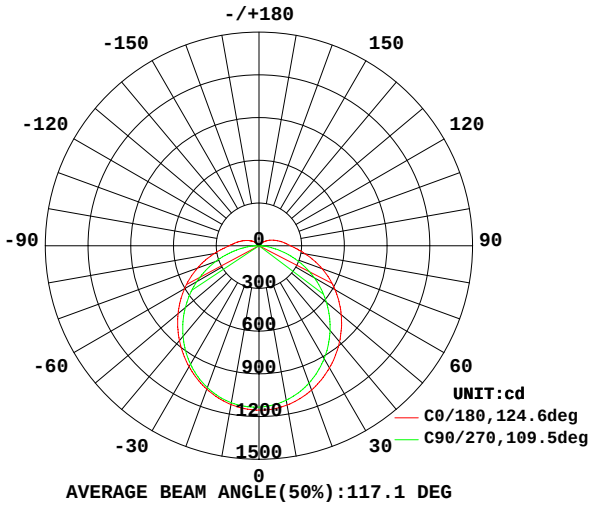
LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:229.9V I:0.1596A P:35.54W PF:0.9687 Lamp Flux:3895.75x1 lm		
NAME: VU446-4000K	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

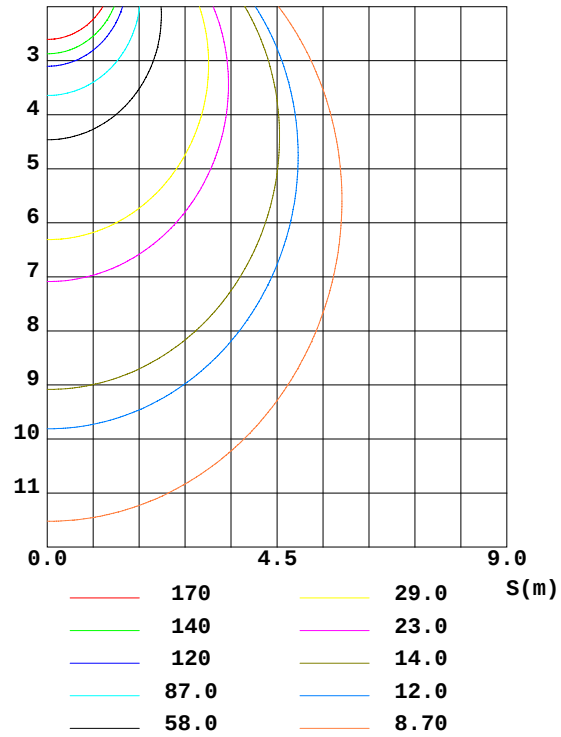
DATA OF LAMP		PHOTOMETRIC DATA Eff: 109.62 lm/W			
MODEL	VU446-4000K	Imax(cd)	1155	S/MH(C0/180)	1.28
NOMINAL POWER(W)	36	LOR(%)	100.0	S/MH(C90/270)	1.21
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	3895.7	η UP,DN(C0-180)	3.7,43.9
NOMINAL FLUX(lm)	3895.75	CIE CLASS	DIRECT	η UP,DN(C180-360)	4.3,48.1
LAMPS INSIDE	1	η up(%)	8.1	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	229.9	η down(%)	91.9	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE BEAM ANGLE(50%):117.1 DEG

C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:SHI
Test Date:2023-07-13

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.276
Humidity:65.0%
Test Distance:7.750m [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	1136	1123	1102	1081	1133	1120	1120	1131	0- 10	107.6	107.6	2.76,2.76
20	1079	1061	1027	998.5	1072	1057	1060	1092	10- 20	307.7	415.3	10.7,10.7
30	990.2	964.8	915.6	885.6	981.7	958.5	961.3	1013	20- 30	465.5	880.8	22.6,22.6
40	879.9	841.6	776.7	753.6	869.6	834.3	830.0	902.6	30- 40	562.6	1443	37.1,37.1
50	753.9	702.8	618.6	609.2	742.0	694.1	675.7	769.9	40- 50	591.6	2035	52.2,52.2
60	616.5	555.1	447.9	459.8	604.2	544.3	505.0	624.7	50- 60	554.7	2590	66.5,66.5
70	472.2	404.6	270.9	312.0	460.3	392.0	324.4	473.7	60- 70	461.8	3052	78.3,78.3
80	330.1	260.8	103.8	183.0	319.6	245.2	145.5	324.0	70- 80	330.8	3382	86.8,86.8
90	222.3	153.4	20.99	112.6	210.9	141.9	26.09	192.4	80- 90	199.5	3582	91.9,91.9
100	162.6	100.8	18.62	73.26	153.0	94.07	19.72	121.5	90-100	122.6	3705	95.1,95.1
110	114.6	66.11	16.03	44.33	108.3	59.93	17.15	75.87	100-110	80.60	3785	97.2,97.2
120	76.01	37.16	12.59	24.74	71.82	35.36	14.95	49.87	110-120	49.61	3835	98.4,98.4
130	45.34	19.96	11.29	13.08	43.37	19.07	13.15	28.66	120-130	28.19	3863	99.2,99.2
140	23.23	11.54	10.78	10.65	23.19	11.19	11.81	15.88	130-140	15.04	3878	99.5,99.5
150	11.48	9.911	10.59	11.10	12.30	11.32	10.99	10.60	140-150	8.015	3886	99.8,99.8
160	10.94	10.92	11.34	11.93	12.40	12.02	11.39	11.22	150-160	5.188	3891	99.9,99.9
170	11.90	11.80	12.11	12.55	12.99	12.64	12.10	11.83	160-170	3.362	3895	100,100
180	13.22	12.80	12.57	12.59	13.34	12.90	12.58	12.43	170-180	1.187	3896	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

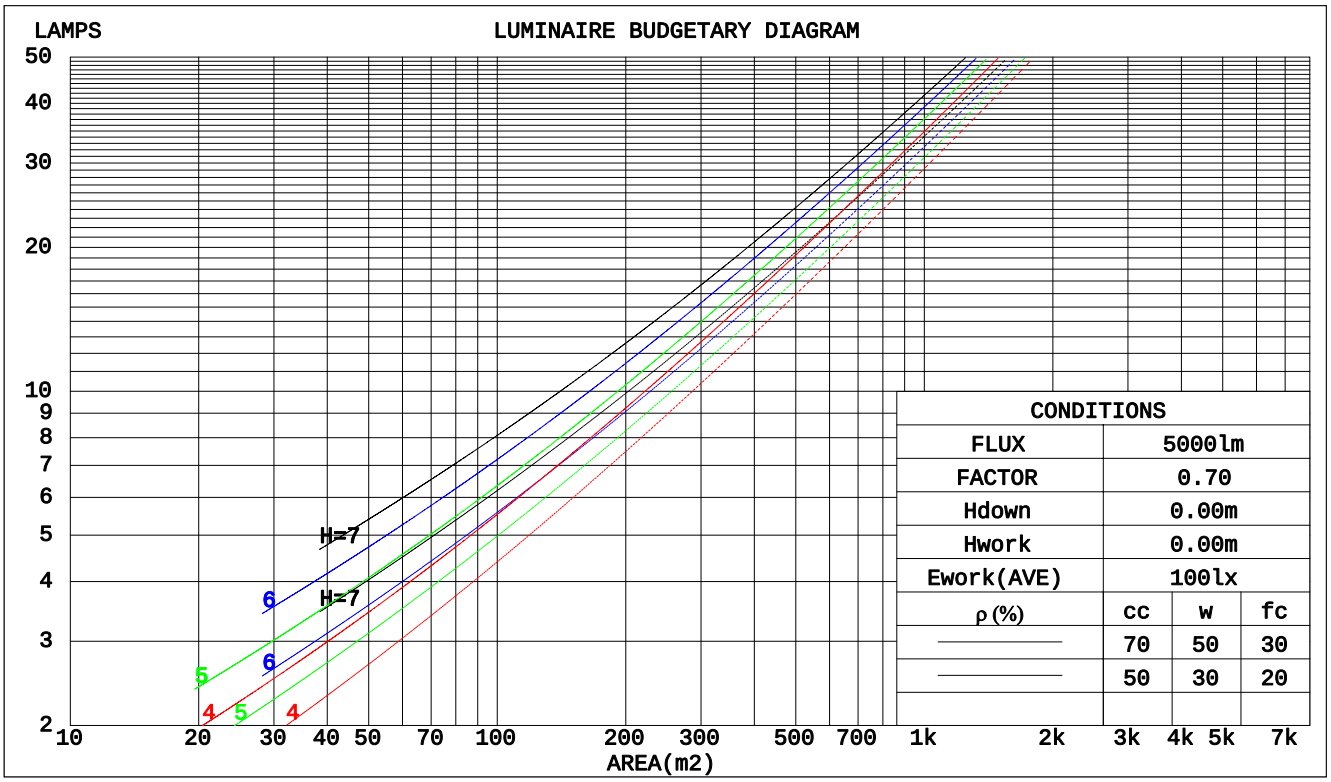
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:SHI
Test Date:2023-07-13

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.276
Humidity:65.0%
Test Distance:7.750m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:229.9V I:0.1596A P:35.54W PF:0.9687 Lamp Flux:3895.75x1 lm		
NAME: VU446-4000K	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

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	1.17	1.17	1.17	1.13	1.13	1.13	1.07	1.07	1.07	1.00	1.00	1.00	.95	.95	.95	.92
1.0	.00	.95	.90	.97	.92	.88	.91	.87	.84	.85	.83	.80	.81	.78	.76	.73
2.0	.86	.79	.72	.83	.77	.71	.79	.73	.68	.74	.69	.65	.70	.66	.63	.60
3.0	.75	.66	.59	.73	.65	.58	.69	.62	.56	.65	.59	.54	.61	.56	.52	.50
4.0	.66	.57	.50	.64	.56	.49	.61	.53	.48	.57	.51	.46	.54	.49	.45	.42
5.0	.59	.50	.43	.57	.49	.42	.54	.47	.41	.51	.45	.40	.49	.43	.39	.36
6.0	.53	.44	.37	.52	.43	.37	.49	.41	.36	.46	.40	.35	.44	.38	.34	.32
7.0	.48	.39	.33	.47	.38	.32	.44	.37	.32	.42	.36	.31	.40	.34	.30	.28
8.0	.44	.35	.29	.43	.34	.29	.41	.33	.28	.39	.32	.27	.37	.31	.27	.25
9.0	.40	.32	.26	.39	.31	.26	.37	.30	.25	.36	.29	.25	.34	.28	.24	.22
10.0	.37	.29	.24	.36	.28	.23	.35	.28	.23	.33	.27	.22	.32	.26	.22	.20



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:SHI
Test Date:2023-07-13

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.276
Humidity:65.0%
Test Distance:7.750m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:229.9V I:0.1596A P:35.54W PF:0.9687 Lamp Flux:3895.75x1 lm		
NAME: VU446-4000K	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

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						Wall Exitance Coeffcients(WEC)									
0.0																
1.0	.353	.201	.064	.343	.196	.062	.325	.186	.060	.308	.178	.057	.293	.170	.055	
2.0	.315	.173	.053	.307	.169	.052	.291	.162	.050	.276	.155	.048	.262	.148	.047	
3.0	.285	.152	.045	.277	.148	.045	.263	.142	.043	.249	.137	.042	.237	.131	.041	
4.0	.259	.135	.040	.252	.132	.039	.239	.127	.038	.227	.122	.037	.216	.117	.036	
5.0	.237	.121	.035	.231	.119	.035	.219	.114	.034	.208	.110	.033	.198	.106	.032	
6.0	.218	.109	.031	.213	.108	.031	.202	.104	.030	.192	.100	.029	.183	.096	.029	
7.0	.202	.100	.028	.197	.098	.028	.188	.095	.027	.179	.092	.027	.170	.088	.026	
8.0	.188	.092	.026	.184	.090	.026	.175	.087	.025	.167	.084	.024	.159	.082	.024	
9.0	.176	.085	.024	.172	.084	.023	.164	.081	.023	.156	.078	.022	.149	.076	.022	
10.0	.165	.079	.022	.161	.078	.022	.154	.075	.021	.147	.073	.021	.140	.071	.020	

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						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.252	.252	.252	.215	.215	.215	.147	.147	.147	.084	.084	.084	.027	.027	.027	
1.0	.245	.218	.193	.210	.187	.166	.143	.129	.115	.083	.074	.067	.026	.024	.022	
2.0	.238	.194	.157	.204	.167	.136	.140	.116	.095	.080	.067	.056	.026	.022	.018	
3.0	.230	.177	.135	.197	.153	.117	.135	.106	.082	.078	.062	.048	.025	.020	.016	
4.0	.222	.164	.120	.191	.142	.104	.131	.099	.073	.076	.058	.043	.024	.019	.014	
5.0	.215	.154	.109	.184	.133	.095	.127	.093	.067	.074	.055	.040	.024	.018	.013	
6.0	.207	.146	.102	.178	.126	.089	.123	.088	.063	.071	.052	.037	.023	.017	.012	
7.0	.200	.139	.096	.172	.121	.084	.119	.085	.059	.069	.050	.035	.022	.016	.012	
8.0	.194	.133	.092	.167	.116	.080	.115	.081	.057	.067	.048	.034	.022	.016	.011	
9.0	.187	.128	.089	.161	.112	.077	.112	.078	.055	.065	.046	.033	.021	.015	.011	
10.0	.182	.124	.086	.157	.108	.075	.109	.076	.053	.063	.045	.032	.021	.015	.011	

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:SHI
Test Date:2023-07-13

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.276
Humidity:65.0%
Test Distance:7.750m [K=1.0000]
Remarks:

Uncorrected UGR Table

Test:U:229.9V I:0.1596A P:35.54W PF:0.9687 Lamp Flux:3895.75x1 lm		
NAME: VU446-4000K	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

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	18.7	20.2	19.1	20.5	20.9	17.6	19.1	18.0	19.4	19.8
3H	20.9	22.2	21.3	22.6	23.0	19.1	20.4	19.5	20.8	21.2
4H	22.0	23.2	22.4	23.6	24.1	19.6	20.9	20.1	21.3	21.7
6H	23.1	24.3	23.5	24.7	25.2	20.0	21.2	20.5	21.6	22.1
8H	23.7	24.9	24.2	25.3	25.8	20.1	21.3	20.6	21.7	22.2
12H	24.4	25.5	24.9	26.0	26.4	20.2	21.3	20.6	21.7	22.2
4H 2H	19.3	20.6	19.7	21.0	21.4	18.5	19.8	18.9	20.2	20.6
3H	21.7	22.8	22.1	23.2	23.7	20.2	21.3	20.7	21.8	22.2
4H	22.9	24.0	23.4	24.4	24.9	20.9	22.0	21.4	22.4	22.9
6H	24.3	25.2	24.8	25.7	26.2	21.5	22.4	22.0	22.9	23.4
8H	25.0	25.9	25.5	26.4	26.9	21.7	22.5	22.2	23.0	23.6
12H	25.8	26.6	26.4	27.1	27.7	21.8	22.6	22.3	23.1	23.7
8H 4H	23.3	24.1	23.8	24.6	25.2	21.6	22.4	22.1	23.0	23.5
6H	24.9	25.6	25.4	26.1	26.7	22.4	23.2	23.0	23.7	24.3
8H	25.8	26.4	26.3	27.0	27.6	22.8	23.4	23.4	24.0	24.6
12H	26.8	27.4	27.4	27.9	28.6	23.1	23.6	23.7	24.2	24.9
12H 4H	23.3	24.1	23.8	24.6	25.2	21.7	22.5	22.3	23.1	23.6
6H	25.0	25.6	25.5	26.2	26.8	22.8	23.4	23.3	24.0	24.6
8H	26.0	26.5	26.6	27.1	27.8	23.2	23.8	23.8	24.4	25.0
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.4				

CIE Pub.117 Corrected 3896 lm Total Lamp Luminous Flux.(8log(F/F0) = 4.7)

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:SHI
Test Date:2023-07-13

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.276
Humidity:65.0%
Test Distance:7.750m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:229.9V I:0.1596A P:35.54W PF:0.9687 Lamp Flux:3895.75x1 lm		
NAME: VU446-4000K	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

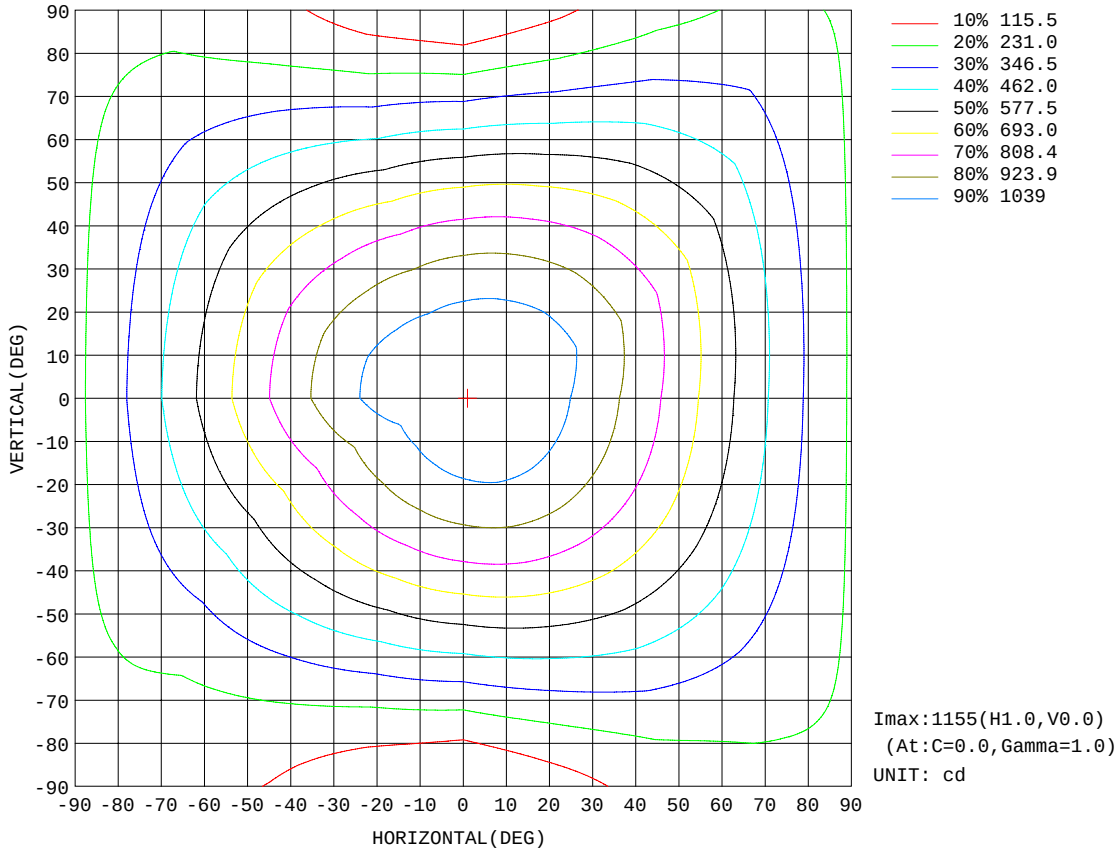
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	53	41	34	52	41	34	51	40	33	27
0.80	62	50	42	61	50	42	59	49	42	34
1.00	70	58	51	69	58	50	66	59	49	42
1.25	77	66	58	76	65	57	72	63	56	48
1.50	82	71	63	80	70	63	77	68	61	53
2.00	89	80	72	87	78	71	83	75	69	60
2.50	94	85	78	91	83	76	86	79	74	64
3.00	97	89	82	94	87	81	89	83	78	67
4.00	102	95	89	99	92	87	93	88	84	72
5.00	104	98	93	101	96	91	95	91	87	75
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004				Suspended					SHRNOM = 1.25	

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:SHI
Test Date:2023-07-13

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.276
Humidity:65.0%
Test Distance:7.750m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:229.9V I:0.1596A P:35.54W PF:0.9687 Lamp Flux:3895.75x1 lm		
NAME: VU446-4000K	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:



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Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.276
Humidity:65.0%
Test Distance:7.750m [K=1.0000]
Remarks:

AAI Figure

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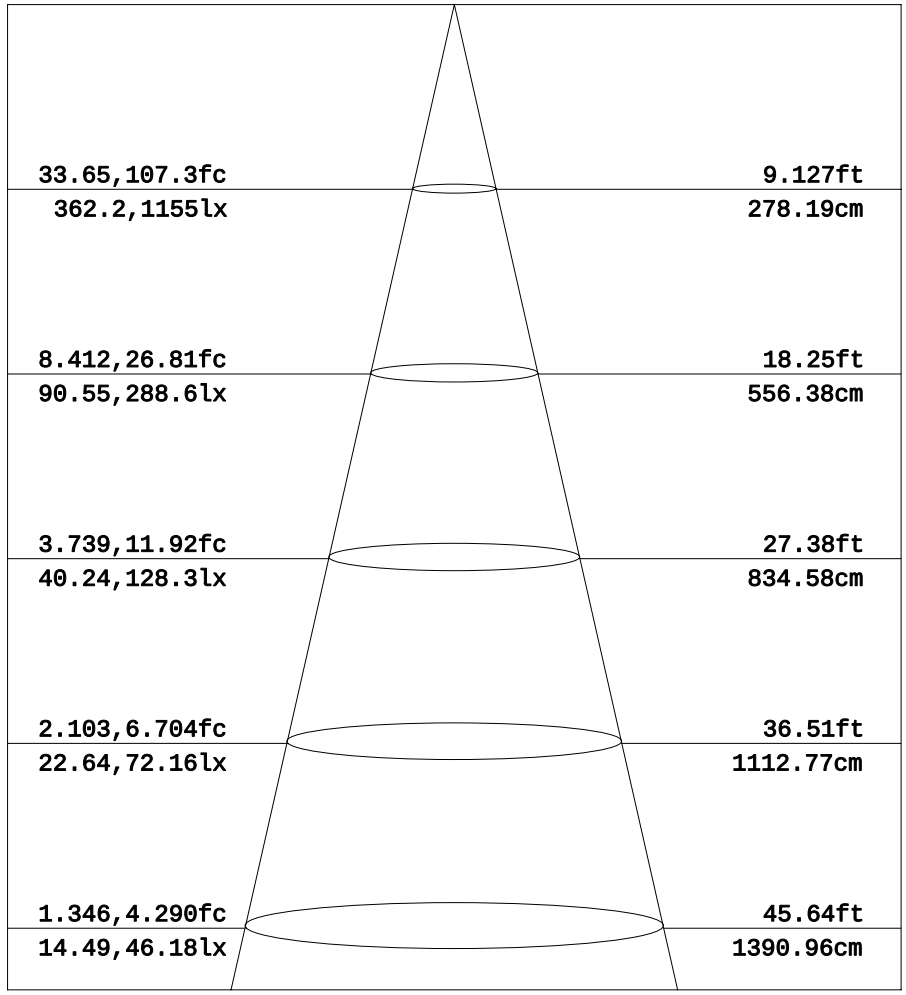
NAME: VU446-4000K	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

Flux out:2321 lm



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

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C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
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γ Interval: 1.0DEG
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Humidity:65.0%
Test Distance:7.750m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:229.9V I:0.1596A P:35.54W PF:0.9687 Lamp Flux:3895.75x1 lm		
NAME: VU446-4000K	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
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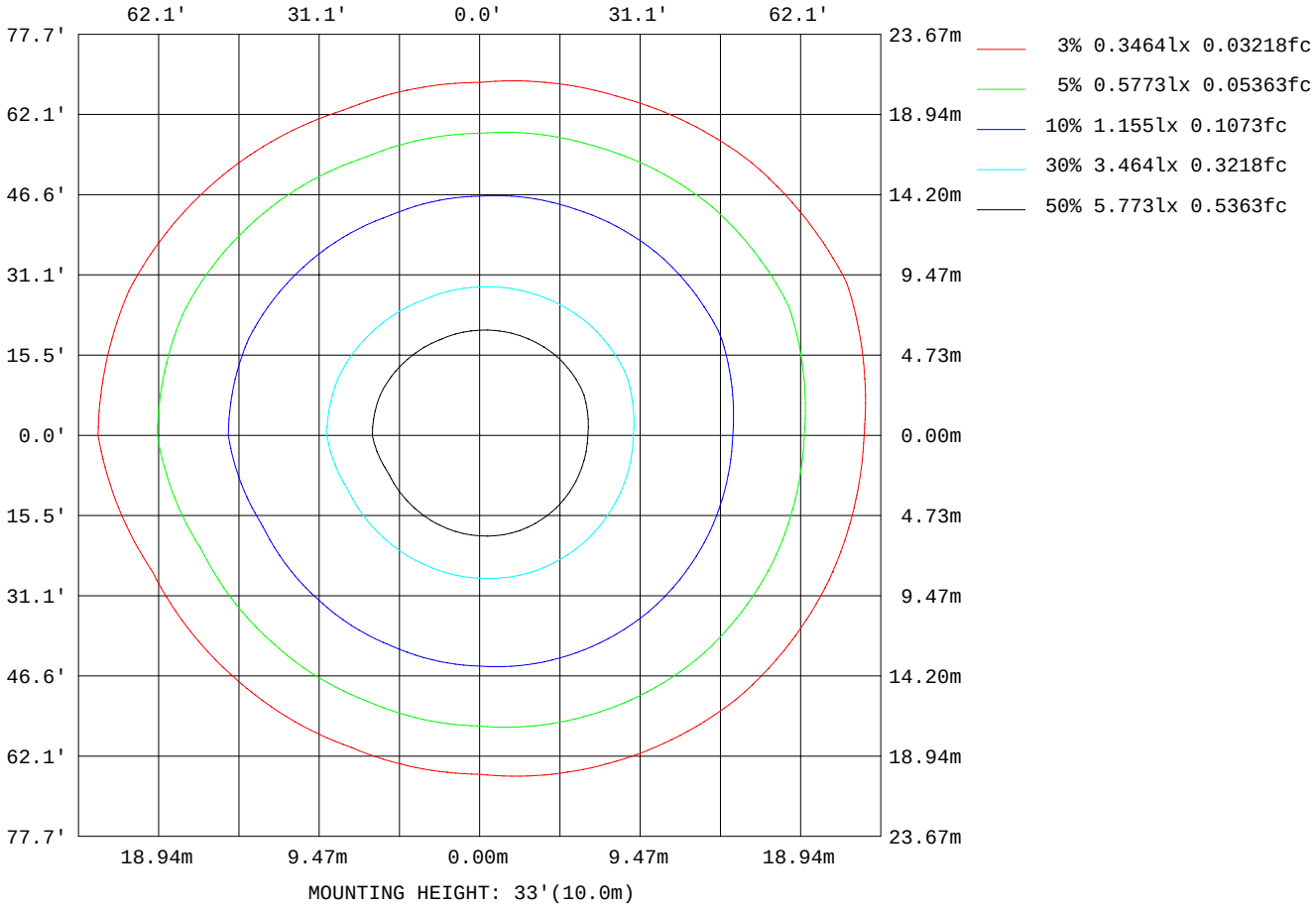

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Humidity:65.0%
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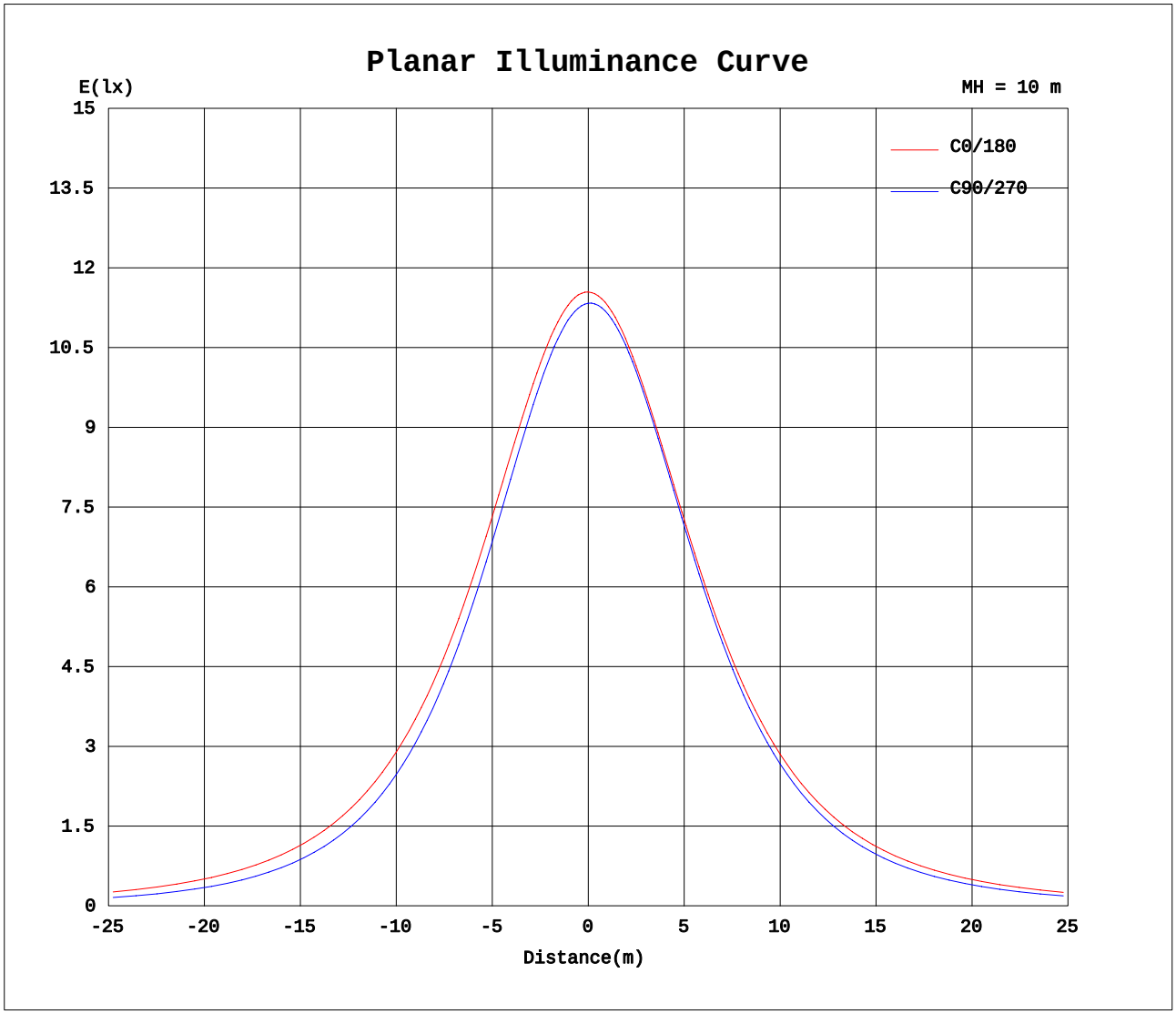
Remarks:

Planar Illuminance Curve



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Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.276
Humidity:65.0%
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Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:229.9V I:0.1596A P:35.54W PF:0.9687 Lamp Flux:3895.75x1 lm		
NAME: VU446-4000K	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

Table--1 UNIT: cd

γ (DEG) \ C(DEG)	0	23	45	68	90	113	135	158	180	203	225	248	270	293	315	338			
0	1155	1152	1143	1137	1133	1130	1127	1129	1155	1152	1143	1137	1133	1130	1127	1129			
5	1151	1147	1138	1131	1123	1115	1109	1110	1149	1147	1137	1132	1132	1133	1134	1137			
10	1136	1131	1123	1114	1102	1090	1081	1082	1133	1132	1120	1115	1120	1125	1131	1134			
15	1112	1105	1097	1086	1069	1054	1044	1046	1107	1107	1093	1087	1096	1105	1117	1122			
20	1079	1070	1061	1048	1027	1009	998	1002	1072	1073	1057	1049	1060	1075	1092	1099			
25	1038	1028	1017	1000	975	955	945	951	1030	1031	1012	1002	1015	1035	1057	1068			
30	990	978	965	945	916	894	886	896	982	982	959	946	961	985	1013	1027			
35	937	923	906	882	849	827	822	836	928	927	899	883	899	928	961	980			
40	880	863	842	812	777	754	754	772	870	868	834	813	830	862	903	926			
45	819	799	774	739	699	678	682	706	807	805	766	739	755	792	838	868			
50	754	732	703	661	619	599	609	637	742	738	694	660	676	715	770	806			
55	686	663	630	581	535	519	535	567	674	668	620	580	592	636	698	740			
60	616	591	555	499	448	438	460	495	604	597	544	497	505	554	625	672			
65	545	519	480	418	360	357	385	424	533	524	468	414	416	470	549	602			
70	472	446	405	336	271	276	312	353	460	450	392	331	324	386	474	530			
75	400	374	331	256	184	200	243	286	389	377	317	251	232	304	398	457			
80	330	305	261	184	104	134	183	226	320	308	245	177	146	226	324	385			
85	269	243	199	121	42.5	83.8	140	183	257	245	184	113	71.2	155	253	315			
90	222	199	153	79.0	21.0	58.6	113	155	211	198	142	73.3	26.1	98.8	192	253			
95	190	169	122	59.1	19.8	42.9	91.4	131	179	166	115	53.7	21.1	68.3	148	205			
100	163	143	101	44.8	18.6	31.4	73.3	109	153	140	94.1	39.6	19.7	48.3	121	172			
105	137	120	82.0	34.1	17.3	23.5	57.6	89.7	130	117	75.6	29.6	18.4	37.9	97.4	144			
110	115	98.9	66.1	26.6	16.0	17.9	44.3	72.4	108	96.6	59.9	22.3	17.1	31.1	75.9	119			
115	94.3	77.4	50.8	20.3	14.5	14.1	33.5	57.1	89.1	78.5	46.4	17.4	16.0	24.4	60.7	97.7			
120	76.0	60.0	37.2	15.8	12.6	12.5	24.7	43.9	71.8	62.3	35.4	14.4	15.0	19.1	49.9	78.2			
125	59.7	48.0	27.4	12.8	11.7	11.8	17.9	32.8	56.5	48.5	26.3	13.4	14.0	15.4	38.6	61.3			
130	45.3	37.2	20.0	11.0	11.3	11.3	13.1	23.8	43.4	36.7	19.1	12.8	13.1	13.0	28.7	49.7			
135	31.7	27.1	15.0	10.4	11.0	11.1	10.8	16.9	32.2	27.0	14.0	12.2	12.5	11.8	21.4	39.7			
140	23.2	18.1	11.5	10.1	10.8	10.9	10.6	12.2	23.2	19.4	11.2	11.4	11.8	11.2	15.9	29.5			
145	16.1	12.8	9.67	10.00	10.6	10.9	10.7	11.1	16.4	14.0	11.0	11.2	11.2	10.7	12.3	20.5			
150	11.5	10.2	9.91	10.0	10.6	11.0	11.1	11.4	12.3	11.7	11.3	11.2	11.0	10.6	10.6	14.5			
155	10.6	10.5	10.4	10.4	10.8	11.4	11.5	11.7	12.2	11.9	11.7	11.5	11.0	10.6	10.9	11.5			
160	10.9	11.0	10.9	11.0	11.3	11.9	11.9	12.0	12.4	12.1	12.0	11.9	11.4	11.0	11.2	11.4			
165	11.4	11.4	11.3	11.5	11.8	12.2	12.3	12.4	12.7	12.4	12.4	12.2	11.8	11.4	11.6	11.7			
170	11.9	11.8	11.8	11.9	12.1	12.5	12.6	12.7	13.0	12.7	12.6	12.5	12.1	11.8	11.8	12.0			
175	12.5	12.3	12.3	12.4	12.4	12.6	12.7	12.9	13.2	12.9	12.9	12.7	12.4	12.2	12.1	12.2			
180	13.2	13.0	12.8	12.8	12.6	12.6	12.6	12.7	13.3	13.0	12.9	12.7	12.6	12.5	12.4	12.6			

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:SHI
Test Date:2023-07-13

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.276
Humidity:65.0%
Test Distance:7.750m [K=1.0000]
Remarks: