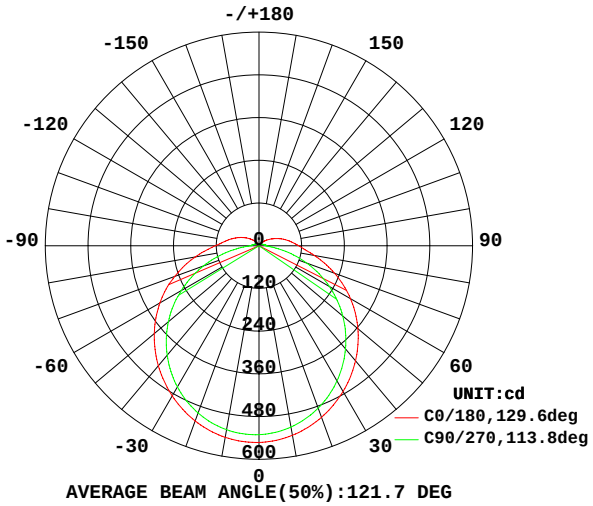
LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:229.9V I:0.0817A P:18.21W PF:0.9691 Lamp Flux:1976.59x1 lm		
NAME: VU246-6500K	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

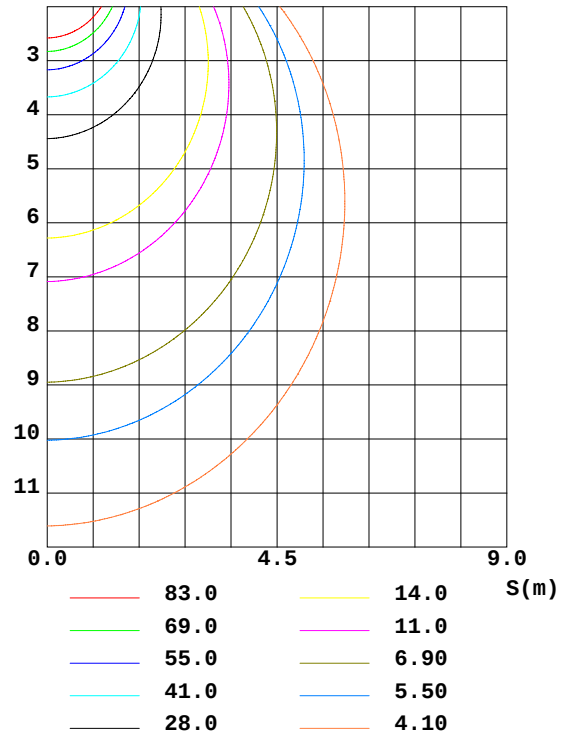
DATA OF LAMP		PHOTOMETRIC DATA Eff: 108.57 lm/W			
MODEL	VU246-6500K	Imax(cd)	552.6	S/MH(C0/180)	1.28
NOMINAL POWER(W)	18	LOR(%)	100.0	S/MH(C90/270)	1.24
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	1976.6	η UP,DN(C0-180)	4.1,42.1
NOMINAL FLUX(lm)	1976.59	CIE CLASS	DIRECT	η UP,DN(C180-360)	5.5,48.2
LAMPS INSIDE	1	η up(%)	9.7	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	229.9	η down(%)	90.3	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE BEAM ANGLE(50%):121.7 DEG

C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:SHI
Test Date:2023-07-12

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	540.7	539.5	517.2	496.8	546.4	528.6	524.8	535.3	0- 10	50.75	50.75	2.57,2.57
20	512.9	517.9	485.7	454.7	523.8	497.1	500.1	527.8	10- 20	145.7	196.5	9.94,9.94
30	472.5	479.9	438.3	401.6	487.2	451.5	458.1	502.6	20- 30	222.5	418.9	21.2,21.2
40	421.9	429.1	378.1	340.0	439.9	394.8	401.2	461.6	30- 40	272.4	691.4	35,35
50	362.8	368.8	307.3	272.6	384.1	330.0	332.3	407.7	40- 50	291.1	982.5	49.7,49.7
60	296.8	301.9	228.1	201.3	321.4	258.0	251.9	344.8	50- 60	277.9	1260	63.8,63.8
70	226.1	230.9	143.3	131.1	251.6	185.0	166.0	276.0	60- 70	236.2	1497	75.7,75.7
80	158.0	159.9	62.12	79.07	182.0	116.7	80.19	202.7	70- 80	175.1	1672	84.6,84.6
90	111.6	99.06	19.52	53.53	122.8	74.28	23.19	133.6	80- 90	113.6	1785	90.3,90.3
100	83.95	67.46	16.33	34.65	90.20	50.96	18.63	83.27	90-100	73.64	1859	94,94
110	59.56	45.61	11.77	20.52	66.21	32.76	12.92	54.96	100-110	49.05	1908	96.5,96.5
120	38.02	30.32	9.121	10.57	45.53	19.08	10.49	37.97	110-120	30.96	1939	98.1,98.1
130	21.72	17.34	8.022	5.988	28.42	9.766	8.177	27.46	120-130	17.98	1957	99,99
140	10.35	8.837	6.845	5.370	15.38	5.619	7.081	15.83	130-140	9.638	1967	99.5,99.5
150	5.763	5.602	5.974	5.342	7.272	5.303	6.228	8.229	140-150	4.937	1971	99.7,99.7
160	5.987	5.857	5.808	5.754	5.692	5.674	5.915	6.108	150-160	2.802	1974	99.9,99.9
170	6.201	6.089	6.152	6.138	6.040	6.000	6.264	6.326	160-170	1.700	1976	100,100
180	6.273	6.273	6.465	6.483	6.259	6.259	6.474	6.487	170-180	0.5962	1977	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

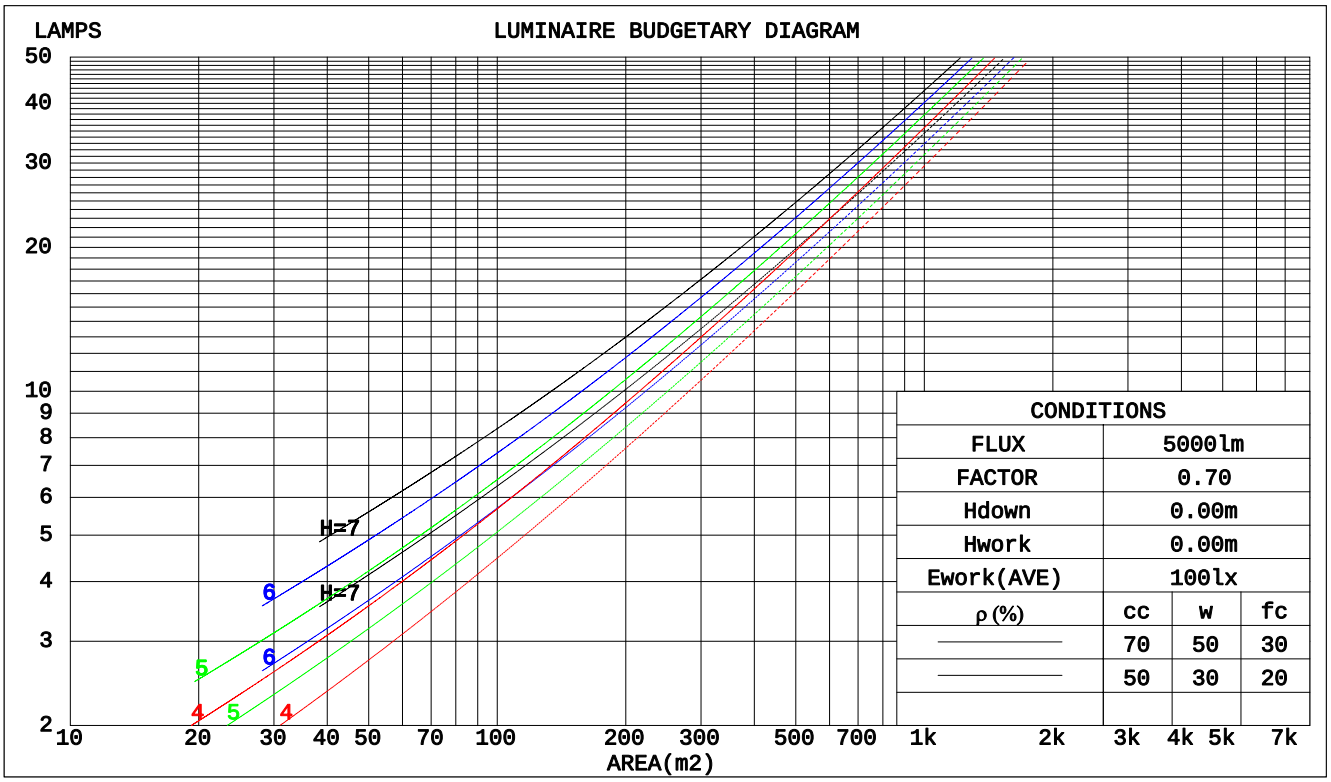
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:SHI
Test Date:2023-07-12

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:0.0817A P:18.21W PF:0.9691 Lamp Flux:1976.59x1 lm		
NAME: VU224-6500K	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	1.06	1.06	1.06	.99	.99	.99	.93	.93	.93	.90
1.0	.99	.94	.89	.96	.91	.87	.89	.86	.82	.84	.81	.78	.79	.76	.74	.71
2.0	.85	.77	.71	.82	.75	.69	.77	.71	.66	.72	.68	.63	.68	.64	.61	.58
3.0	.74	.65	.58	.72	.64	.57	.67	.60	.55	.63	.57	.53	.59	.55	.51	.48
4.0	.65	.56	.49	.63	.55	.48	.59	.52	.46	.56	.50	.45	.53	.47	.43	.40
5.0	.58	.49	.42	.56	.48	.41	.53	.45	.40	.50	.43	.38	.47	.42	.37	.35
6.0	.52	.43	.36	.51	.42	.36	.48	.40	.34	.45	.38	.33	.43	.37	.32	.30
7.0	.47	.38	.32	.46	.37	.31	.43	.36	.30	.41	.34	.29	.39	.33	.29	.26
8.0	.43	.34	.28	.42	.33	.28	.40	.32	.27	.38	.31	.26	.36	.30	.26	.23
9.0	.39	.31	.25	.38	.30	.25	.36	.29	.24	.35	.28	.24	.33	.27	.23	.21
10.0	.36	.28	.23	.35	.28	.22	.34	.27	.22	.32	.26	.21	.31	.25	.21	.19



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:SHI
Test Date:2023-07-12

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:0.0817A P:18.21W PF:0.9691 Lamp Flux:1976.59x1 lm		
NAME: VU224-6500K	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	.362	.206	.065	.352	.201	.064	.333	.191	.061	.316	.182	.058	.300	.174	.056	
2.0	.321	.176	.054	.312	.172	.053	.295	.164	.051	.279	.157	.049	.265	.150	.047	
3.0	.289	.154	.046	.281	.150	.045	.265	.144	.044	.251	.138	.042	.238	.132	.041	
4.0	.262	.136	.040	.255	.133	.039	.241	.128	.038	.228	.123	.037	.216	.118	.036	
5.0	.239	.122	.035	.233	.120	.035	.220	.115	.034	.209	.110	.033	.198	.106	.032	
6.0	.220	.110	.032	.214	.108	.031	.203	.104	.030	.193	.100	.029	.183	.096	.029	
7.0	.204	.101	.029	.198	.099	.028	.188	.095	.027	.179	.092	.027	.170	.088	.026	
8.0	.189	.092	.026	.184	.091	.026	.175	.087	.025	.166	.084	.024	.158	.081	.024	
9.0	.177	.085	.024	.172	.084	.024	.164	.081	.023	.156	.078	.022	.148	.075	.022	
10.0	.166	.079	.022	.162	.078	.022	.154	.075	.021	.146	.073	.021	.139	.070	.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	.264	.264	.264	.226	.226	.226	.154	.154	.154	.089	.089	.089	.028	.028	.028	
1.0	.258	.230	.205	.221	.197	.176	.151	.136	.122	.087	.079	.071	.028	.025	.023	
2.0	.251	.207	.169	.215	.178	.146	.147	.123	.102	.085	.072	.060	.027	.023	.019	
3.0	.243	.190	.147	.209	.164	.127	.143	.114	.089	.083	.066	.053	.027	.022	.017	
4.0	.236	.177	.132	.202	.153	.115	.139	.106	.081	.080	.062	.048	.026	.020	.016	
5.0	.228	.167	.122	.196	.144	.106	.135	.101	.075	.078	.059	.044	.025	.019	.015	
6.0	.221	.159	.114	.190	.137	.100	.131	.096	.070	.076	.057	.042	.024	.018	.014	
7.0	.214	.152	.109	.184	.132	.095	.127	.092	.067	.074	.054	.040	.024	.018	.013	
8.0	.207	.146	.105	.178	.127	.091	.123	.089	.065	.072	.053	.039	.023	.017	.013	
9.0	.201	.141	.101	.173	.123	.088	.120	.086	.063	.070	.051	.037	.023	.017	.012	
10.0	.195	.137	.099	.168	.119	.086	.116	.084	.061	.068	.050	.037	.022	.016	.012	

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:SHI
Test Date:2023-07-12

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:0.0817A P:18.21W PF:0.9691 Lamp Flux:1976.59x1 lm		
NAME: VU224-6500K	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	18.6	20.0	19.0	20.4	20.8	17.7	19.2	18.1	19.6	20.0
3H	20.7	22.0	21.1	22.4	22.9	19.3	20.7	19.8	21.1	21.5
4H	21.7	23.0	22.2	23.4	23.9	20.0	21.2	20.4	21.7	22.1
6H	22.8	24.0	23.3	24.5	25.0	20.5	21.7	20.9	22.1	22.6
8H	23.4	24.6	23.9	25.1	25.5	20.6	21.8	21.1	22.2	22.7
12H	24.1	25.2	24.6	25.7	26.2	20.7	21.9	21.2	22.3	22.8
4H 2H	19.3	20.6	19.7	21.0	21.5	18.7	20.0	19.1	20.4	20.9
3H	21.6	22.7	22.1	23.2	23.7	20.6	21.7	21.1	22.2	22.7
4H	22.9	23.9	23.4	24.4	24.9	21.4	22.4	21.9	22.9	23.5
6H	24.2	25.1	24.7	25.6	26.2	22.1	23.0	22.7	23.6	24.1
8H	24.9	25.7	25.4	26.3	26.8	22.4	23.2	22.9	23.8	24.4
12H	25.6	26.4	26.2	27.0	27.6	22.6	23.4	23.2	23.9	24.5
8H 4H	23.3	24.2	23.9	24.7	25.3	22.1	23.0	22.7	23.5	24.1
6H	24.9	25.6	25.5	26.2	26.8	23.2	23.9	23.8	24.5	25.1
8H	25.8	26.4	26.4	27.0	27.7	23.7	24.3	24.3	24.9	25.6
12H	26.8	27.4	27.4	28.0	28.7	24.1	24.6	24.7	25.3	25.9
12H 4H	23.4	24.2	23.9	24.7	25.3	22.3	23.1	22.9	23.7	24.3
6H	25.1	25.7	25.7	26.3	27.0	23.5	24.2	24.1	24.8	25.4
8H	26.1	26.6	26.7	27.2	27.9	24.2	24.7	24.8	25.3	26.0
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 / - 0.4				
2.0H	+ 0.2 / - 0.4					+ 0.2 / - 0.5				

CIE Pub.117 Corrected 1977 lm Total Lamp Luminous Flux.(8log(F/F0) = 2.4)

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:SHI
Test Date:2023-07-12

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:0.0817A P:18.21W PF:0.9691 Lamp Flux:1976.59x1 lm		
NAME: VU224-6500K	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

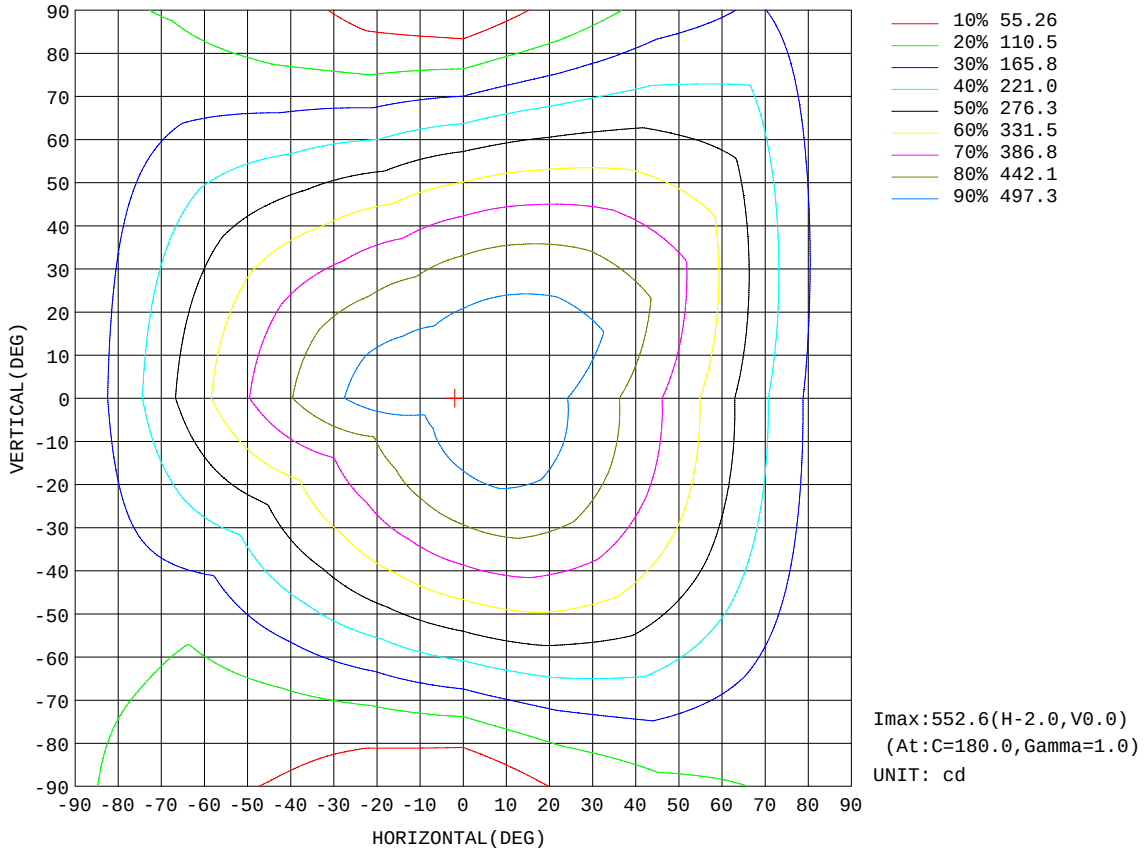
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	52	39	32	51	39	32	49	38	32	25
0.80	61	49	41	60	48	40	58	47	40	32
1.00	69	57	49	68	56	48	65	57	48	40
1.25	76	64	56	74	63	56	71	61	54	46
1.50	81	70	62	79	68	61	75	66	59	50
2.00	88	78	70	86	76	69	81	73	67	57
2.50	93	83	76	90	81	75	85	78	72	61
3.00	96	88	81	93	86	79	88	82	76	65
4.00	101	93	87	97	91	86	92	86	82	70
5.00	103	97	92	100	95	90	94	89	86	73
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:2023-07-12

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:0.0817A P:18.21W PF:0.9691 Lamp Flux:1976.59x1 lm		
NAME: VU224-6500K	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:



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Remarks:

AAI Figure

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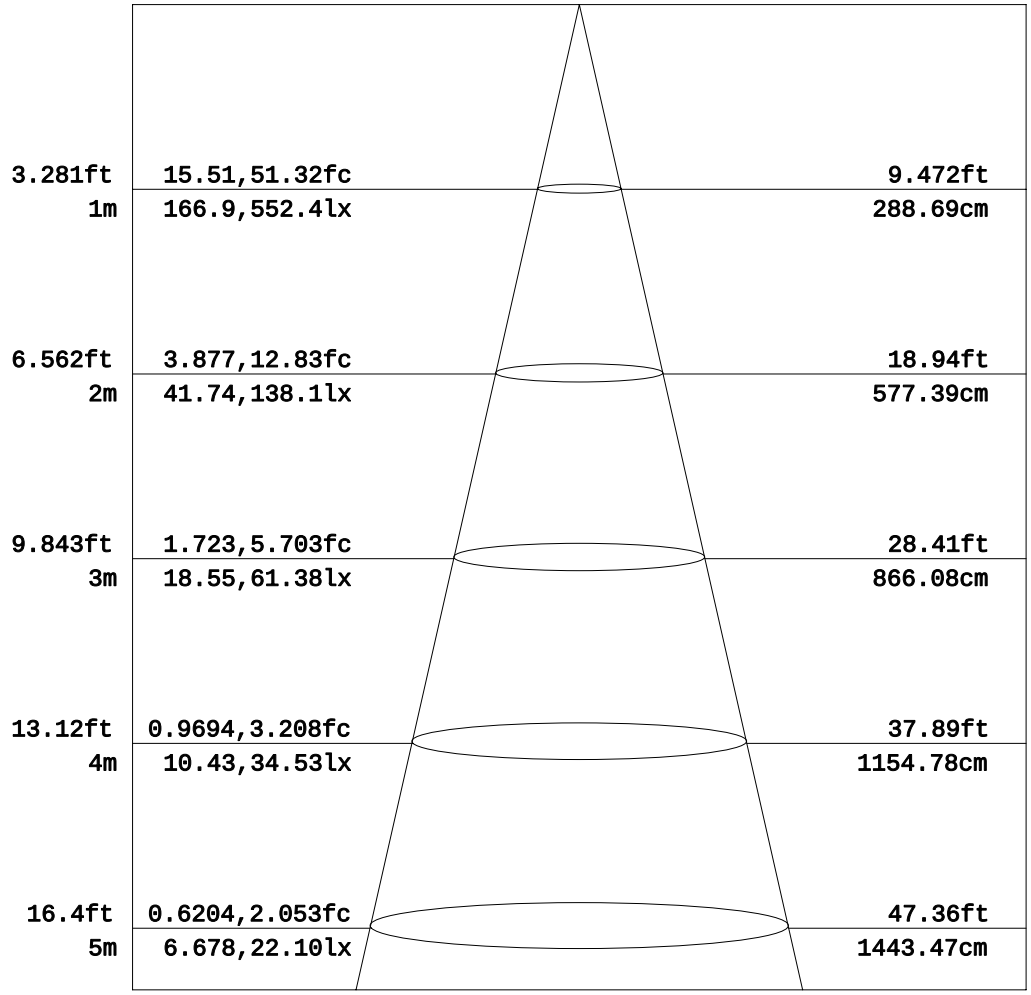
NAME: VU224-6500K	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

Flux out:1153 lm



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

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:SHI
Test Date:2023-07-12

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
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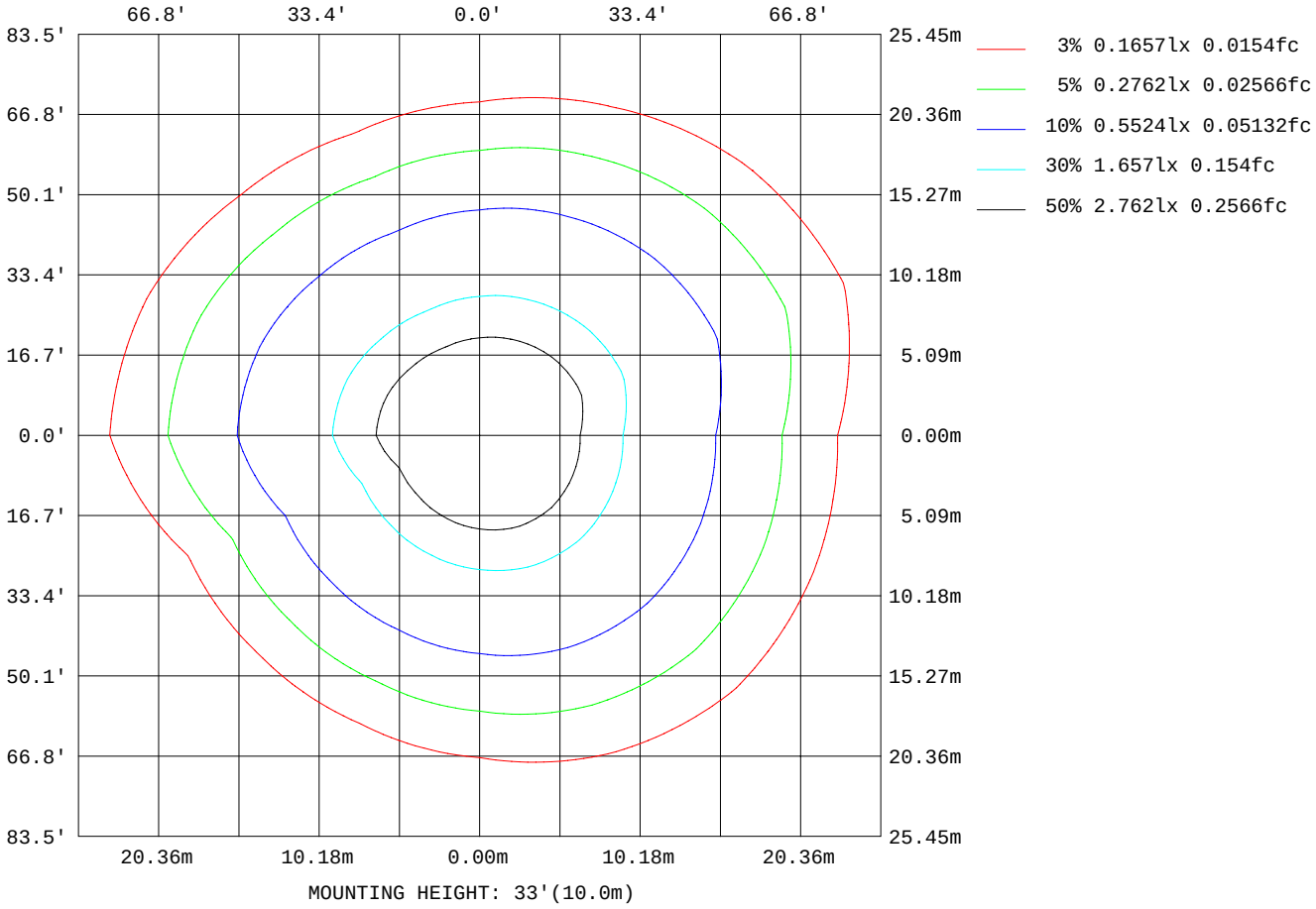
Humidity:65.0%
Test Distance:7.750m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:229.9V I:0.0817A P:18.21W PF:0.9691 Lamp Flux:1976.59x1 lm		
NAME: VU224-6500K	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%
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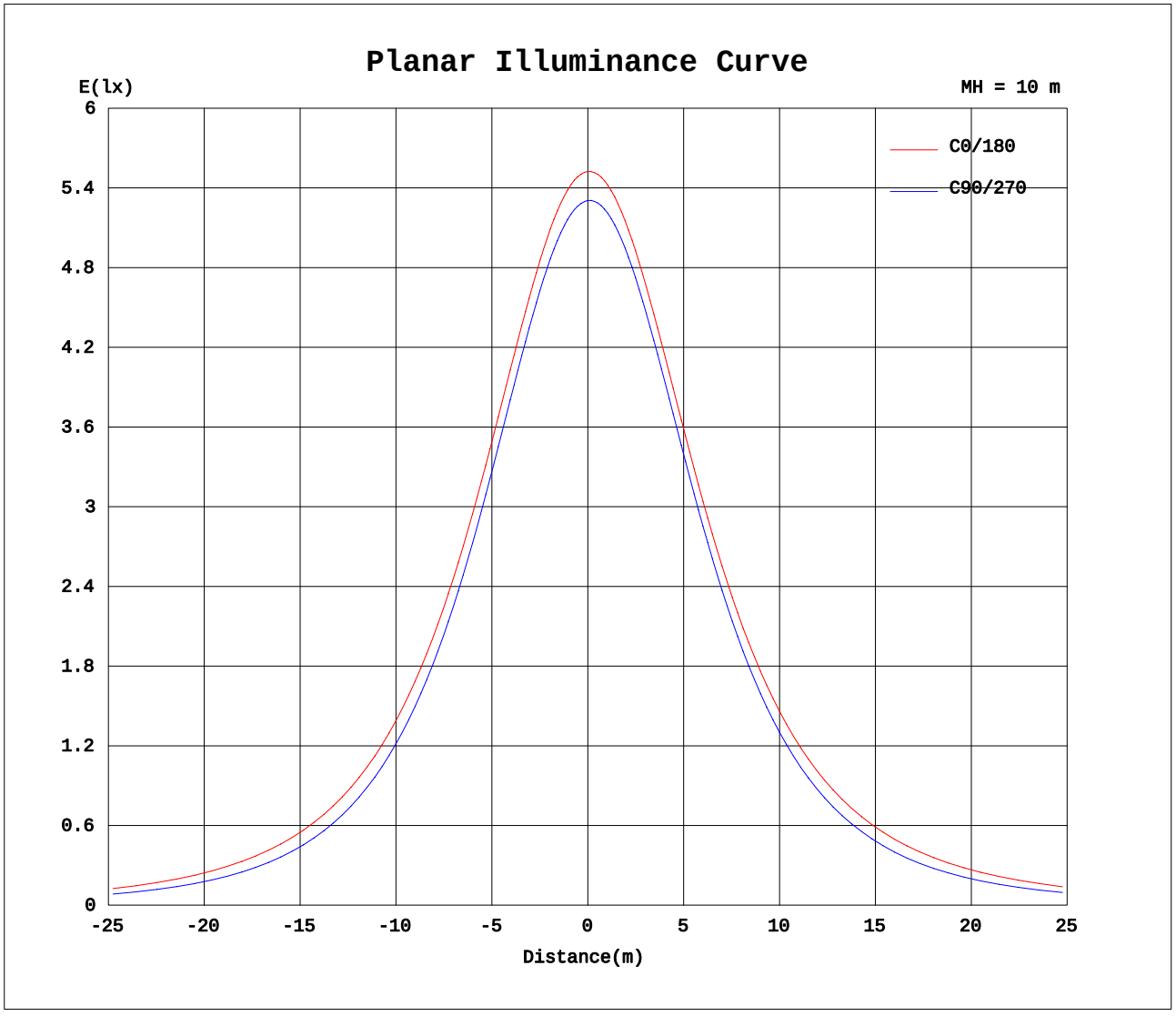
Remarks:

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:0.0817A P:18.21W PF:0.9691 Lamp Flux:1976.59x1 lm		
NAME: VU224-6500K	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	552	550	543	535	531	527	525	526	552	550	543	535	531	527	525	526			
5	549	548	544	535	526	519	513	513	552	547	538	530	530	531	532	535			
10	541	541	540	530	517	506	497	496	546	540	529	521	525	530	535	540			
15	529	531	531	520	503	489	477	476	537	529	515	508	515	524	534	541			
20	513	517	518	506	486	468	455	454	524	514	497	490	500	514	528	537			
25	494	499	501	488	464	444	429	429	507	496	476	468	481	499	517	528			
30	473	477	480	466	438	416	402	402	487	474	451	442	458	480	503	516			
35	448	454	456	440	410	386	372	374	465	450	424	414	431	457	484	500			
40	422	428	429	411	378	353	340	343	440	424	395	382	401	430	462	480			
45	393	399	400	379	344	318	307	311	413	395	363	348	368	400	436	458			
50	363	369	369	346	307	282	273	278	384	365	330	313	332	368	408	433			
55	331	337	336	309	269	243	237	243	354	333	295	275	294	332	377	406			
60	297	304	302	271	228	205	201	208	321	300	258	236	252	295	345	376			
65	262	269	267	232	186	167	166	175	288	266	222	197	210	256	311	345			
70	226	233	231	194	143	129	131	143	252	231	185	157	166	216	276	313			
75	191	197	195	155	101	94.1	101	115	217	195	149	118	122	176	239	278			
80	158	163	160	119	62.1	63.9	79.1	95.6	182	161	117	83.8	80.2	137	203	243			
85	130	133	126	86.0	31.6	44.1	64.9	81.9	150	130	90.8	57.4	44.3	101	167	208			
90	112	111	99.1	60.0	19.5	33.4	53.5	69.8	123	107	74.3	42.8	23.2	70.4	134	173			
95	97.3	96.0	81.2	44.8	18.3	25.7	43.5	58.7	104	91.0	61.9	32.9	20.3	49.7	104	141			
100	84.0	82.5	67.5	37.1	16.3	20.0	34.7	48.5	90.2	78.1	51.0	25.5	18.6	36.5	83.3	115			
105	71.4	69.5	54.0	30.5	13.5	14.9	27.0	39.3	77.8	66.2	41.3	19.8	15.1	29.5	68.9	97.8			
110	59.6	56.6	45.6	24.7	11.8	10.7	20.5	31.0	66.2	55.2	32.8	15.5	12.9	25.6	55.0	84.0			
115	48.0	43.7	37.3	20.0	10.0	8.70	15.0	23.6	55.5	45.2	25.4	11.9	11.8	22.4	45.4	70.1			
120	38.0	35.8	30.3	16.2	9.12	7.96	10.6	17.2	45.5	36.2	19.1	9.52	10.5	18.3	38.0	56.7			
125	29.4	26.3	23.4	13.0	8.38	7.43	7.44	12.0	36.5	28.1	13.8	8.24	8.91	14.6	32.0	45.3			
130	21.7	21.5	17.3	10.4	8.02	7.01	5.99	8.19	28.4	21.1	9.77	7.46	8.18	11.5	27.5	37.7			
135	15.5	15.2	12.5	8.38	7.41	6.58	5.58	5.64	21.3	15.3	6.84	6.90	7.55	9.13	21.5	30.0			
140	10.3	10.6	8.84	7.25	6.85	6.15	5.37	5.13	15.4	10.7	5.62	6.43	7.08	7.65	15.8	24.0			
145	7.03	7.36	6.56	6.49	6.34	5.83	5.27	5.27	10.7	7.36	5.31	6.05	6.63	6.89	11.3	18.7			
150	5.76	5.89	5.60	5.94	5.97	5.65	5.34	5.42	7.27	5.41	5.30	5.75	6.23	6.33	8.23	13.4			
155	5.83	5.95	5.70	5.63	5.76	5.63	5.55	5.59	5.58	5.40	5.50	5.62	5.95	6.00	6.33	9.37			
160	5.99	6.05	5.86	5.78	5.81	5.81	5.75	5.76	5.69	5.55	5.67	5.77	5.92	5.94	6.11	6.72			
165	6.09	6.12	5.95	5.99	5.97	6.01	5.96	5.94	5.88	5.72	5.84	6.00	6.09	6.11	6.23	6.28			
170	6.20	6.21	6.09	6.13	6.15	6.20	6.14	6.13	6.04	5.90	6.00	6.15	6.26	6.25	6.33	6.37			
175	6.28	6.21	6.20	6.29	6.33	6.39	6.34	6.32	6.17	6.05	6.17	6.29	6.41	6.42	6.40	6.43			
180	6.27	6.20	6.27	6.41	6.46	6.50	6.48	6.47	6.26	6.13	6.26	6.37	6.47	6.48	6.49	6.46			

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:SHI
Test Date:2023-07-12

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: