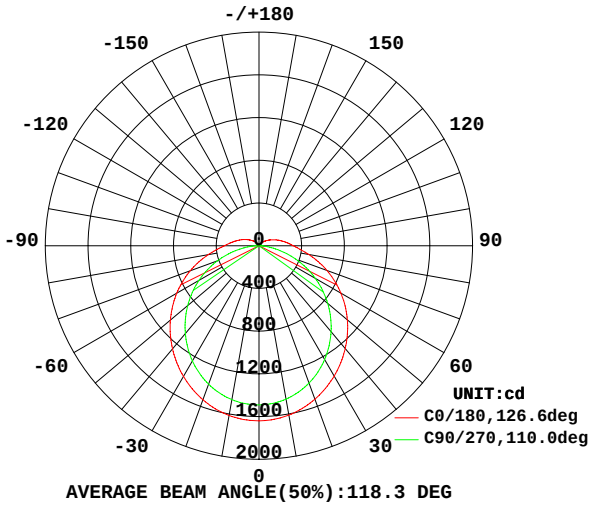
LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:229.9V I:0.2211A P:49.39W PF:0.9713 Lamp Flux:5550.55x1 lm		
NAME: VU546-6500K	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

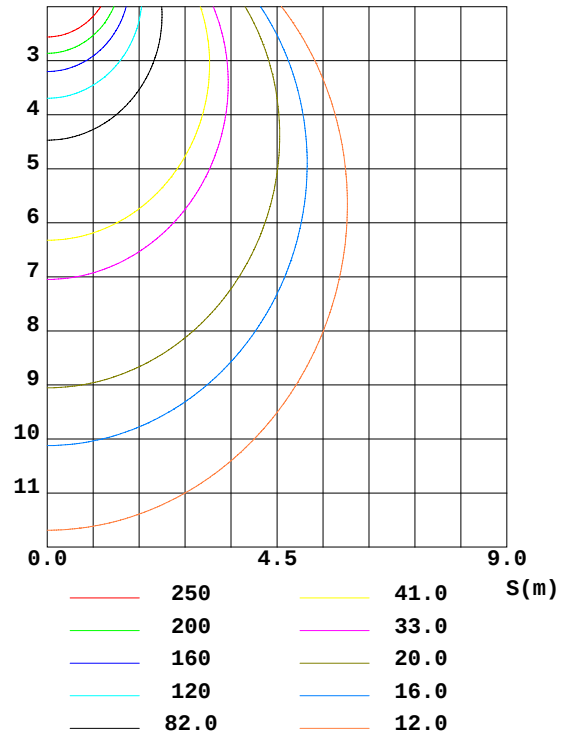
DATA OF LAMP		PHOTOMETRIC DATA Eff: 112.39 lm/W			
MODEL	VU546-6500K	Imax(cd)	1639	S/MH(C0/180)	1.28
NOMINAL POWER(W)	50	LOR(%)	100.0	S/MH(C90/270)	1.23
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	5550.6	η UP,DN(C0-180)	3.6,41.6
NOMINAL FLUX(lm)	5550.55	CIE CLASS	DIRECT	η UP,DN(C180-360)	5.8,49.0
LAMPS INSIDE	1	η up(%)	9.4	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	229.9	η down(%)	90.6	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE BEAM ANGLE(50%):118.3 DEG

C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:SHI
Test Date:2023-07-17

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	1610	1615	1458	1356	1614	1543	1463	1529	0- 10	146.4	146.4	2.64,2.64
20	1529	1562	1369	1208	1535	1426	1380	1539	10- 20	419.5	565.8	10.2,10.2
30	1408	1454	1230	1030	1414	1268	1247	1495	20- 30	637.5	1203	21.7,21.7
40	1256	1301	1050	831.5	1260	1081	1074	1399	30- 40	775.2	1979	35.6,35.6
50	1080	1116	840.1	621.8	1083	875.3	872.0	1260	40- 50	820.5	2799	50.4,50.4
60	884.8	912.2	608.6	414.7	889.2	660.8	649.8	1092	50- 60	774.7	3574	64.4,64.4
70	677.1	697.2	365.5	248.3	684.7	448.4	414.9	905.2	60- 70	652.3	4226	76.1,76.1
80	473.2	481.2	137.8	162.1	482.4	263.4	184.0	710.3	70- 80	485.0	4711	84.9,84.9
90	321.8	288.1	28.37	100.9	324.7	164.1	31.96	514.5	80- 90	318.7	5030	90.6,90.6
100	235.0	184.4	24.90	57.40	236.5	106.1	25.17	327.1	90-100	202.8	5233	94.3,94.3
110	163.9	124.7	21.37	29.06	169.3	64.28	22.73	206.5	100-110	129.8	5362	96.6,96.6
120	107.0	74.23	18.46	16.06	114.2	35.88	20.38	125.6	110-120	81.88	5444	98.1,98.1
130	65.43	42.55	16.38	14.64	70.47	19.19	18.32	88.81	120-130	48.32	5493	99,99
140	34.38	24.19	15.26	14.33	38.41	15.50	16.89	63.22	130-140	27.71	5520	99.5,99.5
150	17.65	15.58	14.77	15.63	19.15	15.49	16.06	41.29	140-150	14.97	5535	99.7,99.7
160	16.98	15.79	15.67	16.70	16.46	16.20	16.16	27.82	150-160	8.642	5544	99.9,99.9
170	17.71	16.78	16.93	17.58	16.84	17.13	17.16	19.53	160-170	4.979	5549	100,100
180	18.05	17.51	17.85	18.11	17.67	17.54	17.86	17.99	170-180	1.669	5551	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

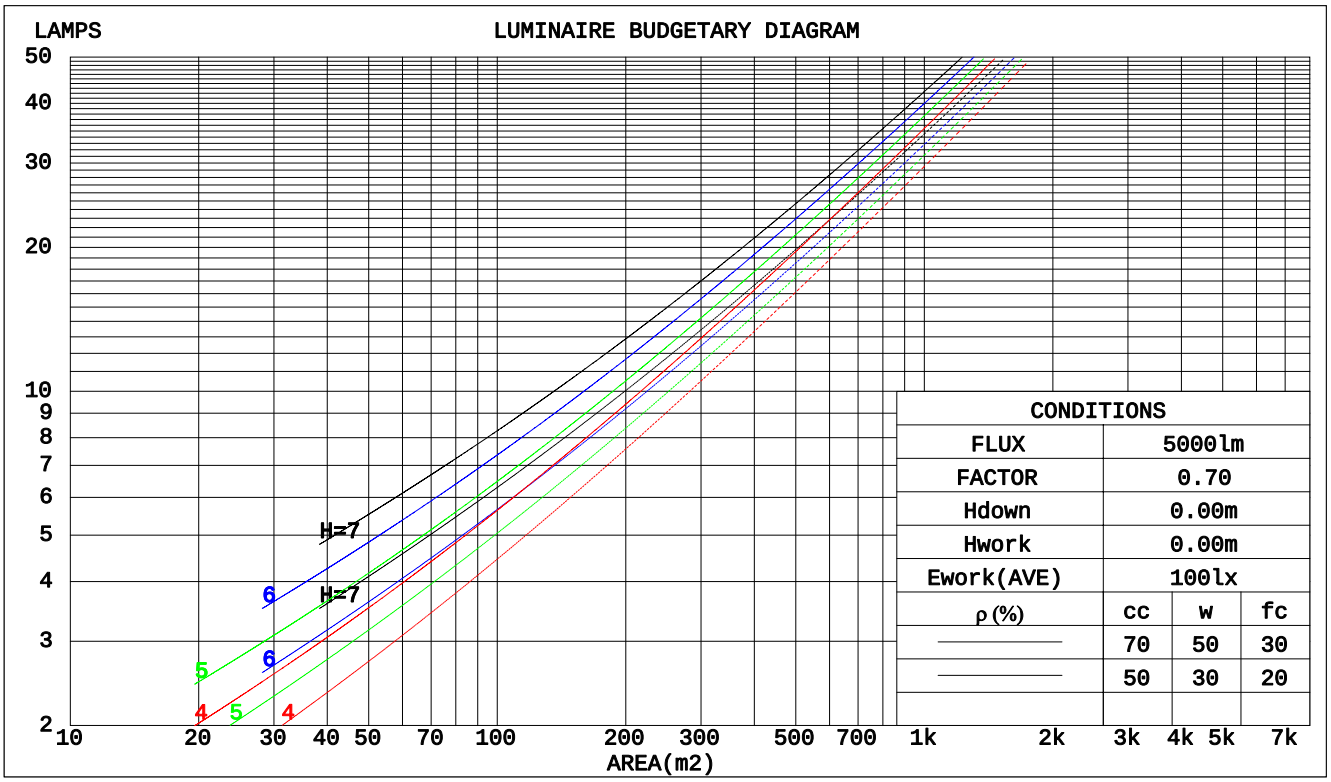
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:SHI
Test Date:2023-07-17

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:0.2211A P:49.39W PF:0.9713 Lamp Flux:5550.55x1 lm		
NAME: VU546-6500K	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	.91
1.0	.99	.94	.89	.96	.91	.87	.90	.86	.83	.84	.81	.78	.79	.77	.74	.72
2.0	.85	.78	.71	.83	.76	.70	.77	.72	.67	.73	.68	.64	.68	.64	.61	.58
3.0	.74	.66	.59	.72	.64	.57	.68	.61	.55	.64	.58	.53	.60	.55	.51	.48
4.0	.66	.56	.49	.64	.55	.48	.60	.52	.47	.56	.50	.45	.53	.48	.43	.41
5.0	.58	.49	.42	.57	.48	.41	.53	.46	.40	.50	.44	.39	.48	.42	.37	.35
6.0	.52	.43	.36	.51	.42	.36	.48	.41	.35	.45	.39	.34	.43	.37	.33	.30
7.0	.47	.38	.32	.46	.38	.32	.44	.36	.31	.41	.35	.30	.39	.33	.29	.27
8.0	.43	.34	.28	.42	.34	.28	.40	.33	.27	.38	.31	.27	.36	.30	.26	.24
9.0	.39	.31	.25	.39	.31	.25	.37	.30	.25	.35	.29	.24	.33	.28	.23	.21
10.0	.36	.28	.23	.36	.28	.23	.34	.27	.22	.32	.26	.22	.31	.25	.21	.19



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:SHI
Test Date:2023-07-17

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:0.2211A P:49.39W PF:0.9713 Lamp Flux:5550.55x1 lm		
NAME: VU546-6500K	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	.361	.205	.065	.351	.200	.064	.332	.190	.061	.314	.181	.058	.299	.173	.056	
2.0	.320	.175	.054	.311	.171	.053	.294	.163	.051	.278	.156	.049	.264	.149	.047	
3.0	.288	.153	.046	.280	.150	.045	.264	.143	.044	.250	.137	.042	.237	.131	.041	
4.0	.261	.136	.040	.254	.133	.039	.240	.127	.038	.228	.122	.037	.216	.117	.036	
5.0	.239	.122	.035	.232	.119	.035	.220	.114	.034	.208	.110	.033	.198	.106	.032	
6.0	.219	.110	.031	.214	.108	.031	.202	.104	.030	.192	.100	.029	.182	.096	.029	
7.0	.203	.100	.028	.198	.099	.028	.188	.095	.027	.178	.091	.027	.169	.088	.026	
8.0	.189	.092	.026	.184	.091	.026	.175	.087	.025	.166	.084	.024	.158	.081	.024	
9.0	.176	.085	.024	.172	.084	.024	.163	.081	.023	.156	.078	.022	.148	.075	.022	
10.0	.165	.079	.022	.161	.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	.262	.262	.262	.224	.224	.224	.153	.153	.153	.088	.088	.088	.028	.028	.028	
1.0	.256	.228	.202	.219	.195	.174	.150	.134	.120	.086	.078	.070	.028	.025	.023	
2.0	.249	.204	.167	.213	.176	.145	.146	.122	.101	.084	.071	.059	.027	.023	.019	
3.0	.241	.187	.145	.206	.162	.125	.142	.112	.088	.082	.066	.052	.026	.021	.017	
4.0	.233	.175	.130	.200	.151	.113	.138	.105	.079	.080	.062	.047	.026	.020	.015	
5.0	.225	.164	.119	.194	.142	.104	.133	.099	.073	.077	.058	.044	.025	.019	.014	
6.0	.218	.156	.112	.187	.135	.098	.129	.095	.069	.075	.056	.041	.024	.018	.014	
7.0	.211	.150	.107	.181	.130	.093	.125	.091	.066	.073	.054	.039	.024	.018	.013	
8.0	.204	.144	.102	.176	.125	.089	.122	.088	.063	.071	.052	.038	.023	.017	.012	
9.0	.198	.139	.099	.171	.121	.086	.118	.085	.061	.069	.050	.037	.022	.016	.012	
10.0	.192	.135	.097	.166	.117	.084	.115	.082	.060	.067	.049	.036	.022	.016	.012	

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:SHI
Test Date:2023-07-17

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:0.2211A P:49.39W PF:0.9713 Lamp Flux:5550.55x1 lm		
NAME: VU546-6500K	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	21.1	22.5	21.5	22.9	23.3	20.1	21.6	20.5	22.0	22.4
3H	23.2	24.5	23.6	24.9	25.3	21.6	23.0	22.1	23.4	23.8
4H	24.2	25.5	24.7	25.9	26.4	22.2	23.5	22.6	23.9	24.3
6H	25.3	26.5	25.8	27.0	27.5	22.6	23.8	23.0	24.2	24.7
8H	25.9	27.1	26.4	27.5	28.0	22.7	23.8	23.2	24.3	24.8
12H	26.6	27.7	27.1	28.2	28.7	22.7	23.9	23.2	24.3	24.8
4H 2H	21.8	23.1	22.3	23.5	24.0	21.2	22.4	21.6	22.9	23.3
3H	24.1	25.2	24.6	25.7	26.2	23.0	24.1	23.5	24.6	25.1
4H	25.3	26.4	25.9	26.9	27.4	23.8	24.8	24.3	25.3	25.8
6H	26.6	27.5	27.2	28.1	28.6	24.4	25.3	24.9	25.8	26.4
8H	27.3	28.2	27.9	28.7	29.3	24.6	25.5	25.2	26.0	26.6
12H	28.1	28.9	28.7	29.4	30.0	24.7	25.5	25.3	26.1	26.7
8H 4H	25.8	26.7	26.4	27.2	27.8	24.6	25.4	25.1	26.0	26.5
6H	27.4	28.1	27.9	28.6	29.3	25.6	26.3	26.2	26.9	27.5
8H	28.2	28.9	28.8	29.4	30.1	26.0	26.7	26.6	27.2	27.9
12H	29.2	29.8	29.8	30.4	31.1	26.4	26.9	27.0	27.5	28.2
12H 4H	25.9	26.7	26.4	27.2	27.8	24.7	25.5	25.3	26.1	26.7
6H	27.5	28.2	28.1	28.8	29.4	25.9	26.6	26.5	27.2	27.8
8H	28.5	29.1	29.1	29.7	30.3	26.5	27.1	27.1	27.7	28.4
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					+ 0.3 / - 0.6				

CIE Pub.117 Corrected 5551 lm Total Lamp Luminous Flux.(8log(F/F0) = 6.0)

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:SHI
Test Date:2023-07-17

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:0.2211A P:49.39W PF:0.9713 Lamp Flux:5550.55x1 lm		
NAME: VU546-6500K	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

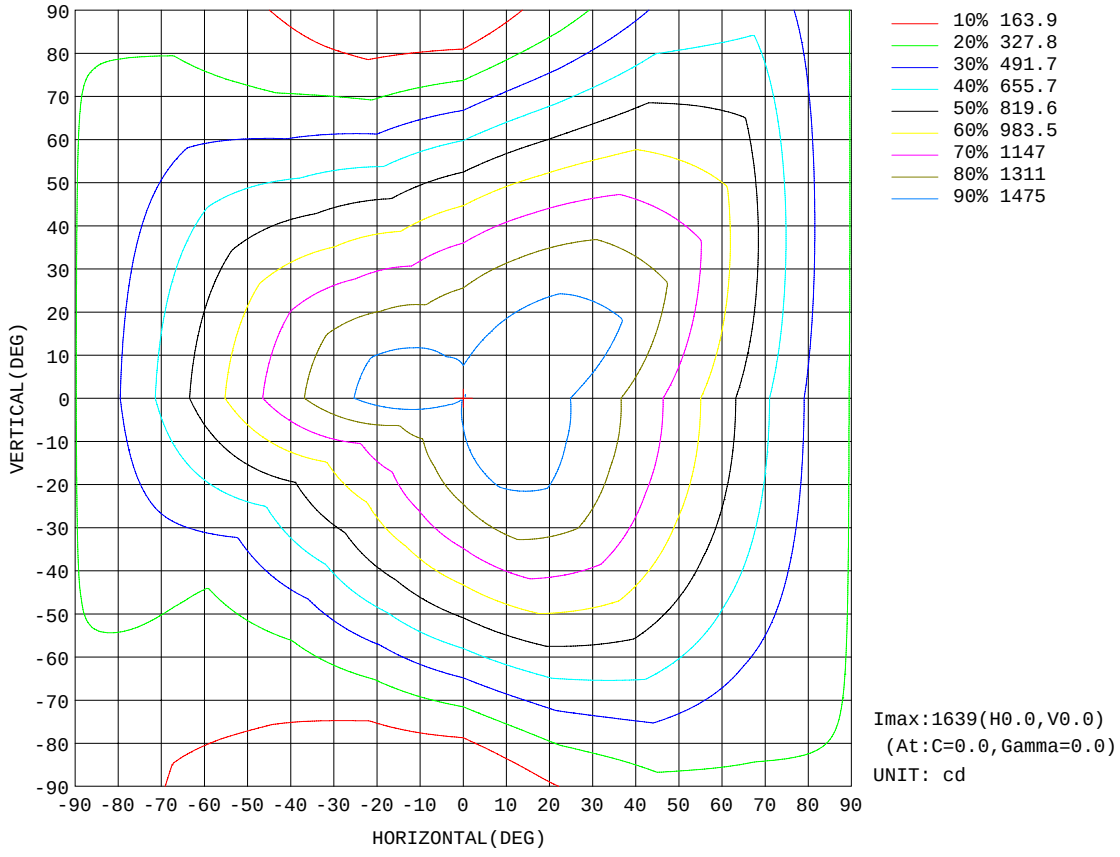
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	52	40	33	51	40	33	50	39	32	26
0.80	62	49	41	60	48	41	58	47	40	33
1.00	69	57	49	68	56	49	65	57	48	40
1.25	76	65	57	75	64	56	71	62	55	46
1.50	81	70	62	79	69	61	75	66	60	51
2.00	89	78	71	86	77	70	81	74	68	58
2.50	93	83	76	90	82	75	85	78	72	62
3.00	96	88	81	93	86	80	88	82	77	66
4.00	101	94	88	98	91	86	92	87	82	70
5.00	104	97	92	100	95	90	94	90	86	74
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:2023-07-17

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:0.2211A P:49.39W PF:0.9713 Lamp Flux:5550.55x1 lm		
NAME: VU546-6500K	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
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Test Speed: HIGH
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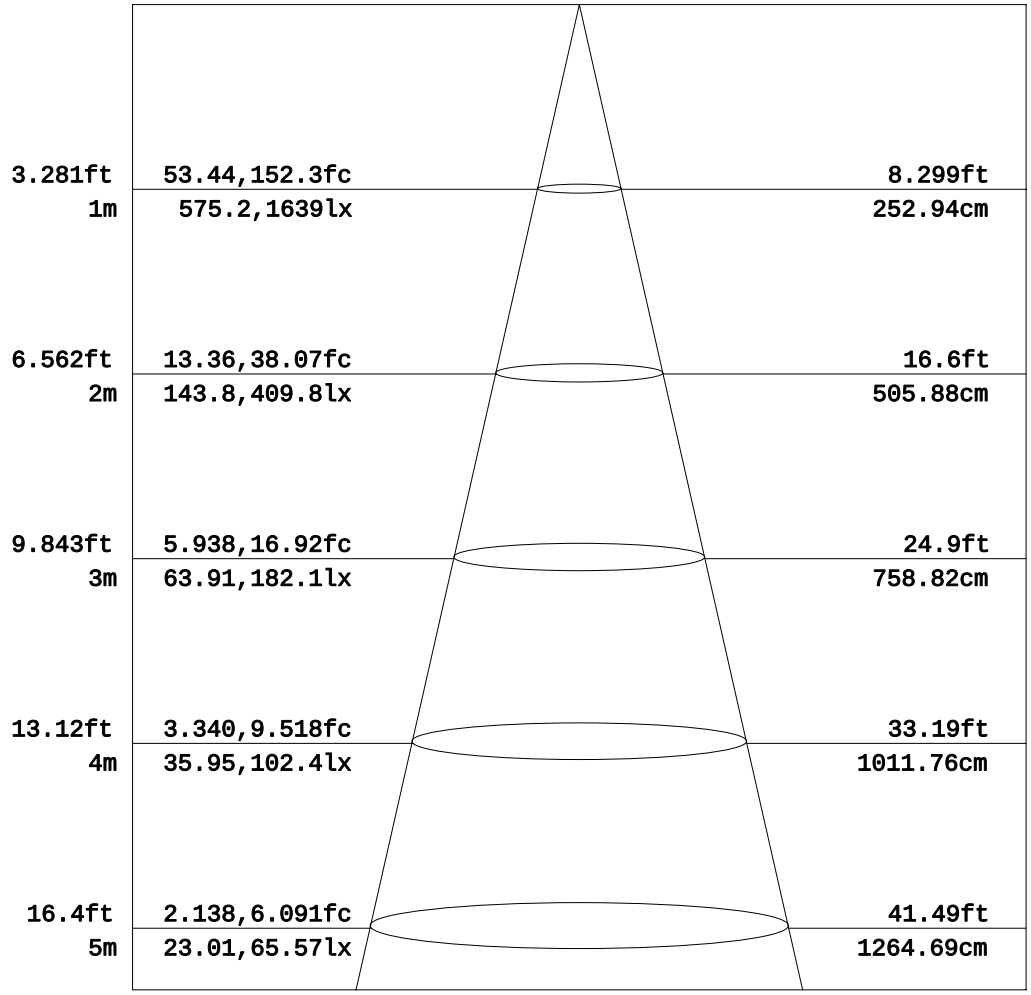
Test Date:2023-07-17

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:

AAI Figure

Test:U:229.9V I:0.2211A P:49.39W PF:0.9713 Lamp Flux:5550.55x1 lm		
NAME: VU546-6500K	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

Flux out:2960 lm



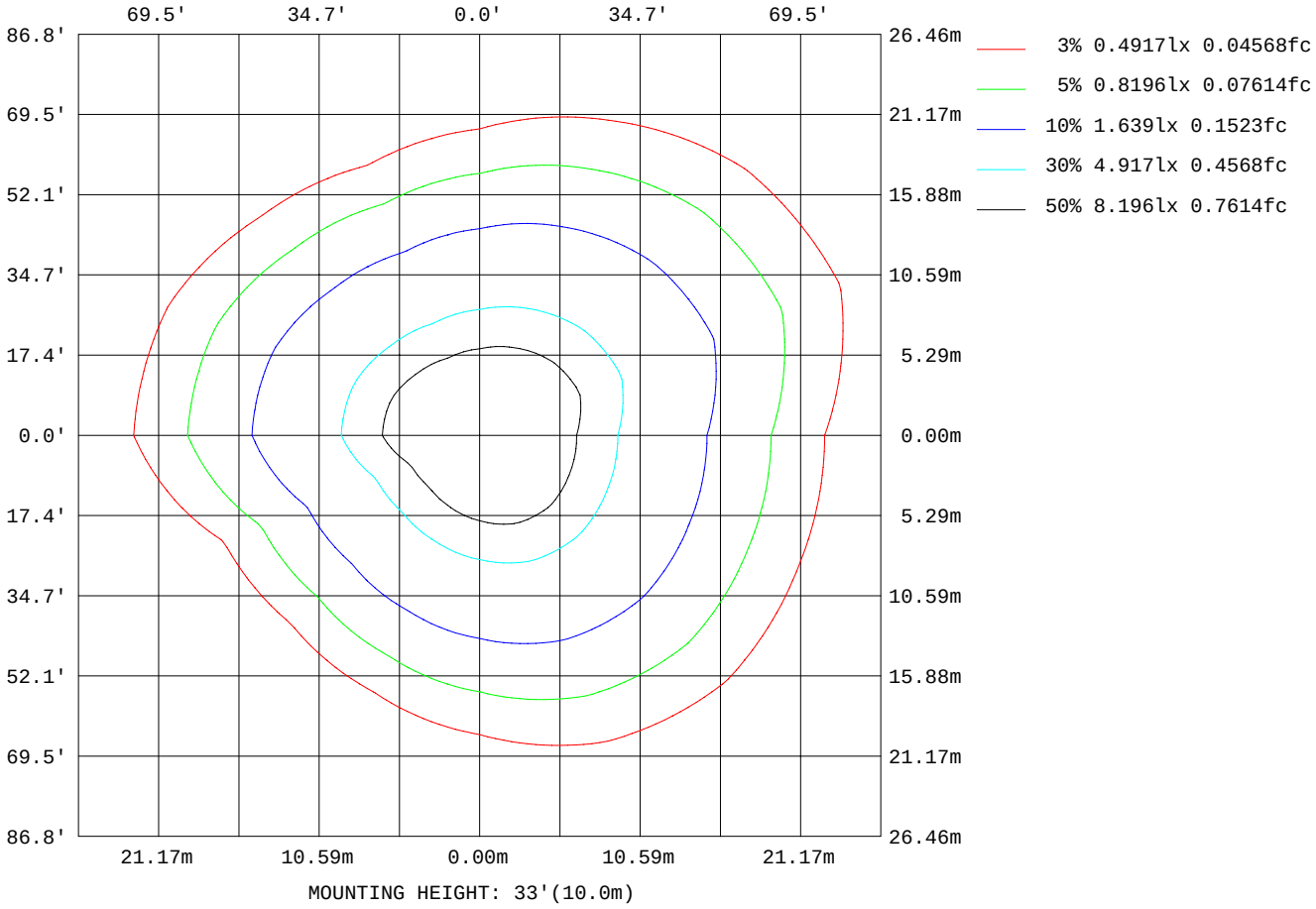
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:SHI
Test Date:2023-07-17

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:

ISOLUX DIAGRAM

Test:U:229.9V I:0.2211A P:49.39W PF:0.9713 Lamp Flux:5550.55x1 lm		
NAME: VU546-6500K	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:



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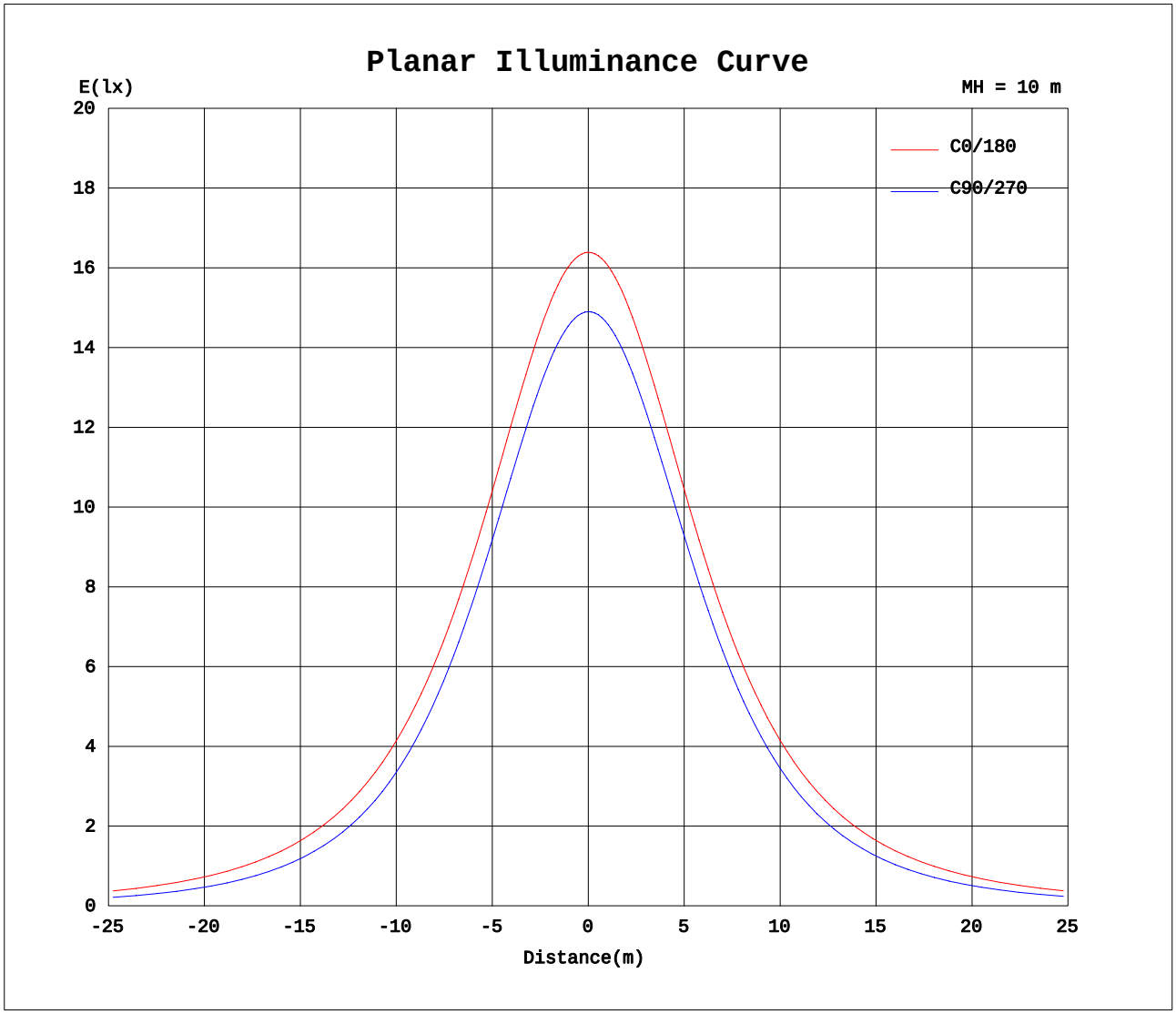
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.276
Humidity:65.0%
Test Distance:7.750m [K=1.0000]
Remarks:

Planar Illuminance Curve



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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:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:229.9V I:0.2211A P:49.39W PF:0.9713 Lamp Flux:5550.55x1 lm		
NAME: VU546-6500K	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	1639	1638	1608	1543	1490	1473	1466	1518	1639	1638	1608	1543	1490	1473	1466	1518			
5	1631	1634	1619	1554	1482	1442	1417	1463	1633	1627	1583	1518	1484	1490	1504	1561			
10	1610	1617	1615	1549	1458	1398	1356	1400	1614	1603	1543	1478	1463	1493	1529	1591			
15	1576	1586	1595	1529	1420	1342	1286	1328	1581	1565	1491	1425	1428	1481	1541	1607			
20	1529	1541	1562	1494	1369	1274	1208	1248	1535	1515	1426	1359	1380	1456	1539	1609			
25	1473	1486	1514	1446	1305	1196	1122	1162	1479	1453	1352	1283	1319	1417	1523	1597			
30	1408	1421	1454	1384	1230	1109	1030	1071	1414	1383	1268	1197	1247	1366	1495	1571			
35	1335	1347	1382	1310	1144	1014	932	976	1340	1305	1177	1103	1164	1303	1453	1533			
40	1256	1266	1301	1225	1050	914	831	877	1260	1220	1081	1002	1074	1230	1399	1483			
45	1171	1178	1211	1131	948	808	727	775	1174	1129	980	897	976	1148	1334	1422			
50	1080	1085	1116	1030	840	699	622	671	1083	1034	875	787	872	1058	1260	1353			
55	984	987	1016	922	727	588	517	569	988	935	768	675	763	961	1179	1277			
60	885	885	912	809	609	477	415	469	889	834	661	562	650	860	1092	1195			
65	782	780	806	694	488	368	322	379	787	730	554	450	533	755	1000	1107			
70	677	674	697	577	366	265	248	307	685	626	448	341	415	647	905	1014			
75	573	567	588	462	246	177	199	256	582	523	350	239	297	540	808	918			
80	473	463	481	352	138	119	162	218	482	426	263	154	184	436	710	818			
85	386	371	379	250	55.2	84.1	129	183	393	341	202	99.8	89.0	338	612	714			
90	322	301	288	166	28.4	58.9	101	152	325	279	164	69.8	32.0	248	514	609			
95	275	253	222	111	26.8	40.7	77.0	124	277	237	133	48.6	26.4	172	417	506			
100	235	215	184	87.4	24.9	28.5	57.4	98.6	236	201	106	34.4	25.2	114	327	410			
105	198	180	154	70.2	23.0	21.3	41.4	76.8	201	169	83.4	25.4	24.0	91.1	254	332			
110	164	149	125	56.0	21.4	18.9	29.1	58.1	169	140	64.3	20.9	22.7	74.2	206	276			
115	133	121	98.3	44.6	19.8	17.7	20.4	42.8	140	114	48.6	19.7	21.6	62.7	174	235			
120	107	95.9	74.2	35.7	18.5	16.7	16.1	30.4	114	90.8	35.9	18.7	20.4	52.8	126	199			
125	84.7	75.2	55.7	28.9	17.3	15.9	15.1	21.2	90.9	71.0	26.0	17.8	19.3	44.6	98.0	168			
130	65.4	57.4	42.6	23.7	16.4	15.4	14.6	16.0	70.5	54.2	19.2	17.1	18.3	38.2	88.8	138			
135	48.4	41.9	32.3	19.8	15.7	15.2	14.3	15.2	53.0	40.2	16.1	16.6	17.5	32.9	77.5	110			
140	34.4	27.2	24.2	17.1	15.3	14.9	14.3	15.2	38.4	28.9	15.5	16.3	16.9	29.4	63.2	82.3			
145	24.2	19.5	18.7	15.3	14.9	14.8	14.9	15.3	27.0	20.9	15.3	16.1	16.4	26.1	51.1	64.0			
150	17.6	16.0	15.6	14.6	14.8	15.0	15.6	15.5	19.1	16.8	15.5	15.9	16.1	23.2	41.3	46.9			
155	16.6	16.2	15.2	14.9	15.0	15.6	16.2	16.0	16.3	16.4	15.8	16.0	15.9	20.8	33.8	34.7			
160	17.0	16.6	15.8	15.6	15.7	16.2	16.7	16.6	16.5	16.4	16.2	16.5	16.2	18.9	27.8	26.9			
165	17.3	16.9	16.3	16.2	16.3	16.8	17.2	17.1	16.7	16.4	16.7	16.9	16.7	17.7	23.2	21.4			
170	17.7	17.1	16.8	16.8	16.9	17.3	17.6	17.5	16.8	16.6	17.1	17.3	17.2	17.3	19.5	17.9			
175	18.0	17.4	17.1	17.4	17.5	17.8	18.0	17.9	17.2	17.0	17.5	17.6	17.7	17.6	17.8	17.8			
180	18.1	17.5	17.5	17.7	17.9	18.0	18.1	18.1	17.7	17.4	17.5	17.7	17.9	18.0	18.0	18.0			

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:SHI
Test Date:2023-07-17

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: