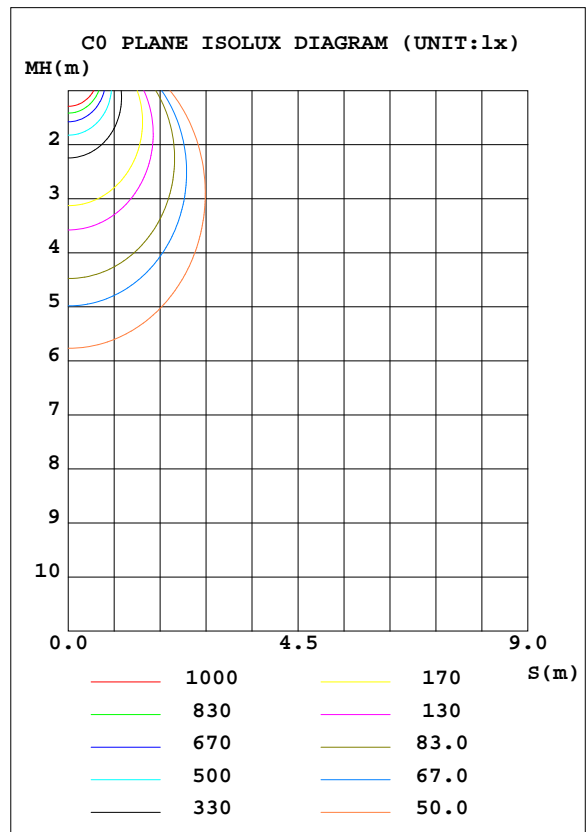
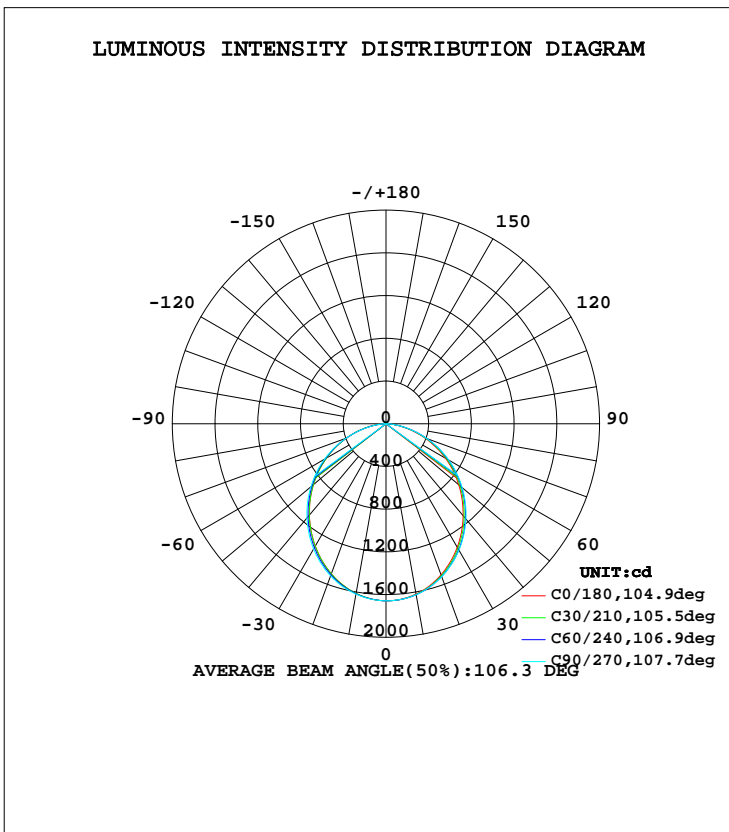


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:240.3V I:0.1900A P:44.00W PF:0.9610 Lamp Flux:4468.16x1 lm		
NAME: LL42W-CC-B	TYPE:42W	WEIGHT:
DIM.:	SPEC.:5700K	SERIAL No.:1
MFR.:	SUR.:1.475*0.030	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 101.55 lm/W			
MODEL	LL42W-CC-B	I _{max} (cd)	1659	S/MH(C0/180)	1.20
NOMINAL POWER(W)	42	LOR(%)	100.0	S/MH(C90/270)	1.23
RATED VOLTAGE(V)	240	TOTAL FLUX(lm)	4468.2	η UP, DN(C0-180)	0.7, 49.4
NOMINAL FLUX(lm)	4468.16	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.6, 49.3
LAMPS INSIDE	1	η up(%)	1.3	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	240.3	η down(%)	98.7	CIBSE SHR MAX	1.35



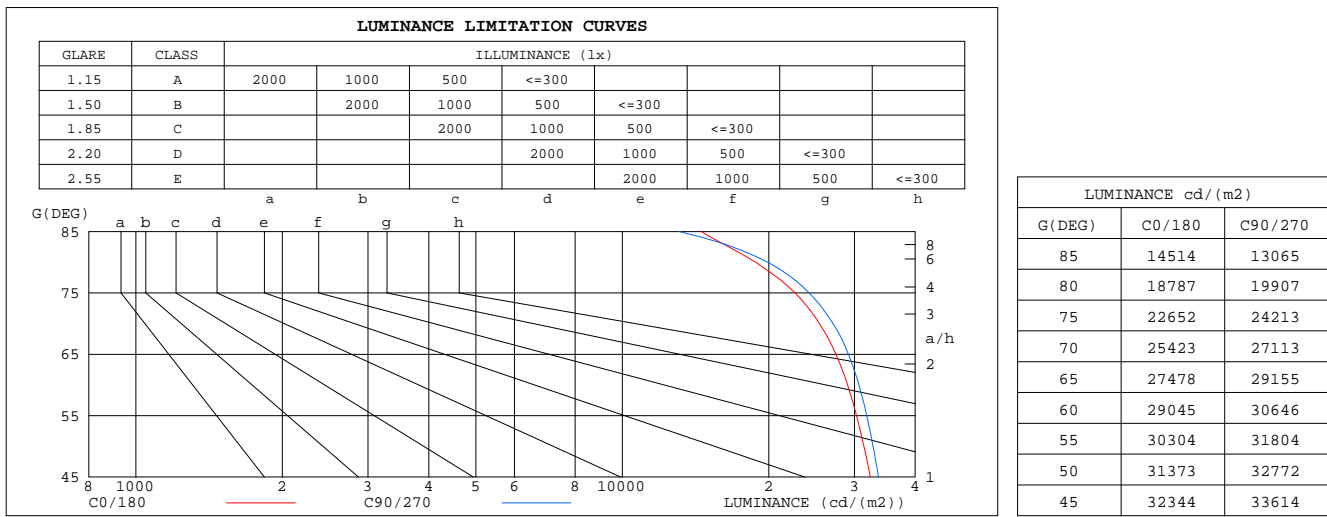
C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2020-12-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity:65.0%
 Test Distance:10.237m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM
AND LUMINANCE LIMITATION CURVES

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Φ lum,lamp
10	1620	1625	1625	1615	1614	1615	1620	1626	0- 10	156.4	156.4	3.5,3.5
20	1506	1519	1524	1504	1496	1502	1516	1520	10- 20	443.6	600.1	13.4,13.4
30	1335	1355	1366	1337	1324	1333	1355	1355	20- 30	660.5	1261	28.2,28.2
40	1124	1149	1165	1132	1116	1127	1152	1147	30- 40	779.2	2040	45.7,45.7
50	889.8	914.7	932.0	900.5	887.6	895.9	919.0	912.1	40- 50	790.6	2830	63.3,63.3
60	640.8	663.2	678.0	652.6	646.1	649.7	665.6	659.8	50- 60	699.9	3530	79,79
70	383.6	401.8	410.3	395.4	396.4	395.3	400.3	398.4	60- 70	522.1	4052	90.7,90.7
80	143.9	154.2	152.9	152.8	161.7	154.8	145.9	151.9	70- 80	286.9	4339	97.1,97.1
90	10.96	9.488	3.787	8.745	15.40	10.06	3.301	8.831	80- 90	71.26	4410	98.7,98.7
100	4.058	4.279	4.629	4.289	3.380	4.189	4.546	4.052	90-100	4.456	4415	98.8,98.8
110	6.140	6.313	7.052	6.404	5.303	6.221	7.206	5.917	100-110	5.499	4420	98.9,98.9
120	8.341	8.564	9.403	8.715	7.540	8.517	9.714	8.167	110-120	7.350	4428	99.1,99.1
130	10.73	10.87	11.74	11.09	9.684	10.74	11.79	10.28	120-130	8.726	4437	99.3,99.3
140	13.08	12.99	13.77	13.31	11.87	12.84	13.56	12.29	130-140	9.175	4446	99.5,99.5
150	15.30	14.98	15.46	15.30	13.94	14.66	15.05	14.03	140-150	8.691	4454	99.7,99.7
160	17.34	16.72	16.85	16.91	15.96	16.16	16.25	15.61	150-160	7.219	4462	99.9,99.9
170	19.02	18.06	17.89	18.16	17.77	17.34	17.20	16.95	160-170	4.834	4466	100,100
180	19.71	18.74	18.34	18.75	19.73	18.74	18.34	18.72	170-180	1.739	4468	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		



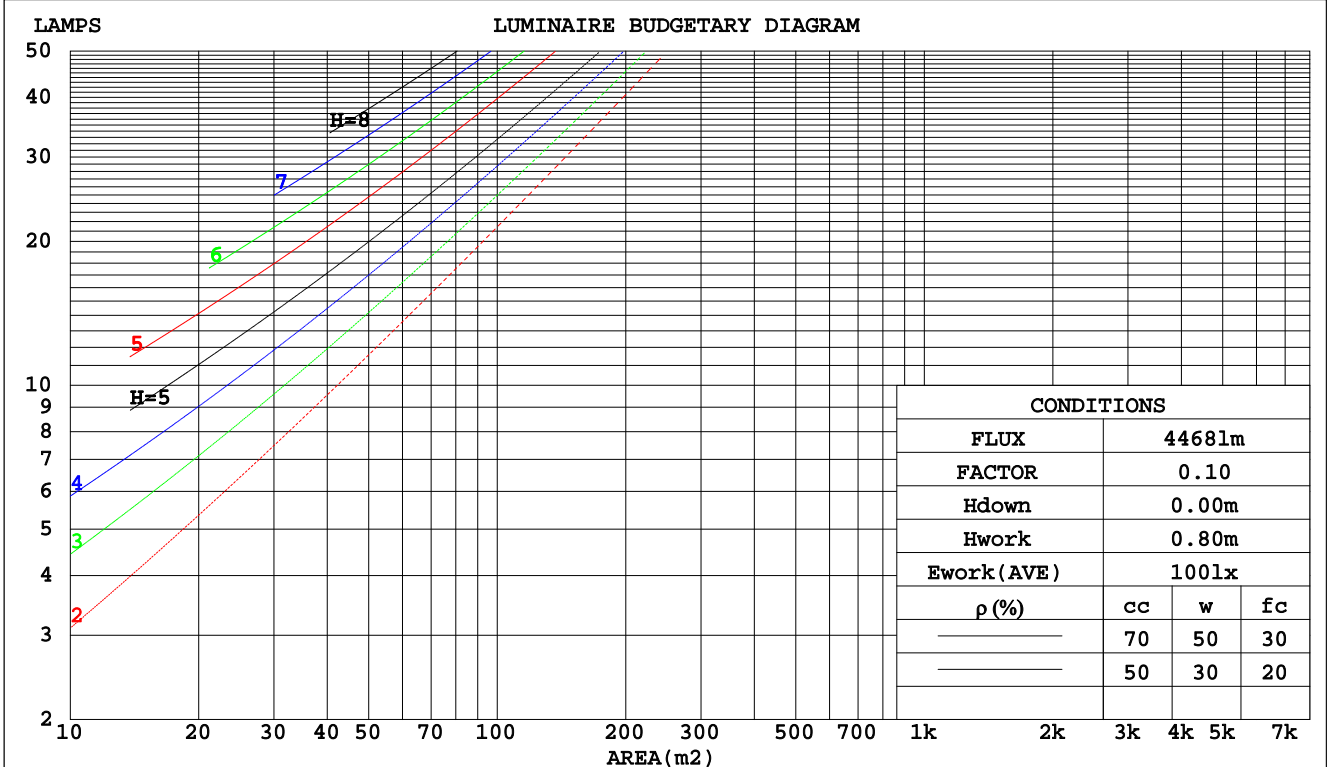
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2020-12-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
Humidity:65.0%
Test Distance:10.237m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:240.3V I:0.1900A P:44.00W PF:0.9610 Lamp Flux:4468.16x1 lm		
NAME: LL42W-CC-B	TYPE:42W	WEIGHT:
DIM.:	SPEC.:5700K	SERIAL No.:1
MFR.:	SUR.:1.475*0.030	PROTECTION ANGLE:

pcc	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pw																0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															
	Coefficients of Utilization(CU)															
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.10	1.10	1.10	1.05	1.05	1.05	1.01	1.01	1.01	.99
1.0	1.04	.90	.96	1.02	.98	.94	.97	.94	.91	.93	.90	.88	.89	.87	.85	.83
2.0	.91	.84	.78	.89	.83	.77	.85	.80	.75	.82	.77	.74	.78	.75	.72	.69
3.0	.80	.72	.65	.78	.71	.65	.75	.69	.63	.72	.67	.62	.69	.65	.61	.59
4.0	.71	.62	.56	.69	.61	.55	.67	.60	.54	.64	.58	.53	.62	.57	.52	.50
5.0	.63	.54	.48	.62	.54	.48	.60	.53	.47	.58	.51	.46	.56	.50	.46	.44
6.0	.57	.48	.42	.56	.48	.42	.54	.47	.41	.52	.46	.41	.51	.45	.40	.38
7.0	.52	.43	.37	.51	.43	.37	.49	.42	.37	.48	.41	.36	.46	.40	.36	.34
8.0	.47	.39	.33	.47	.39	.33	.45	.38	.33	.44	.37	.32	.43	.37	.32	.30
9.0	.43	.35	.30	.43	.35	.30	.42	.34	.29	.40	.34	.29	.39	.33	.29	.27
10.0	.40	.32	.27	.40	.32	.27	.38	.32	.27	.37	.31	.27	.37	.31	.26	.25



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2020-12-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity:65.0%
 Test Distance:10.237m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:240.3V I:0.1900A P:44.00W PF:0.9610 Lamp Flux:4468.16x1 lm		
NAME: LL42W-CC-B	TYPE:42W	WEIGHT:
DIM.:	SPEC.:5700K	SERIAL No.:1
MFR.:	SUR.:1.475*0.030	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 Coefficients(WEC)									
0.0																
1.0	.302	.171	.054	.294	.168	.053	.280	.161	.051	.267	.154	.049	.255	.148	.048	
2.0	.285	.156	.048	.279	.153	.047	.266	.148	.046	.255	.143	.045	.244	.138	.044	
3.0	.265	.141	.042	.259	.139	.042	.248	.134	.041	.238	.130	.040	.228	.126	.039	
4.0	.245	.127	.037	.240	.125	.037	.230	.122	.036	.221	.119	.036	.213	.115	.035	
5.0	.227	.115	.033	.222	.114	.033	.213	.111	.033	.205	.108	.032	.198	.106	.032	
6.0	.210	.106	.030	.206	.104	.030	.199	.102	.030	.191	.100	.029	.185	.097	.029	
7.0	.196	.097	.027	.192	.096	.027	.186	.094	.027	.179	.092	.027	.173	.090	.026	
8.0	.183	.090	.025	.180	.089	.025	.174	.087	.025	.168	.085	.025	.163	.083	.024	
9.0	.172	.083	.023	.169	.082	.023	.163	.081	.023	.158	.079	.023	.153	.078	.022	
10.0	.162	.078	.022	.159	.077	.021	.154	.075	.021	.149	.074	.021	.145	.073	.021	

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	.200	.200	.200	.171	.171	.171	.117	.117	.117	.067	.067	.067	.021	.021	.021	
1.0	.190	.166	.145	.162	.143	.125	.111	.098	.086	.064	.057	.050	.020	.018	.016	
2.0	.181	.142	.109	.155	.122	.094	.106	.085	.066	.061	.049	.038	.020	.016	.013	
3.0	.173	.124	.085	.149	.107	.074	.102	.074	.052	.059	.044	.031	.019	.014	.010	
4.0	.166	.111	.069	.142	.096	.060	.098	.067	.042	.057	.039	.025	.018	.013	.008	
5.0	.158	.101	.058	.136	.087	.050	.094	.061	.036	.054	.036	.021	.017	.012	.007	
6.0	.151	.092	.050	.130	.080	.043	.090	.056	.031	.052	.033	.018	.017	.011	.006	
7.0	.145	.085	.044	.124	.074	.038	.086	.052	.027	.050	.031	.016	.016	.010	.005	
8.0	.138	.079	.039	.119	.069	.034	.082	.048	.024	.048	.029	.014	.015	.009	.005	
9.0	.132	.075	.036	.114	.065	.031	.079	.045	.022	.046	.027	.013	.015	.009	.004	
10.0	.127	.070	.033	.109	.061	.029	.076	.043	.020	.044	.025	.012	.014	.008	.004	

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2020-12-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity:65.0%
 Test Distance:10.237m [K=1.0000]
 Remarks:

Uncorrected UGR Table

Test:U:240.3V I:0.1900A P:44.00W PF:0.9610 Lamp Flux:4468.16x1 lm										
NAME: LL42W-CC-B					TYPE:42W			WEIGHT:		
DIM.:					SPEC.:5700K			SERIAL No.:1		
MFR.:					SUR.:1.475*0.030			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	24.6	26.1	24.9	26.3	26.5	24.8	26.3	25.1	26.5	26.8
3H	26.0	27.4	26.3	27.6	27.9	26.3	27.6	26.6	27.9	28.2
4H	26.5	27.8	26.9	28.1	28.4	26.8	28.1	27.1	28.4	28.7
6H	26.8	28.1	27.2	28.4	28.7	27.2	28.4	27.5	28.7	29.0
8H	26.9	28.1	27.3	28.4	28.7	27.2	28.4	27.6	28.7	29.0
12H	27.0	28.1	27.3	28.4	28.7	27.2	28.4	27.6	28.7	29.0
4H 2H	25.2	26.5	25.5	26.8	27.1	25.4	26.7	25.7	27.0	27.2
3H	26.8	27.9	27.2	28.2	28.6	27.0	28.1	27.4	28.5	28.8
4H	27.4	28.5	27.8	28.8	29.2	27.7	28.7	28.1	29.1	29.4
6H	27.9	28.8	28.3	29.1	29.5	28.1	29.0	28.5	29.4	29.8
8H	28.0	28.8	28.4	29.2	29.6	28.2	29.1	28.7	29.5	29.9
12H	28.0	28.8	28.5	29.2	29.7	28.3	29.1	28.7	29.5	29.9
8H 4H	27.7	28.5	28.1	28.9	29.3	27.9	28.7	28.3	29.1	29.6
6H	28.2	28.9	28.7	29.4	29.8	28.5	29.2	28.9	29.6	30.1
8H	28.4	29.1	28.9	29.5	30.0	28.7	29.3	29.1	29.7	30.2
12H	28.5	29.1	29.0	29.6	30.1	28.8	29.3	29.3	29.8	30.3
12H 4H	27.7	28.5	28.1	28.9	29.3	27.9	28.7	28.3	29.1	29.5
6H	28.3	28.9	28.8	29.3	29.8	28.5	29.1	29.0	29.6	30.1
8H	28.5	29.0	29.0	29.5	30.0	28.7	29.3	29.2	29.7	30.2
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.2					+ 0.2 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				

CIE Pub.117 Corrected 4468 lm Total Lamp Luminous Flux.(8log(F/F0) = 5.2)

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2020-12-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity:65.0%
 Test Distance:10.237m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:240.3V I:0.1900A P:44.00W PF:0.9610 Lamp Flux:4468.16x1 lm		
NAME: LL42W-CC-B	TYPE:42W	WEIGHT:
DIM.:	SPEC.:5700K	SERIAL No.:1
MFR.:	SUR.:1.475*0.030	PROTECTION ANGLE:

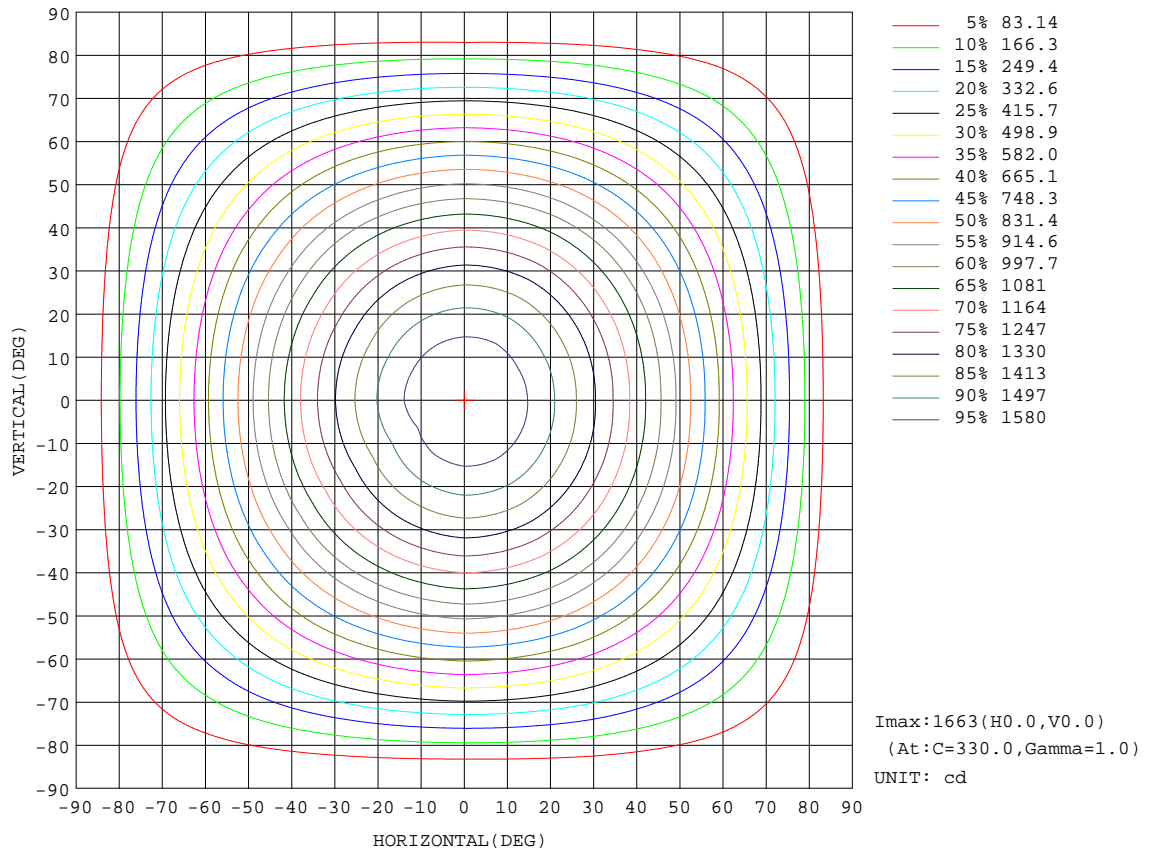
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	58	47	40	57	46	40	56	46	39	33
0.80	68	57	49	67	56	49	65	55	49	42
1.00	76	66	58	75	65	58	73	66	57	50
1.25	83	73	66	82	72	66	79	71	65	57
1.50	88	79	72	87	78	71	84	76	70	63
2.00	95	87	80	93	86	80	90	83	78	70
2.50	99	91	85	97	90	84	93	87	82	74
3.00	102	96	90	100	94	89	96	91	87	78
4.00	106	101	96	104	99	95	99	95	92	83
5.00	109	104	100	106	102	98	101	98	95	85
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2020-12-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity:65.0%
 Test Distance:10.237m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:240.3V I:0.1900A P:44.00W PF:0.9610 Lamp Flux:4468.16x1 lm		
NAME: LL42W-CC-B	TYPE:42W	WEIGHT:
DIM.:	SPEC.:5700K	SERIAL No.:1
MFR.:	SUR.:1.475*0.030	PROTECTION ANGLE:

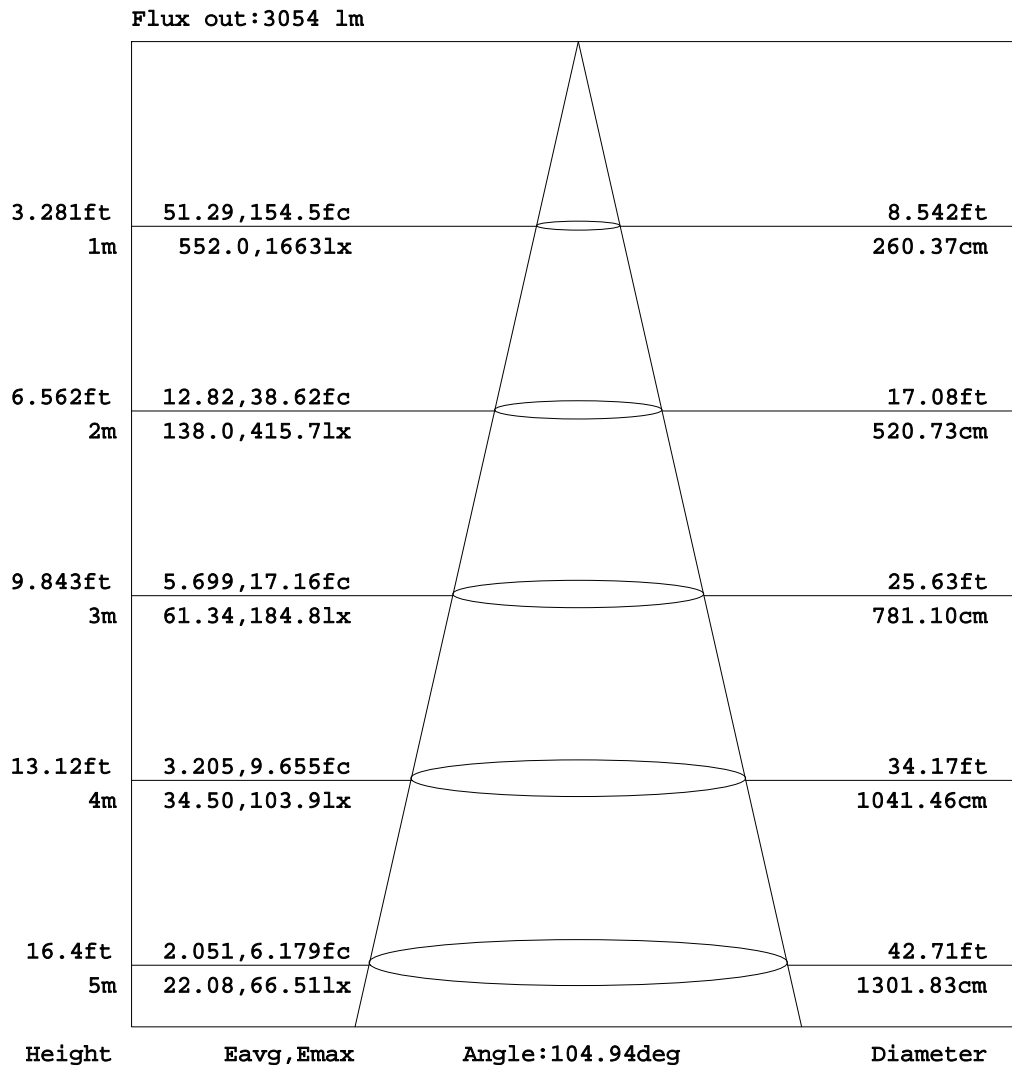


C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2020-12-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity:65.0%
 Test Distance:10.237m [K=1.0000]
 Remarks:

AAI Figure

Test:U:240.3V I:0.1900A P:44.00W PF:0.9610 Lamp Flux:4468.16x1 lm		
NAME: LL42W-CC-B	TYPE:42W	WEIGHT:
DIM.:	SPEC.:5700K	SERIAL No.:1
MFR.:	SUR.:1.475*0.030	PROTECTION ANGLE:



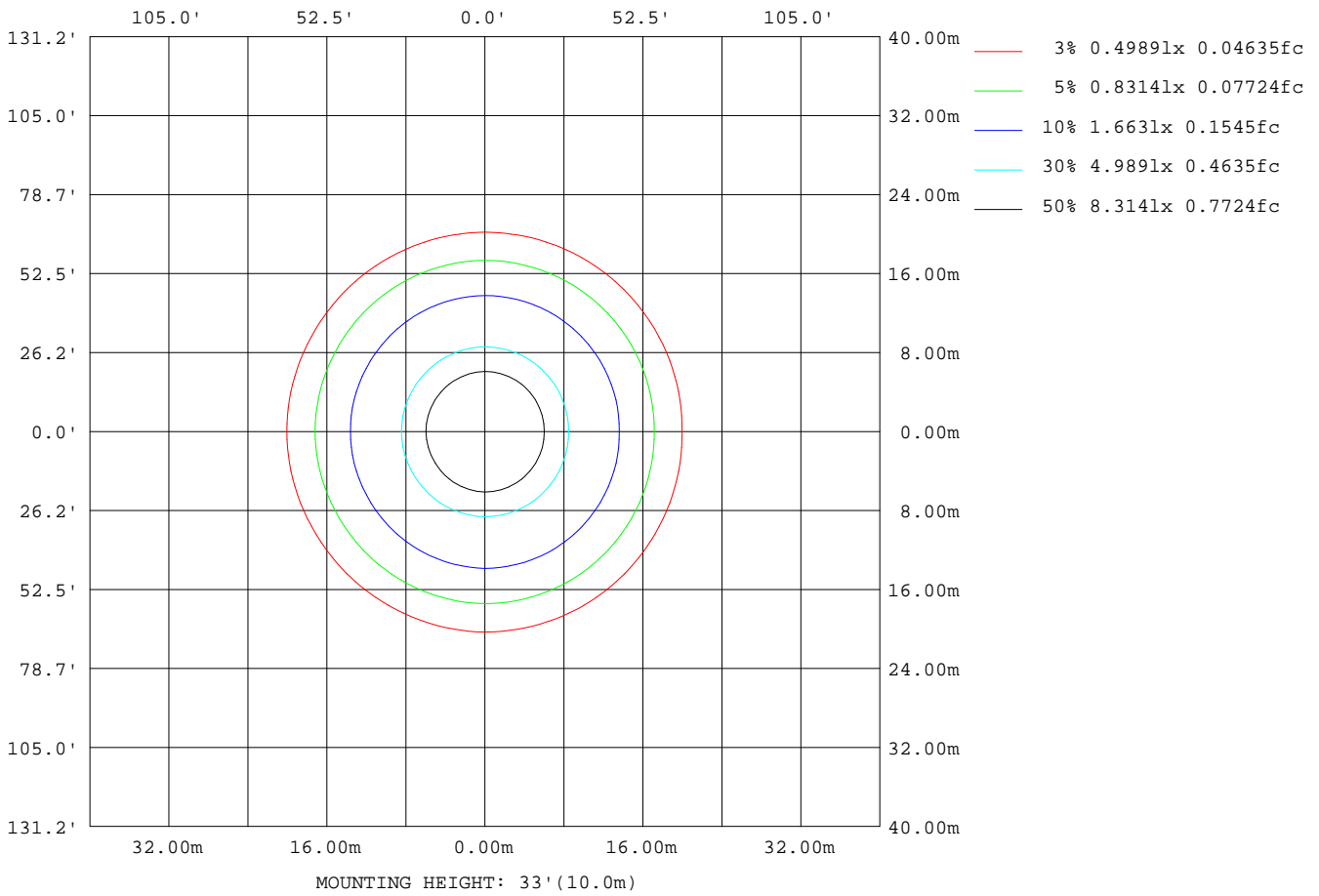
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2020-12-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity:65.0%
 Test Distance:10.237m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

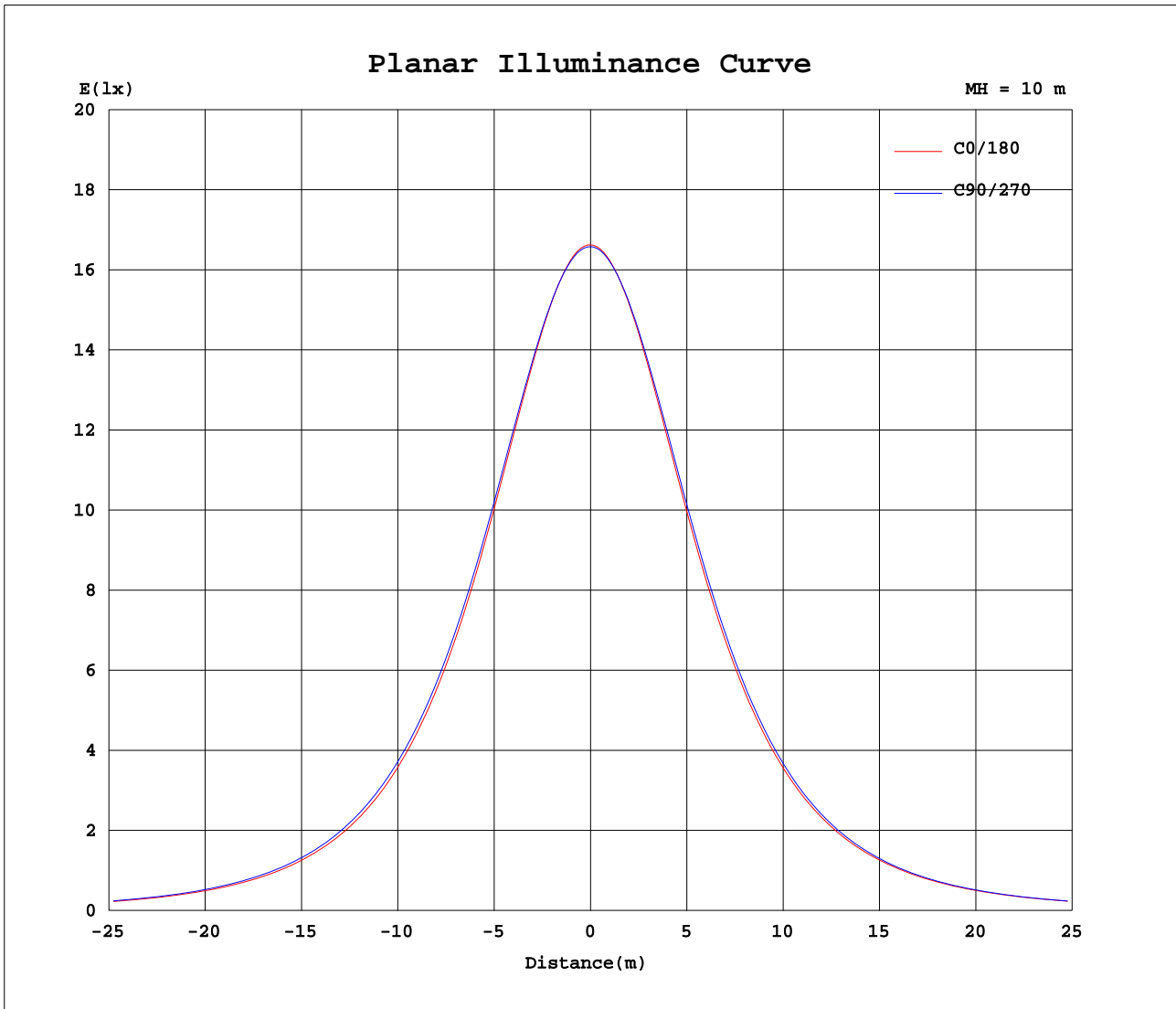
Test:U:240.3V I:0.1900A P:44.00W PF:0.9610 Lamp Flux:4468.16x1 lm		
NAME: LL42W-CC-B	TYPE:42W	WEIGHT:
DIM.:	SPEC.:5700K	SERIAL No.:1
MFR.:	SUR.:1.475*0.030	PROTECTION ANGLE:



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2020-12-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity:65.0%
 Test Distance:10.237m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2020-12-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity: 65.0%
 Test Distance: 10.237m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:240.3V I:0.1900A P:44.00W PF:0.9610 Lamp Flux:4468.16x1 lm		
NAME: LL42W-CC-B	TYPE:42W	WEIGHT:
DIM.:	SPEC.:5700K	SERIAL No.:1
MFR.:	SUR.:1.475*0.030	PROTECTION ANGLE:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330							
0	1658	1658	1658	1658	1658	1658	1658	1658	1658	1658	1658	1658							
5	1649	1651	1651	1650	1647	1644	1646	1645	1646	1648	1650	1652							
10	1620	1623	1626	1625	1619	1611	1614	1613	1616	1620	1624	1627							
15	1572	1578	1583	1583	1573	1561	1563	1563	1570	1576	1580	1583							
20	1506	1515	1524	1524	1511	1496	1496	1497	1507	1516	1520	1521							
25	1426	1437	1450	1452	1435	1418	1416	1417	1430	1442	1445	1443							
30	1335	1347	1363	1366	1347	1328	1324	1325	1341	1355	1357	1353							
35	1233	1247	1265	1270	1248	1229	1224	1225	1242	1258	1259	1252							
40	1124	1139	1158	1165	1141	1122	1116	1118	1135	1152	1151	1143							
45	1009	1024	1044	1052	1028	1010	1004	1005	1022	1038	1037	1028							
50	890	905	925	932	909	892	888	888	904	919	917	907							
55	767	781	800	807	786	771	768	767	781	794	792	783							
60	641	655	672	678	658	647	646	644	655	666	663	656							
65	512	526	541	545	529	520	522	519	526	534	532	527							
70	384	395	409	410	398	392	396	394	396	400	399	397							
75	259	268	279	277	271	268	275	272	270	269	271	270							
80	144	152	156	153	152	154	162	157	152	146	151	153							
85	55.8	59.2	57.0	50.4	54.7	61.4	69.5	64.8	56.2	47.2	53.9	59.3							
90	11.0	11.3	7.66	3.79	6.39	11.1	15.4	12.7	7.40	3.30	6.65	11.0							
95	3.20	3.30	3.55	3.55	3.53	3.25	2.69	3.14	3.69	3.36	3.56	3.16							
100	4.06	4.10	4.46	4.63	4.47	4.11	3.38	3.82	4.56	4.55	4.30	3.80							
105	5.04	5.08	5.42	5.81	5.47	5.13	4.28	4.75	5.57	5.89	5.18	4.59							
110	6.14	6.14	6.49	7.05	6.57	6.23	5.30	5.73	6.71	7.21	6.33	5.51							
115	7.18	7.24	7.59	8.23	7.76	7.35	6.40	6.81	7.92	8.48	7.56	6.48							
120	8.34	8.38	8.75	9.40	8.96	8.47	7.54	7.91	9.13	9.71	8.71	7.62							
125	9.51	9.52	9.91	10.6	10.2	9.62	8.72	9.00	10.4	10.9	9.90	8.82							
130	10.7	10.6	11.1	11.7	11.4	10.8	9.68	10.1	11.4	11.8	10.7	9.86							
135	11.9	11.7	12.1	12.8	12.5	12.0	10.8	11.2	12.4	12.7	11.7	10.9							
140	13.1	12.8	13.2	13.8	13.5	13.1	11.9	12.3	13.4	13.6	12.6	11.9							
145	14.2	13.9	14.1	14.7	14.5	14.2	12.9	13.3	14.2	14.3	13.5	12.8							
150	15.3	15.0	15.0	15.5	15.4	15.2	13.9	14.3	15.0	15.0	14.3	13.8							
155	16.3	15.9	15.8	16.2	16.1	16.1	15.0	15.2	15.7	15.7	15.0	14.7							
160	17.3	16.9	16.6	16.9	16.8	17.0	16.0	16.0	16.3	16.3	15.7	15.5							
165	18.2	17.6	17.3	17.4	17.4	17.7	16.8	16.7	16.9	16.7	16.3	16.2							
170	19.0	18.3	17.8	17.9	18.0	18.4	17.8	17.4	17.3	17.2	16.9	17.0							
175	19.5	18.7	18.3	18.2	18.3	18.8	19.4	18.6	18.3	18.2	18.3	18.6							
180	19.7	19.0	18.5	18.3	18.5	19.0	19.7	19.0	18.5	18.3	18.5	19.0							

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2020-12-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity:65.0%
 Test Distance:10.237m [K=1.0000]
 Remarks: