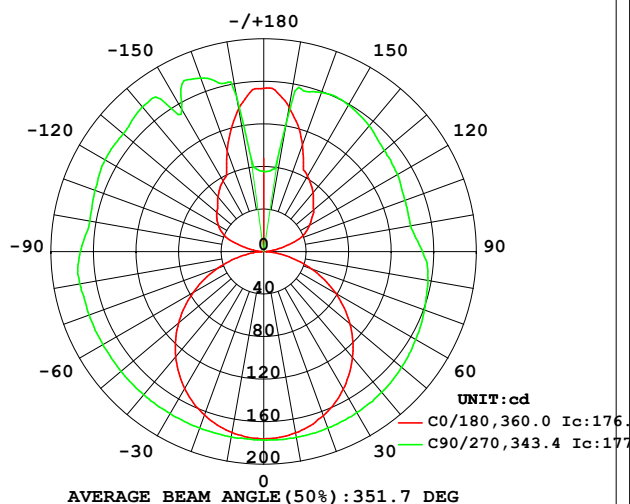


LUMINAIRE PHOTOMETRIC TEST REPORT

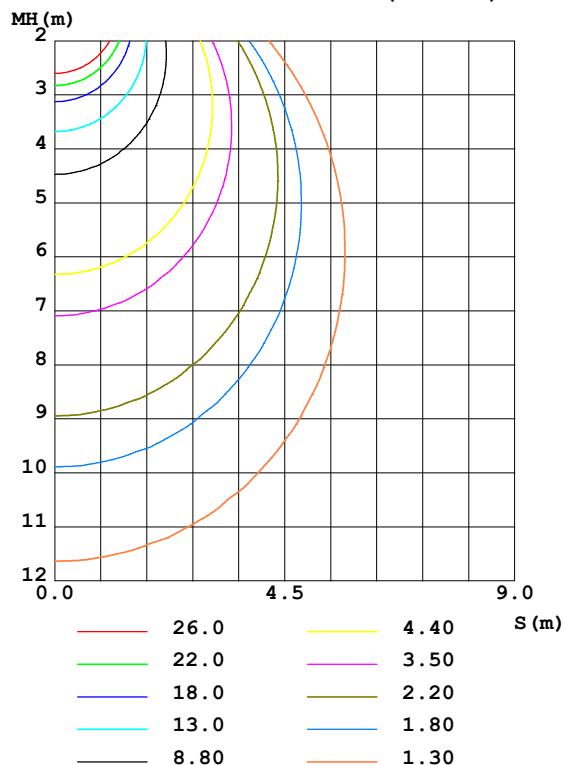
Test:U:120.00V I:0.1678A P:19.75W PF:0.9808 Freq:60.00Hz Lamp Flux:1510.99x1 lm		
NAME: --	TYPE:--	SERIAL No.:FTS23041301L-02
SPEC.:RSKV3605L30D1(C22001W-1)	DIM.: --	
MFR.:	SUR.:890mm	

DATA OF LAMP		PHOTOMETRIC DATA Eff: 76.51 lm/W			
MODEL	--	I _{max} (cd)	183.0	S/MH(C0/180)	1.26
NOMINAL POWER(W)	--	LOR(%)	100.0	S/MH(C90/270)	1.52
RATED VOLTAGE(V)	--	TOTAL FLUX(lm)	1511.0	η UP,DN(C0-180)	21.3,27.1
NOMINAL FLUX(lm)	1510.99	CIE CLASS	DIFFUSE	η UP,DN(C180-360)	23.9,27.7
LAMPS INSIDE	1	η up(%)	45.2	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	--	η down(%)	54.8	CIBSE SHR MAX	1.55

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason Huang
Test Date:2023-04-13

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.404.7
Humidity:65.0%
Test Distance:13.486m [K=1.0000]
Remarks: ---

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	172.9	174.5	177.3	181.6	172.8	174.4	177.0	179.3	0- 10	17.00	17.00	1.13,1.13
20	164.4	170.1	176.3	177.5	163.5	170.1	176.4	173.7	10- 20	49.60	66.60	4.41,4.41
30	149.4	162.6	174.8	170.0	148.7	163.2	176.0	165.2	20- 30	78.06	144.7	9.57,9.57
40	129.9	152.5	172.7	160.1	128.9	154.0	175.9	154.6	30- 40	100.2	244.9	16.2,16.2
50	105.9	141.0	169.2	148.2	104.5	144.1	175.2	143.0	40- 50	114.8	359.7	23.8,23.8
60	78.14	128.5	165.1	135.3	76.30	134.2	174.8	131.4	50- 60	121.4	481.1	31.8,31.8
70	47.97	117.0	160.8	122.8	46.15	126.1	174.6	121.3	60- 70	121.1	602.2	39.9,39.9
80	18.86	107.0	156.8	111.7	17.34	120.8	175.6	114.0	70- 80	115.9	718.1	47.5,47.5
90	2.200	99.09	149.4	101.1	1.684	116.3	172.4	108.1	80- 90	109.7	827.8	54.8,54.8
100	11.61	90.01	140.4	91.75	11.75	111.2	166.1	100.2	90-100	99.84	927.7	61.4,61.4
110	35.53	94.66	141.4	95.66	36.42	118.7	169.1	108.6	100-110	99.52	1027	68,68
120	49.89	103.3	145.3	104.1	49.29	124.3	172.4	117.2	110-120	103.2	1130	74.8,74.8
130	61.41	118.2	148.3	118.3	57.77	139.0	172.6	133.9	120-130	102.3	1233	81.6,81.6
140	72.30	131.5	154.3	112.4	67.22	130.1	177.6	144.1	130-140	94.01	1327	87.8,87.8
150	82.34	139.8	159.2	90.84	76.77	101.2	154.0	147.7	140-150	77.91	1405	93,93
160	106.5	151.6	159.3	82.77	100.6	89.92	173.5	155.2	150-160	57.42	1462	96.8,96.8
170	138.1	159.1	123.8	115.7	136.6	123.0	148.3	158.0	160-170	36.20	1498	99.2,99.2
180	153.6	153.2	75.42	147.9	153.6	153.1	75.64	148.0	170-180	12.81	1511	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 300.98 lm

%lum = 19.9%

%lamp = 19.9%

Conical surface Flux(120deg): 481.11 lm

%lum = 31.8%

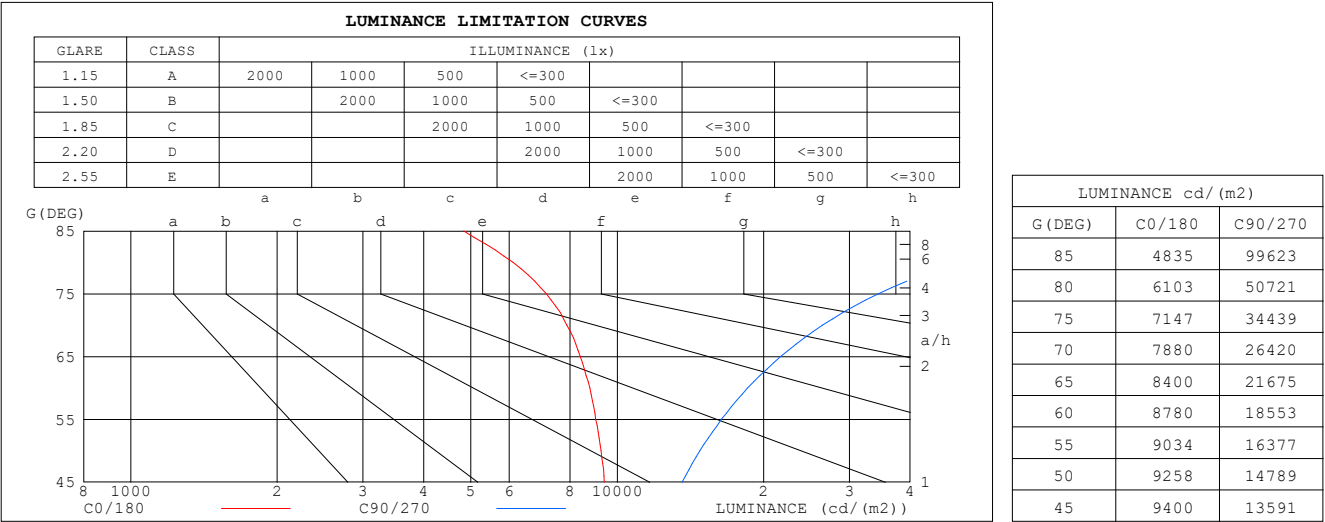
%lamp = 31.8%

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason Huang
Test Date:2023-04-13

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.404.7
Humidity:65.0%
Test Distance:13.486m [K=1.0000]
Remarks: ---

LUMINANCE LIMITATION CURVES

Test:U:120.00V I:0.1678A P:19.75W PF:0.9808 Freq:60.00Hz Lamp Flux:1510.99x1 lm		
NAME: --	TYPE:--	SERIAL No.:FTS23041301L-02
SPEC.:RSKV3605L30D1 (C22001W-1)	DIM.: --	
MFR.:	SUR.:890mm	



