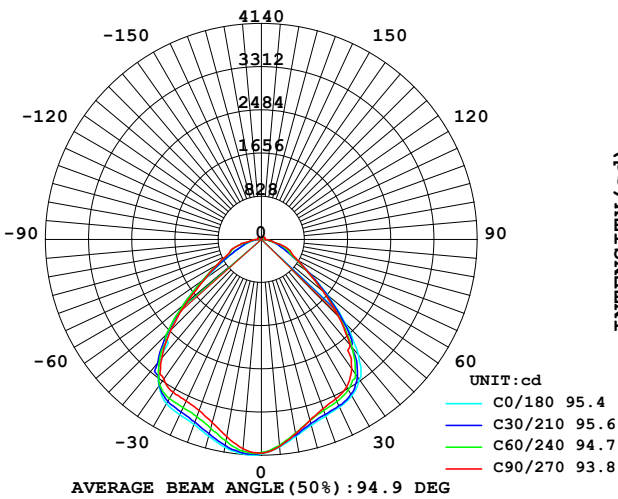
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

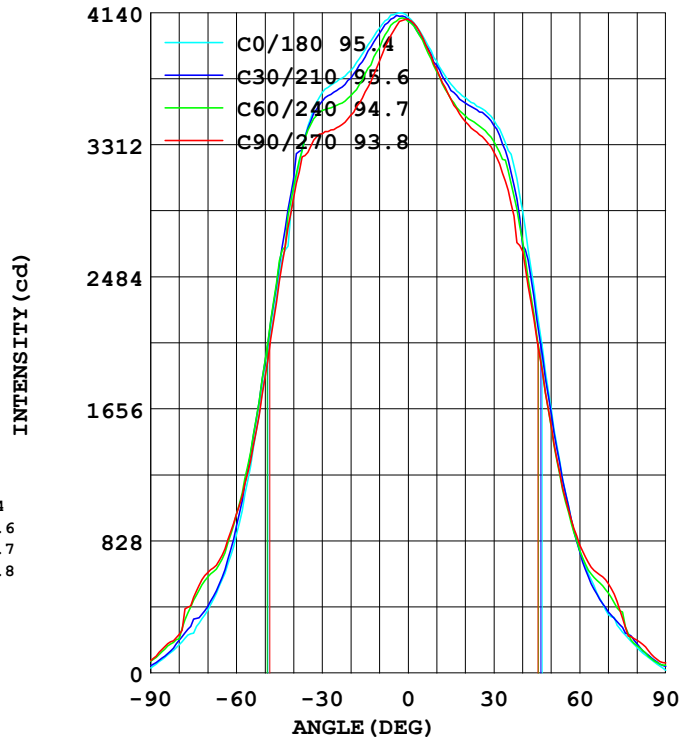
MANUFACTURER: TRONIX LIGHTING		
Address:		
NAME: 952-078	TYPE: LED linear light	WEIGHT:
SPECIFICATION:	DIMENSION: 1500X65mm	SERIAL No.:

DATA OF LAMP		Imax (cd)	4140	S/MH (C0/180)	1.31
MODEL		EFFICIENCY (%)	100.0	S/MH (C90/270)	1.25
NOMINAL POWER(W)	72	TOTAL FLUX(lm)	9357.3	Voltage (V)	230.1
RATED VOLTAGE (V)	230	EFFICIENCY (lm/W)	131.7	Current (A)	0.323
NOMINAL FLUX(lm)	9357.3	up (%)	2.9	Power (W)	71.07
LAMPS QUANTITY	1	down (%)	97.1	Power Factor (PF)	0.955
TEST VOLTAGE (V)	230.1	Effective Flux(lm)	8716.8	EEI	0.111

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



Test System:HOPOO HPG1800  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2018 07! 30"

Test Set: 8.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:11.000 m  
 Remarks:

Color Temperature Data List

Report number:

MANUFACTURER: TRONIX LIGHTING		
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Test Date:2018 07! 30"

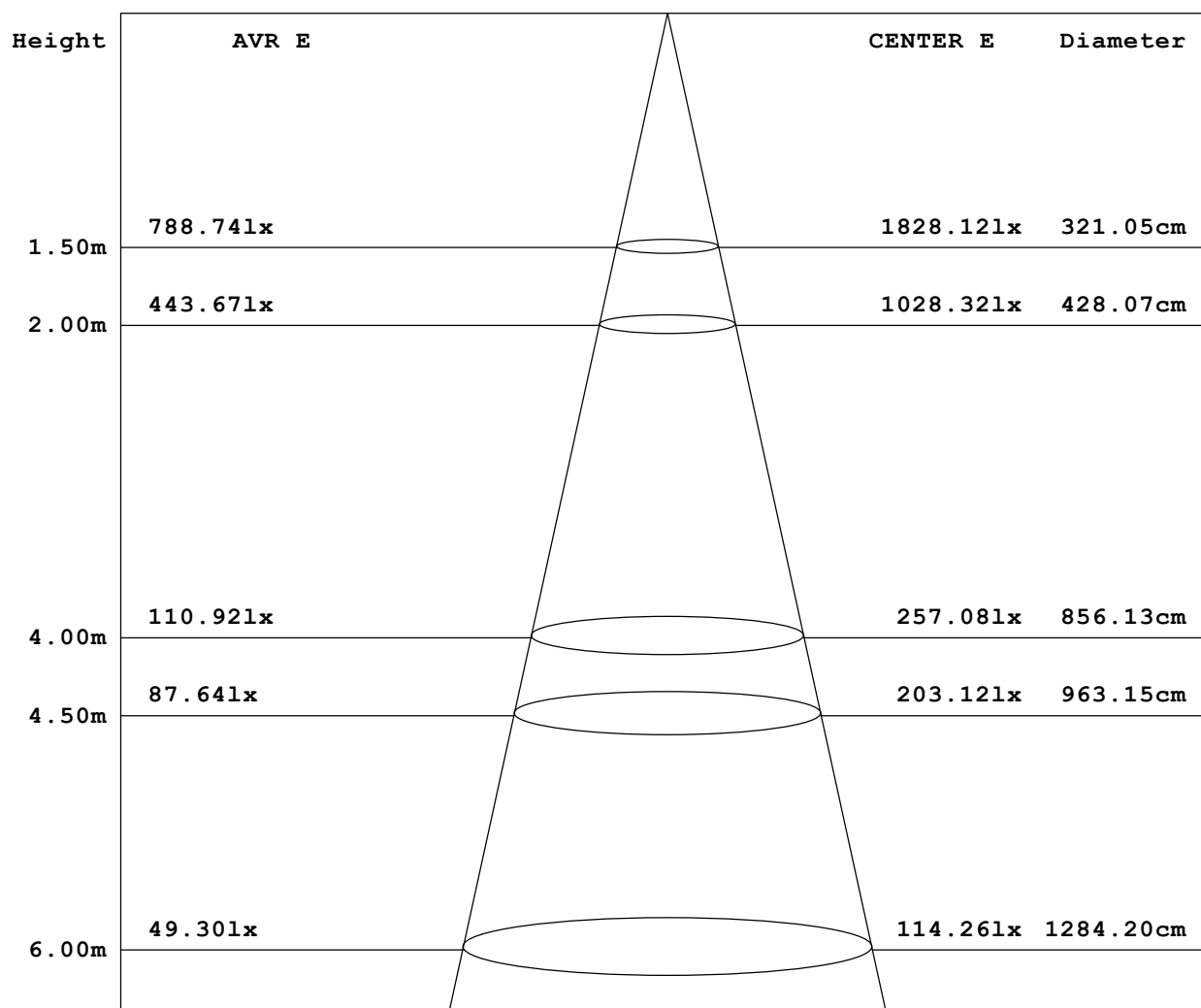
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# HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

## AVERAGE AND CENTER E Figure

Report number:

MANUFACTURER: TRONIX LIGHTING		
Address:		
NAME: 952-078	TYPE: LED linear light	WEIGHT:
SPECIFICATION:	DIMENSION: 1500X65mm	SERIAL No.:



Angle: 93.9deg

Test System: HOPOO HPG1800  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2018 07! 30"

Test Set: 8.0deg/s C-Gamma (TYPE C)  
 Humidity: 65.0%  
 Test Distance: 11.000 m  
 Remarks:

# HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

## ZONAL FLUX DIAGRAM

Report number:

MANUFACTURER: TRONIX LIGHTING		
Address:		
NAME: 952-078	TYPE: LED linear light	WEIGHT:
SPECIFICATION:	DIMENSION: 1500X65mm	SERIAL No.:

	C0	C45	C90	C135	C180	C225	C270	C315		zone	total
5.0	4128	4092	4028	3954	3998	3974	3987	4018	0- 5	96.88	96.88
10.0	4043	3965	3839	3777	3836	3792	3785	3885	5- 10	281.4	378.3
15.0	3910	3810	3645	3608	3691	3624	3597	3711	10- 15	447.4	825.8
20.0	3779	3674	3496	3491	3608	3533	3456	3595	15- 20	598.0	1424
25.0	3708	3606	3418	3434	3547	3473	3374	3548	20- 25	742.8	2167
30.0	3640	3556	3381	3401	3467	3383	3267	3473	25- 30	882.2	3049
35.0	3429	3409	3264	3263	3276	3182	3026	3286	30- 35	992.4	4041
40.0	2996	3070	2974	2915	2895	2692	2643	2820	35- 40	1032	5073
45.0	2498	2576	2460	2387	2276	2169	2098	2275	40- 45	967.4	6041
50.0	1871	1952	1852	1741	1660	1588	1553	1705	45- 50	822.8	6863
55.0	1296	1378	1330	1220	1129	1100	1091	1178	50- 55	636.7	7500
60.0	869.3	960.6	998.2	874.2	769.4	767.0	804.7	810.5	55- 60	473.8	7974
65.0	584.7	656.3	737.6	617.4	546.0	561.8	643.1	583.0	60- 65	350.7	8325
70.0	391.6	508.8	630.0	504.5	367.2	440.8	558.0	470.5	65- 70	275.8	8601
75.0	249.0	397.4	475.0	387.0	256.2	334.6	344.2	355.4	70- 75	219.1	8820
80.0	177.3	209.6	241.2	201.7	160.5	177.9	206.5	182.7	75- 80	142.4	8962
85.0	98.01	127.2	166.2	122.2	83.73	92.32	117.7	99.94	80- 85	82.73	9045
90.0	31.09	59.47	77.80	54.75	17.54	45.55	62.31	48.46	85- 90	42.59	9088
95.0	11.25	47.97	71.14	49.91	8.349	47.43	79.98	51.84	90- 95	25.49	9113
100.0	9.438	41.86	72.35	44.95	8.712	42.22	73.44	44.95	95-100	23.58	9137
105.0	10.89	42.22	70.42	45.79	10.89	44.22	74.17	46.34	100-105	23.08	9160
110.0	12.46	43.07	70.05	46.64	14.03	44.95	74.41	46.64	105-110	23.02	9183
115.0	14.76	43.92	71.38	47.67	16.94	45.98	75.62	47.25	110-115	22.80	9206
120.0	16.45	44.52	74.05	48.82	19.60	46.22	77.68	46.82	115-120	22.48	9228
125.0	19.23	44.64	75.98	49.67	22.50	45.19	76.83	45.01	120-125	21.71	9250
130.0	21.65	43.43	74.53	49.18	25.41	42.89	71.26	42.10	125-130	20.21	9270
135.0	23.71	41.07	69.45	47.06	27.83	40.29	62.43	38.29	130-135	17.97	9288
140.0	26.25	37.93	61.58	43.43	30.00	37.69	53.60	35.21	135-140	15.40	9303
145.0	28.43	36.05	52.15	40.41	32.30	36.42	47.06	33.33	140-145	12.96	9316
150.0	30.25	34.72	46.34	38.05	33.39	35.45	42.47	33.09	145-150	10.88	9327
155.0	32.18	34.00	40.77	36.54	34.60	35.27	38.23	33.27	150-155	9.045	9336
160.0	33.63	34.36	37.38	35.87	35.57	35.51	36.42	34.30	155-160	7.388	9344
165.0	34.96	34.84	35.93	35.99	36.05	36.17	37.02	35.02	160-165	5.840	9350
170.0	36.54	35.75	36.30	36.72	36.78	36.54	37.38	35.57	165-170	4.265	9354
175.0	37.26	36.48	37.14	36.96	37.38	36.90	37.75	36.05	170-175	2.616	9356
180.0	37.87	37.14	37.38	36.84	37.51	36.96	37.99	36.72	175-180	0.885	9357
DEG	LUMINOUS INTENSITY:cd									UNIT: lm	

Test System:HOPOO HPG1800  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2018 07! 30"

Test Set: 8.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:11.000 m  
 Remarks:

**HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT**

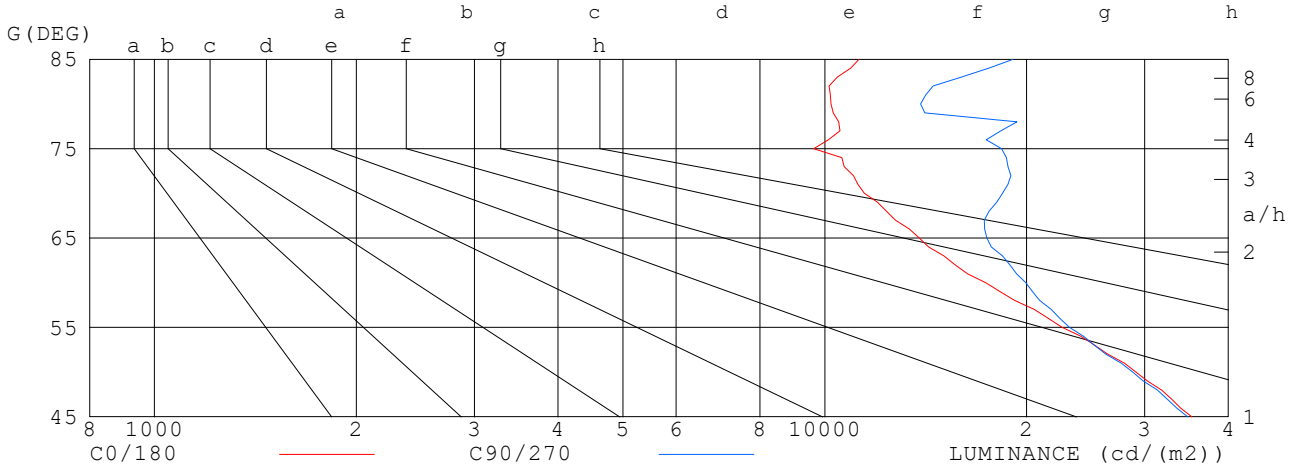
**LUMINANCE LIMITATION CURVES**

Report number:

<b>MANUFACTURER: TRONIX LIGHTING</b>		
<b>Address:</b>		
<b>NAME: 952-078</b>	<b>TYPE: LED linear light</b>	<b>WEIGHT:</b>
<b>SPECIFICATION:</b>	<b>DIMENSION: 1500X65mm</b>	<b>SERIAL No.:</b>

**LUMINANCE LIMITATION CURVES**

GLARE	CLASS	ILLUMINANCE (lx)							
		2000	1000	500	<=300	<=300	<=300	<=300	<=300
1.15	A	2000	1000	500	<=300	<=300	<=300	<=300	<=300
1.50	B		2000	1000	500	<=300	<=300	<=300	<=300
1.85	C			2000	1000	500	<=300	<=300	<=300
2.20	D				2000	1000	500	<=300	<=300
2.55	E					2000	1000	500	<=300



G (DEG)	LUMINANCE cd/m2	
	C0/180	C90/270
85	11245	19076
80	10215	13894
75	9621	18354
70	11452	18421
65	13837	17453
60	17388	19965
55	22596	23184
50	29114	28805
45	35326	34794

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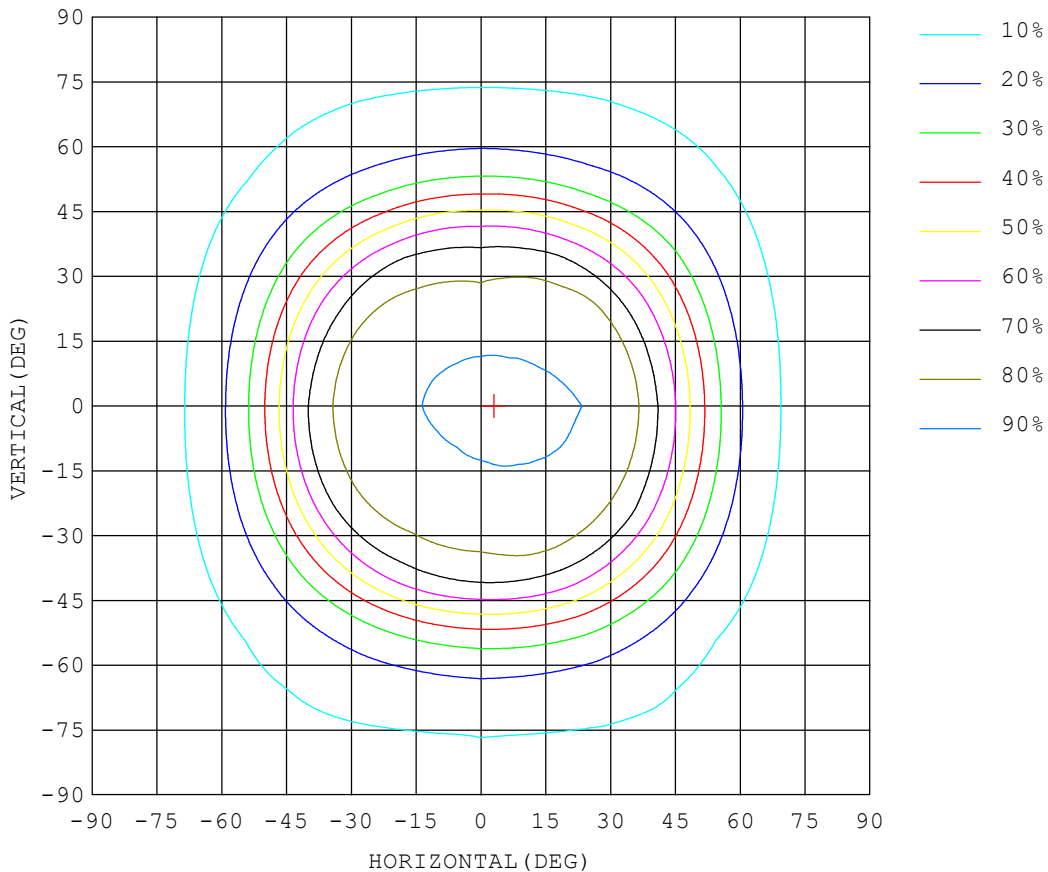
**HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT**

**ISOCANDELA DIAGRAM**

Report number:

MANUFACTURER: TRONIX LIGHTING		
Address:		
NAME: 952-078	TYPE: LED linear light	WEIGHT:
SPECIFICATION:	DIMENSION: 1500X65mm	SERIAL No.:

UNIT: cd



Test System:HOPOO HPG1800  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2018 07! 30"

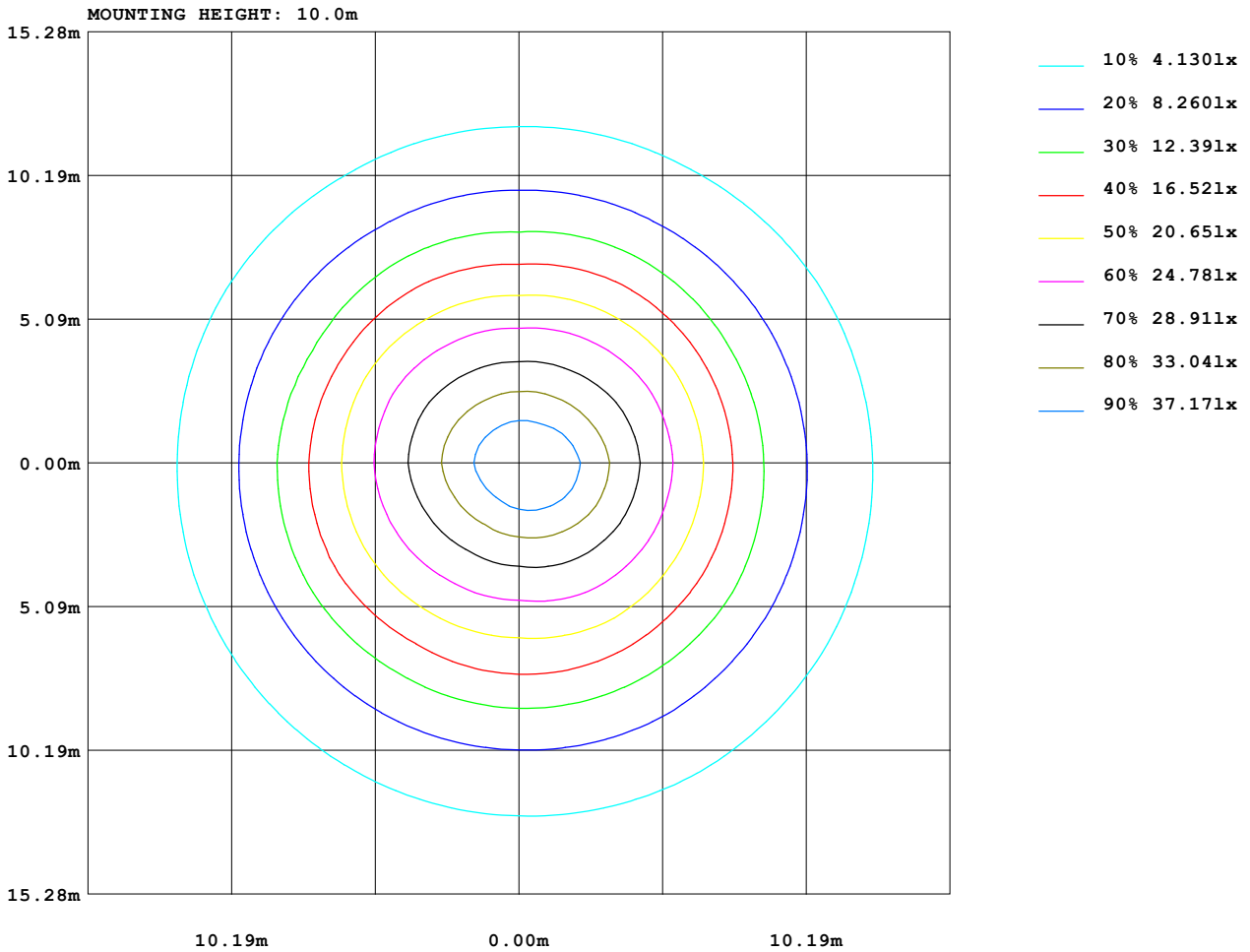
Test Set: 8.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:11.000 m  
 Remarks:

**HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT**

**ISOLUX DIAGRAM**

Report number:

MANUFACTURER: TRONIX LIGHTING		
Address:		
NAME: 952-078	TYPE: LED linear light	WEIGHT:
SPECIFICATION:	DIMENSION: 1500X65mm	SERIAL No.:



Test System:HOPOO HPG1800  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2018 07! 30"

Test Set: 8.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:11.000 m  
 Remarks:

# HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

## AREA LUMINOUS FLUX

Report number:

MANUFACTURER: TRONIX LIGHTING		
Address:		
NAME: 952-078	TYPE: LED linear light	WEIGHT:
SPECIFICATION:	DIMENSION: 1500X65mm	SERIAL No.:

VERTICAL (DEG)	AREA FLUX DIAGRAM																	UNIT: lm	Φ t	Φ a
	90	80	70	60	50	40	30	20	10	0	10	20	30	40	50	60	70	80	90	
90	0.08	0.34	0.74	1.20	1.65	2.09	2.60	3.18	3.63	3.64	3.22	2.67	2.20	1.80	1.35	0.87	0.42	0.11	31.8	0.00
80	0.11	0.59	1.46	2.69	4.15	6.03	8.00	9.60	10.6	10.6	9.63	8.02	6.09	4.26	2.89	1.63	0.70	0.14	87.2	21.9
70	0.15	0.88	2.39	4.69	7.95	11.7	15.2	17.9	19.6	19.7	18.1	15.6	12.2	8.52	5.05	2.56	0.99	0.18	164	133
60	0.18	1.18	3.32	6.54	11.2	17.1	23.6	29.6	33.4	33.6	30.2	24.2	17.9	11.9	7.20	3.59	1.29	0.22	257	239
50	0.22	1.47	4.22	8.75	16.7	28.6	42.6	55.5	62.8	63.3	57.0	44.7	30.6	18.1	9.37	4.57	1.59	0.25	451	439
40	0.24	1.72	5.11	11.8	25.3	46.1	68.3	84.4	90.5	91.0	85.9	70.5	49.3	27.9	12.8	5.48	1.84	0.28	679	670
30	0.26	1.94	5.98	15.2	35.1	63.2	86.9	98.5	102	103	100	89.6	66.0	38.7	17.0	6.41	2.05	0.30	833	826
20	0.28	2.09	6.72	18.3	43.5	74.6	94.8	104	108	109	106	97.9	77.4	47.2	20.7	7.25	2.18	0.32	921	914
10	0.28	2.15	7.15	20.1	48.4	80.0	97.2	108	118	120	112	101	83.3	51.9	23.0	7.77	2.24	0.33	982	976
0	0.29	2.17	7.20	20.3	48.8	80.6	96.7	107	117	122	113	102	84.0	52.6	23.3	7.81	2.24	0.33	988	982
-10	0.28	2.13	6.83	18.7	44.6	76.9	94.4	102	109	112	108	99.0	80.2	49.1	21.4	7.36	2.19	0.32	934	928
-20	0.27	1.99	6.16	15.8	36.6	66.9	89.5	99.3	103	105	104	93.4	71.4	41.4	18.0	6.53	2.06	0.30	862	855
-30	0.24	1.80	5.34	12.4	26.8	49.8	74.1	89.9	97.6	98.9	93.4	78.2	55.0	30.8	13.7	5.51	1.87	0.28	736	728
-40	0.22	1.53	4.52	9.31	18.2	31.9	48.6	63.7	72.5	73.5	67.0	53.4	35.9	20.4	9.89	4.53	1.62	0.25	517	506
-50	0.19	1.21	3.66	7.18	12.4	19.5	27.9	35.4	40.4	41.1	37.4	30.2	21.2	13.0	7.18	3.68	1.32	0.22	304	286
-60	0.15	0.90	2.54	5.39	9.19	13.5	17.6	20.6	22.7	22.9	21.1	18.1	13.8	9.29	5.40	2.67	0.99	0.18	188	162
-70	0.12	0.62	1.53	2.93	4.91	7.44	10.1	12.3	13.8	13.9	12.7	10.7	8.01	5.25	3.11	1.63	0.69	0.14	110	52.2
-80	0.08	0.35	0.79	1.40	2.16	2.98	3.72	4.30	4.72	4.77	4.44	3.93	3.18	2.29	1.47	0.86	0.42	0.11	42.0	0.00
-90	0.08	0.35	0.79	1.40	2.16	2.98	3.72	4.30	4.72	4.77	4.44	3.93	3.18	2.29	1.47	0.86	0.42	0.11	42.0	0.00
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	
Φ t	3.63	25.1	75.7	183	398	680	903	1045	1131	1149	1083	944	718	435	203	80.7	26.7	4.28	9357	
Φ a	0.00	0.00	39.9	155	376	661	885	1027	1113	1131	1065	926	700	413	177	47.4	0.00	0.00		8717

Test System: HOPOO HPG1800  
 Temperature: 25.3 DEG  
 Operators:  
 Test Date: 2018 07! 30"

Test Set: 8.0deg/s C-Gamma (TYPE C)  
 Humidity: 65.0%  
 Test Distance: 11.000 m  
 Remarks:



# HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

## Uncorrected UGR Table

Report number:

MANUFACTURER: TRONIX LIGHTING										
Address:										
NAME: 952-078					TYPE: LED linear light			WEIGHT:		
SPECIFICATION:					DIMENSION: 1500X65mm			SERIAL No.:		
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	23.3	24.7	23.6	24.9	25.2	23.6	24.9	23.9	25.2	25.4
3H	23.8	25.0	24.1	25.3	25.6	24.5	25.7	24.8	26.0	26.3
4H	24.0	25.1	24.3	25.4	25.7	25.0	26.2	25.4	26.5	26.8
6H	24.1	25.2	24.5	25.5	25.9	25.4	26.5	25.8	26.8	27.1
8H	24.2	25.2	24.6	25.6	25.9	25.5	26.5	25.9	26.9	27.2
12H	24.2	25.3	24.6	25.6	25.9	25.6	26.6	26.0	27.0	27.3
4H 2H	23.6	24.7	23.9	25.0	25.3	23.8	24.9	24.1	25.2	25.5
3H	24.2	25.2	24.5	25.5	25.9	25.0	26.0	25.3	26.3	26.7
4H	24.5	25.4	24.9	25.8	26.1	25.6	26.6	26.1	26.9	27.3
6H	24.8	25.6	25.2	26.0	26.4	26.1	27.0	26.6	27.4	27.8
8H	24.9	25.6	25.3	26.1	26.5	26.3	27.1	26.8	27.5	27.9
12H	25.0	25.7	25.5	26.1	26.6	26.5	27.2	27.0	27.6	28.1
8H 4H	24.7	25.5	25.2	25.9	26.3	25.8	26.5	26.2	26.9	27.4
6H	25.1	25.8	25.6	26.2	26.7	26.4	27.0	26.9	27.4	27.9
8H	25.3	25.9	25.8	26.3	26.8	26.6	27.2	27.1	27.6	28.2
12H	25.5	26.0	26.0	26.5	27.0	26.9	27.4	27.5	27.9	28.5
12H 4H	24.7	25.4	25.2	25.8	26.3	25.8	26.4	26.2	26.9	27.3
6H	25.2	25.7	25.7	26.2	26.7	26.4	26.9	26.9	27.4	27.9
8H	25.4	25.9	25.9	26.4	26.9	26.7	27.2	27.2	27.7	28.2
Variations with the observer position at spacings:										
S = 1.0H	+ 0.5 / - 0.7					+ 0.3 / - 0.4				
1.5H	+ 0.3 / - 0.4					+ 0.3 / - 0.3				
2.0H	+ 1.2 / - 1.2					+ 0.9 / - 0.7				

CIE Pub.117 Corrected 9357 lm Total Lamp Luminous Flux. (8log(F/F0) = 7.8)

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 Operators:  
 Test Date:2018 07! 30"

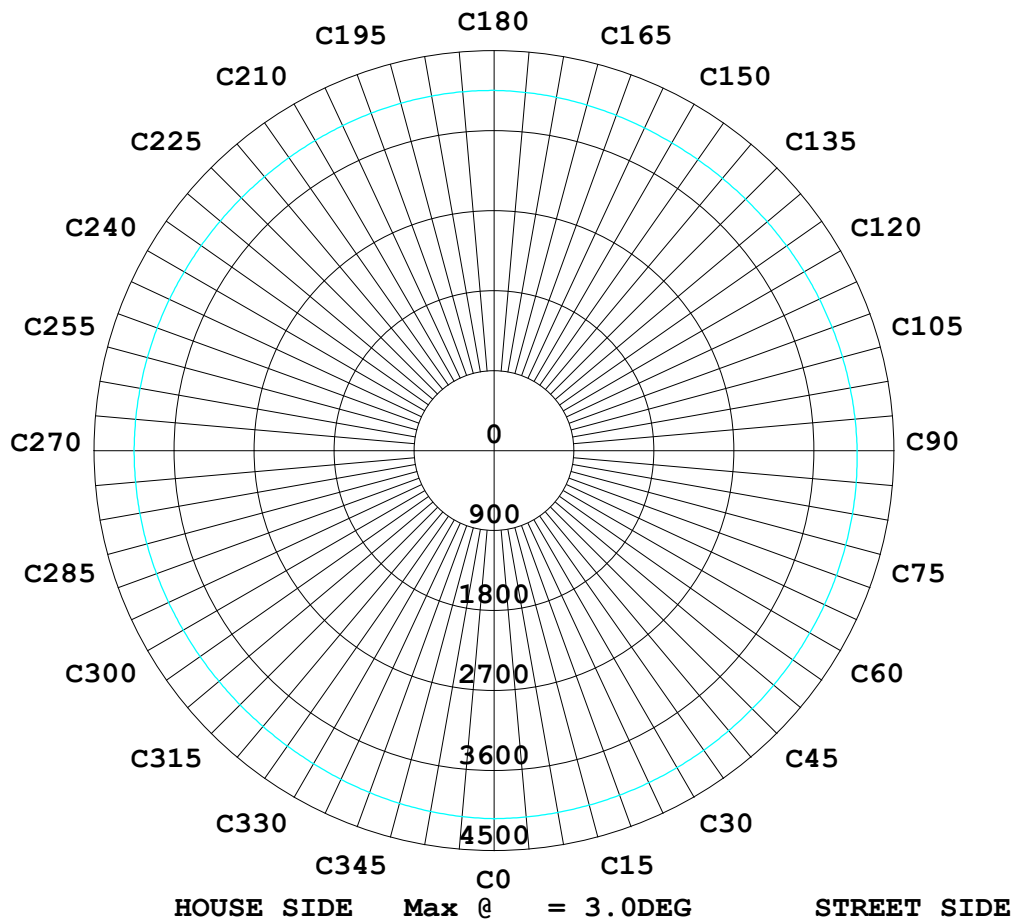
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**ISOCANDELA DIAGRAM**

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