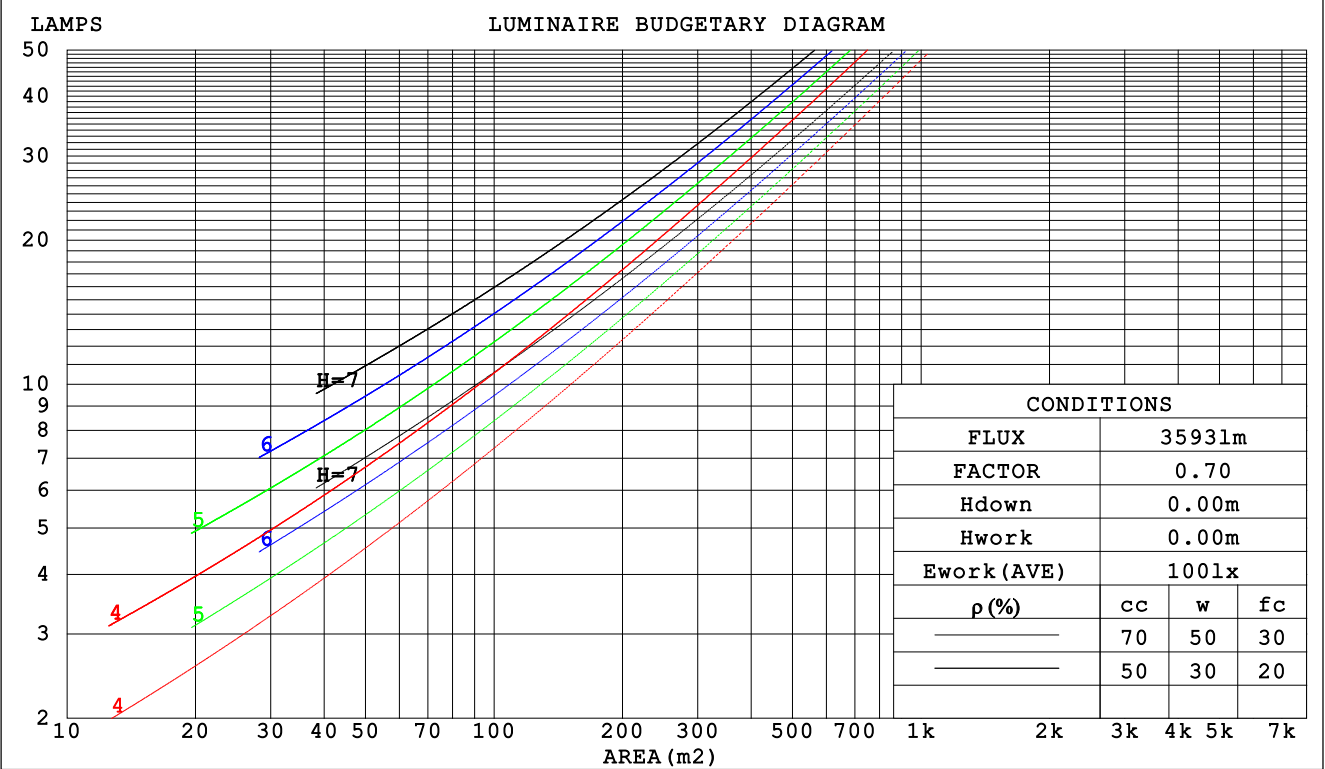
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason Huang
Test Date:2023-04-13

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.404.7
Humidity:65.0%
Test Distance:13.486m [K=1.0000]
Remarks: ---

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.00V I:0.1678A P:19.75W PF:0.9808 Freq:60.00Hz Lamp Flux:1510.99x1 lm		
NAME: --	TYPE:--	SERIAL No.:FTS23041301L-02
SPEC.:RSKV3605L30D1 (C22001W-1)	DIM.: --	
MFR.:	SUR.:890mm	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio Coefficients of Utilization(CU)															
0.0	1.08	1.08	1.08	1.01	1.01	1.01	.86	.86	.86	.73	.73	.73	.61	.61	.61	.55
1.0	.90	.84	.80	.83	.78	.74	.70	.67	.64	.59	.56	.54	.48	.46	.44	.39
2.0	.77	.69	.63	.71	.64	.58	.60	.55	.50	.50	.46	.42	.41	.38	.35	.30
3.0	.66	.58	.51	.61	.54	.47	.52	.46	.41	.43	.38	.35	.35	.31	.28	.24
4.0	.58	.49	.42	.54	.46	.39	.45	.39	.34	.38	.33	.29	.31	.27	.24	.20
5.0	.51	.42	.36	.48	.39	.33	.40	.34	.29	.34	.29	.24	.27	.23	.20	.17
6.0	.46	.37	.30	.42	.34	.29	.36	.30	.25	.30	.25	.21	.25	.21	.17	.14
7.0	.41	.33	.26	.38	.30	.25	.33	.26	.22	.27	.22	.18	.22	.18	.15	.13
8.0	.37	.29	.23	.35	.27	.22	.30	.23	.19	.25	.20	.16	.20	.17	.14	.11
9.0	.34	.26	.20	.32	.24	.19	.27	.21	.17	.23	.18	.14	.19	.15	.12	.10
10.0	.31	.23	.18	.29	.22	.17	.25	.19	.15	.21	.16	.13	.17	.14	.11	.09



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason Huang
Test Date:2023-04-13

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.404.7
Humidity:65.0%
Test Distance:13.486m [K=1.0000]
Remarks: ---

GONIOPHOTOMETERS SYSTEM TEST REPORT

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WEC AND CCEC

Test:U:120.00V I:0.1678A P:19.75W PF:0.9808 Freq:60.00Hz Lamp Flux:1510.99x1 lm									
NAME: --					TYPE:--			SERIAL No.:FTS23041301L-02	
SPEC.:RSKV3605L30D1(C22001W-1)					DIM.: --				
MFR.:					SUR.:890mm				

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coeffcients (WEC)									
0.0																
1.0	.375	.213	.067	.354	.202	.064	.314	.180	.058	.278	.161	.052	.245	.142	.046	
2.0	.320	.176	.054	.301	.166	.051	.266	.148	.046	.233	.131	.041	.202	.114	.036	
3.0	.283	.151	.045	.266	.143	.043	.233	.127	.038	.203	.111	.034	.175	.097	.030	
4.0	.255	.132	.039	.239	.125	.037	.209	.111	.033	.181	.097	.029	.155	.084	.026	
5.0	.232	.118	.034	.217	.111	.032	.189	.099	.029	.164	.086	.026	.140	.075	.022	
6.0	.212	.106	.030	.199	.100	.029	.173	.089	.026	.150	.078	.023	.128	.067	.020	
7.0	.196	.097	.027	.183	.091	.026	.160	.081	.023	.138	.071	.021	.117	.061	.018	
8.0	.182	.089	.025	.170	.084	.024	.148	.074	.021	.128	.065	.019	.109	.056	.016	
9.0	.169	.082	.023	.159	.077	.022	.138	.068	.019	.119	.060	.017	.101	.051	.015	
10.0	.158	.076	.021	.148	.072	.020	.130	.063	.018	.112	.055	.016	.095	.048	.014	

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.535	.535	.535	.457	.457	.457	.312	.312	.312	.179	.179	.179	.057	.057	.057	
1.0	.532	.503	.477	.455	.432	.410	.311	.297	.284	.179	.172	.165	.057	.055	.053	
2.0	.526	.481	.444	.450	.414	.384	.309	.287	.268	.178	.167	.157	.057	.054	.051	
3.0	.519	.466	.424	.445	.402	.368	.305	.279	.258	.176	.163	.152	.057	.053	.050	
4.0	.511	.454	.411	.439	.392	.357	.302	.273	.251	.175	.160	.149	.056	.052	.049	
5.0	.504	.445	.401	.433	.385	.349	.298	.269	.247	.173	.158	.146	.056	.052	.048	
6.0	.497	.438	.395	.427	.379	.344	.295	.265	.243	.171	.156	.145	.055	.051	.048	
7.0	.490	.431	.390	.422	.374	.340	.292	.262	.241	.169	.154	.143	.055	.051	.047	
8.0	.484	.426	.386	.417	.370	.337	.288	.259	.239	.168	.153	.142	.054	.050	.047	
9.0	.478	.422	.383	.412	.366	.334	.285	.257	.237	.166	.152	.142	.054	.050	.047	
10.0	.473	.418	.381	.408	.363	.333	.283	.255	.236	.165	.151	.141	.053	.050	.047	

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason Huang
Test Date:2023-04-13

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.404.7
Humidity:65.0%
Test Distance:13.486m [K=1.0000]
Remarks: ---

GONIOPHOTOMETERS SYSTEM TEST REPORT

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UGR(Unified Glare Rating) Table

Test:U:120.00V I:0.1678A P:19.75W PF:0.9808 Freq:60.00Hz Lamp Flux:1510.99x1 lm										
NAME: --					TYPE:--			SERIAL No.:FTS23041301L-02		
SPEC.:RSKV3605L30D1(C22001W-1)					DIM.: --					
MFR.:					SUR.:890mm					
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	17.0	18.0	17.8	18.9	19.9	20.1	21.2	20.9	22.0	23.1
3H	18.4	19.4	19.3	20.3	21.4	23.3	24.2	24.1	25.1	26.2
4H	19.0	19.9	19.9	20.8	21.9	25.0	26.0	25.9	26.8	27.9
6H	19.4	20.3	20.3	21.1	22.3	27.0	27.9	27.9	28.8	29.9
8H	19.5	20.3	20.4	21.2	22.4	28.1	29.0	29.0	29.9	31.0
12H	19.6	20.4	20.5	21.3	22.4	29.4	30.2	30.3	31.1	32.3
4H 2H	18.5	19.4	19.3	20.3	21.4	20.6	21.6	21.5	22.4	23.5
3H	20.3	21.1	21.2	22.0	23.1	24.0	24.8	24.9	25.7	26.9
4H	21.1	21.8	22.0	22.7	23.9	26.0	26.7	26.9	27.6	28.8
6H	21.7	22.4	22.6	23.3	24.5	28.2	28.9	29.1	29.8	31.0
8H	21.9	22.5	22.8	23.5	24.7	29.5	30.1	30.4	31.0	32.2
12H	22.0	22.6	23.0	23.6	24.8	30.9	31.4	31.8	32.4	33.6
8H 4H	22.7	23.3	23.6	24.2	25.5	26.3	26.9	27.2	27.9	29.1
6H	23.8	24.3	24.8	25.3	26.5	28.8	29.4	29.8	30.3	31.6
8H	24.3	24.8	25.3	25.7	27.0	30.3	30.8	31.3	31.8	33.0
12H	24.7	25.1	25.7	26.1	27.3	32.0	32.4	33.0	33.4	34.7
12H 4H	23.2	23.8	24.2	24.8	26.0	26.3	26.9	27.3	27.8	29.1
6H	24.7	25.2	25.7	26.1	27.4	29.0	29.4	29.9	30.4	31.7
8H	25.4	25.8	26.4	26.8	28.1	30.6	31.0	31.5	31.9	33.2
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.2					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.3 / - 0.4				

CIE Pub.117, 1511 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 1.4$)

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason Huang
Test Date:2023-04-13

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.404.7
Humidity:65.0%
Test Distance:13.486m [K=1.0000]
Remarks: ---

UTILIZATION FACTORS TABLE

Test:U:120.00V I:0.1678A P:19.75W PF:0.9808 Freq:60.00Hz Lamp Flux:1510.99x1 lm		
NAME: --	TYPE:--	SERIAL No.:FTS23041301L-02
SPEC.:RSKV3605L30D1(C22001W-1)	DIM.: --	
MFR.:	SUR.:890mm	

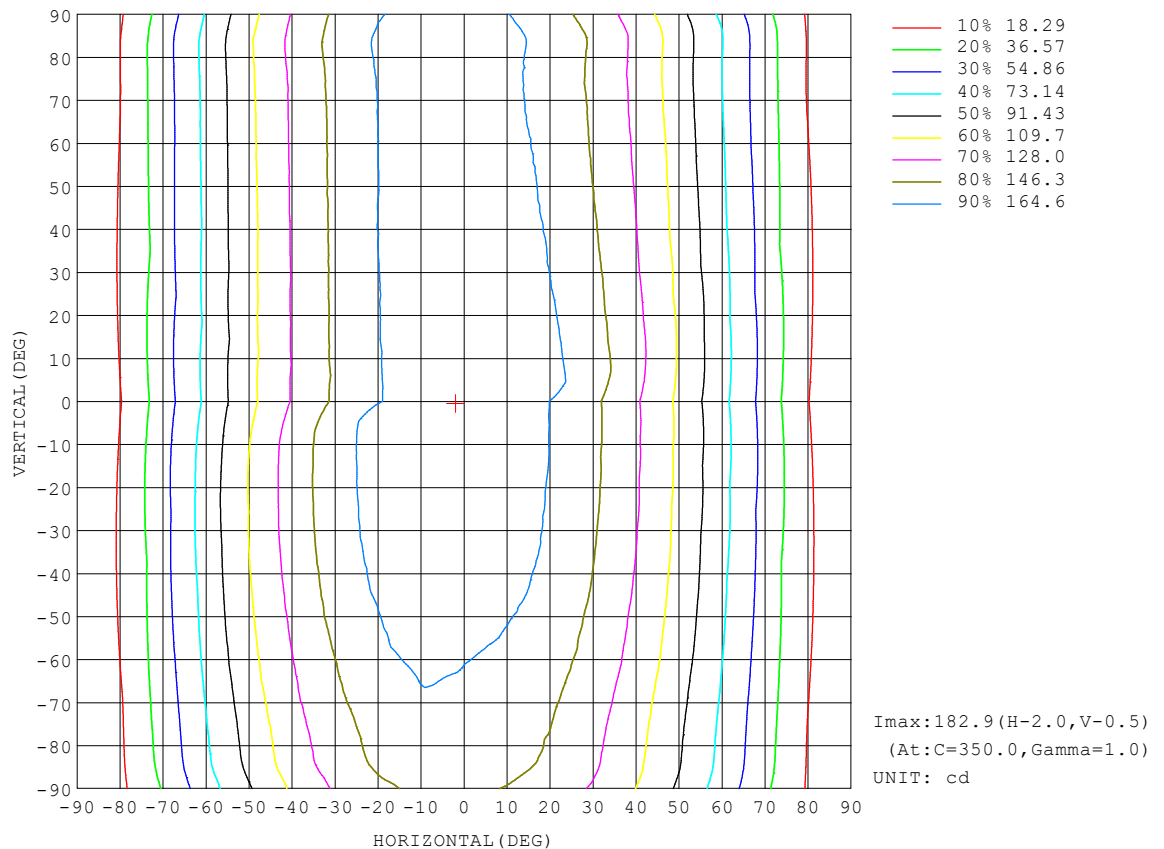
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	40	28	21	38	27	20	34	25	19	12
0.80	49	36	28	46	34	27	41	31	25	15
1.00	56	43	35	53	41	33	47	39	30	19
1.25	63	50	41	59	47	39	52	42	36	22
1.50	68	56	47	64	52	44	56	47	40	25
2.00	76	64	55	71	60	52	61	53	47	29
2.50	81	70	61	75	65	58	65	57	51	32
3.00	84	74	67	78	70	63	67	61	55	35
4.00	89	81	74	83	75	69	71	65	61	38
5.00	92	85	79	86	79	74	73	69	64	40
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Jason Huang
 Test Date:2023-04-13

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.404.7
 Humidity:65.0%
 Test Distance:13.486m [K=1.0000]
 Remarks: ---

ISOCANDELA DIAGRAM

Test:U:120.00V I:0.1678A P:19.75W PF:0.9808 Freq:60.00Hz Lamp Flux:1510.99x1 lm		
NAME: --	TYPE:--	SERIAL No.:FTS23041301L-02
SPEC.:RSKV3605L30D1 (C22001W-1)	DIM.: --	
MFR.:	SUR.:890mm	

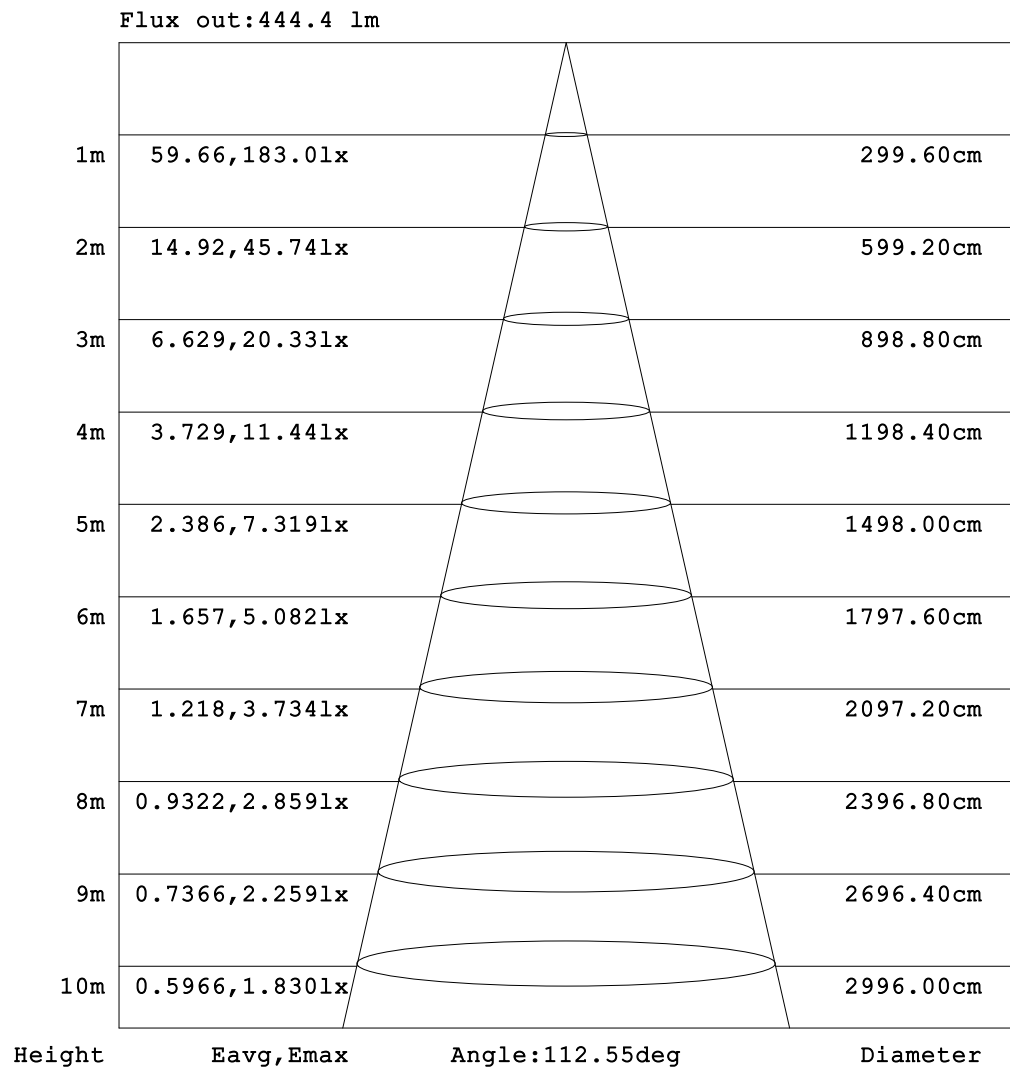


C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason Huang
Test Date:2023-04-13

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.404.7
Humidity:65.0%
Test Distance:13.486m [K=1.0000]
Remarks: ---

AAI Figure

Test:U:120.00V I:0.1678A P:19.75W PF:0.9808 Freq:60.00Hz Lamp Flux:1510.99x1 lm		
NAME: --	TYPE:--	SERIAL No.:FTS23041301L-02
SPEC.:RSKV3605L30D1 (C22001W-1)	DIM.: --	
MFR.:	SUR.:890mm	



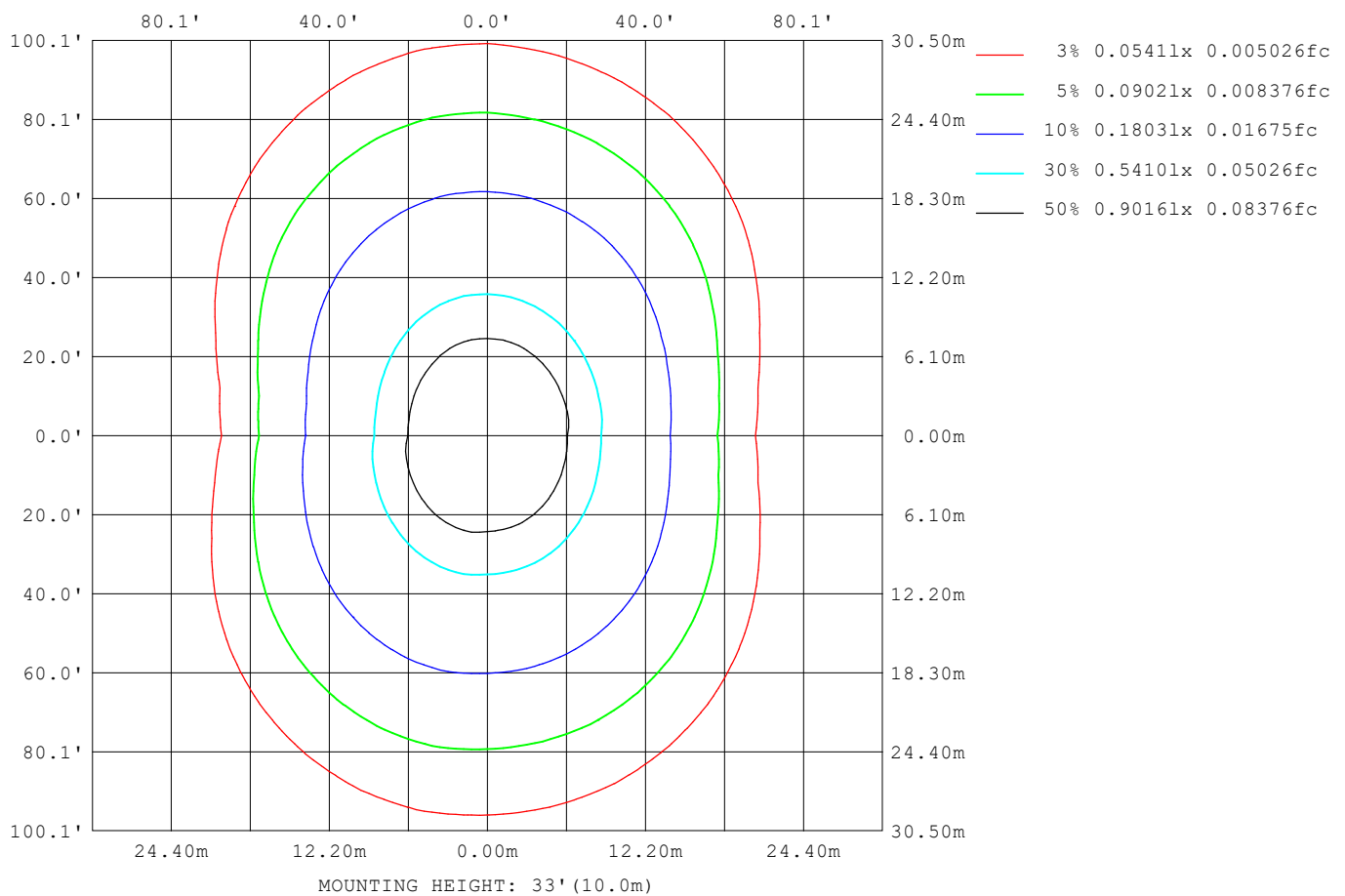
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Jason Huang
 Test Date:2023-04-13

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.404.7
 Humidity:65.0%
 Test Distance:13.486m [K=1.0000]
 Remarks: ---

ISOLUX DIAGRAM

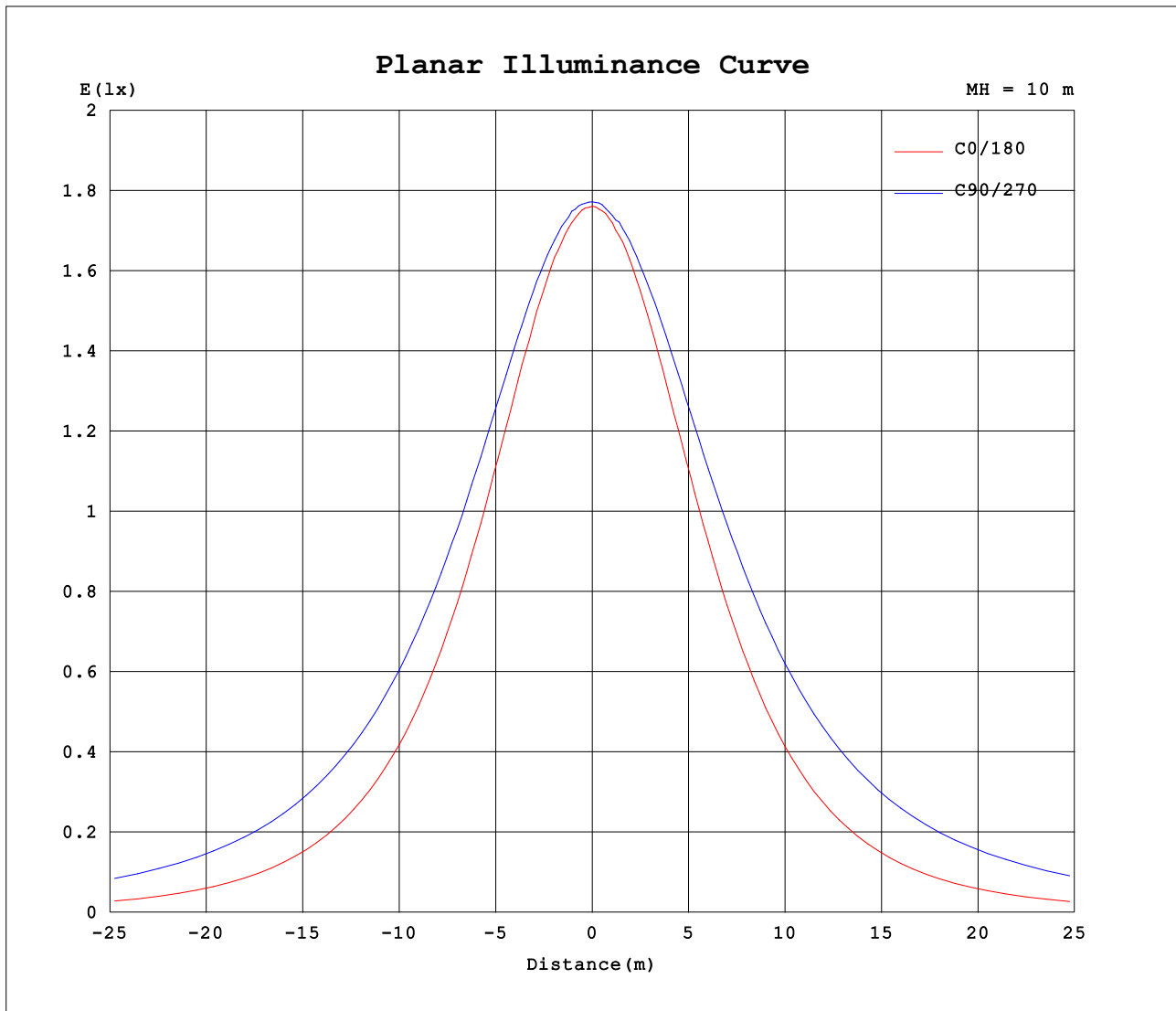
Test:U:120.00V I:0.1678A P:19.75W PF:0.9808 Freq:60.00Hz Lamp Flux:1510.99x1 lm		
NAME: --	TYPE:--	SERIAL No.:FTS23041301L-02
SPEC.:RSKV3605L30D1 (C22001W-1)	DIM.: --	
MFR.:	SUR.:890mm	



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason Huang
Test Date:2023-04-13

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.404.7
Humidity:65.0%
Test Distance:13.486m [K=1.0000]
Remarks: ---

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Jason Huang
Test Date: 2023-04-13

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000H_V1 SYSTEM V2.0.404.7
Humidity: 65.0%
Test Distance: 13.486m [K=1.0000]
Remarks: ---