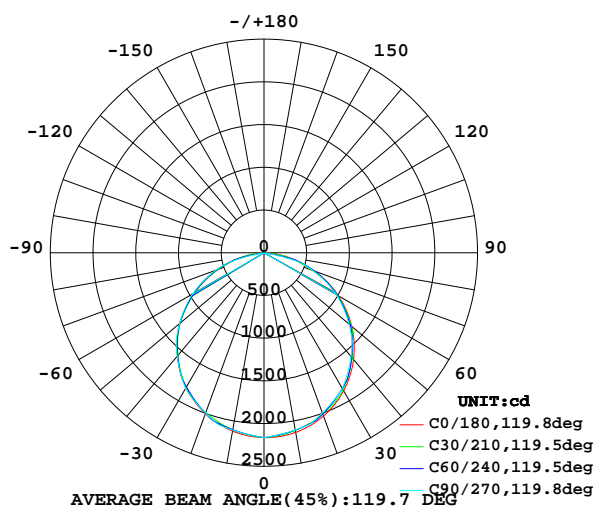


LUMINAIRE PHOTOMETRIC TEST REPORT

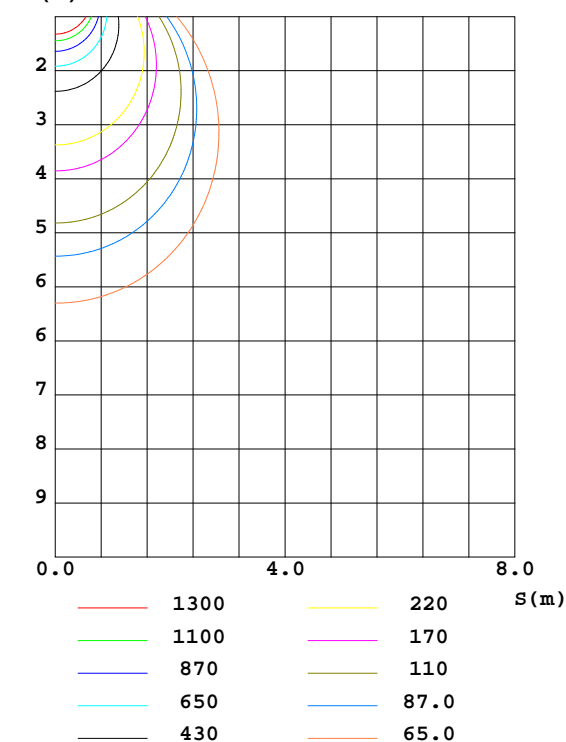
NAME: LED Panel Light	TYPE:210*1500 60W	WEIGHT:
DIM.: 210*1500	SPEC.:PL-21-150-60K-60W	SERIAL No.:20171025011
MFR.: GREEN VIA	SUR.:0.16*1.45	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 105.95 lm/W			
MODEL	2835	Imax(cd)	2164	S/MH(C0/180)	1.28
NOMINAL POWER(W)	57.7	LOR(%)	100.0	S/MH(C90/270)	1.26
RATED VOLTAGE(V)	224	TOTAL FLUX(lm)	6113.5	η UP, DN(C0-180)	0.0, 50.0
NOMINAL FLUX(lm)	6113.48	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0, 50.0
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	223.5	η down(%)	100.0	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:090003
 Test Date:2017-10-25

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.276
 Humidity:65.0%
 Test Distance:9.118m [K=1.0000]
 Remarks: 6000K RA80 17*34 2835

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	#lum,lamp
5	2158	2141	2135	2135	2151	2137	2136	2142	0- 5	51.39	51.39	0.84,0.84
10	2135	2109	2106	2099	2119	2102	2108	2111	5- 10	152.0	203.4	3.33,3.33
15	2094	2068	2077	2055	2071	2058	2081	2071	10- 15	247.8	451.1	7.38,7.38
20	2033	2019	1996	2003	2005	2007	1999	2024	15- 20	335.8	786.9	12.9,12.9
25	1959	1931	1915	1911	1923	1915	1918	1935	20- 25	411.6	1199	19.6,19.6
30	1865	1833	1834	1807	1822	1810	1836	1835	25- 30	474.5	1673	27.4,27.4
35	1755	1729	1710	1698	1708	1700	1709	1729	30- 35	522.1	2195	35.9,35.9
40	1631	1616	1585	1580	1578	1579	1581	1614	35- 40	551.3	2746	44.9,44.9
45	1493	1468	1460	1431	1435	1429	1454	1463	40- 45	562.9	3309	54.1,54.1
50	1341	1318	1299	1281	1281	1278	1291	1311	45- 50	556.2	3866	63.2,63.2
55	1178	1166	1137	1130	1114	1125	1129	1156	50- 55	529.5	4395	71.9,71.9
60	1005	988.0	975.9	947.9	938.5	942.1	966.1	976.3	55- 60	485.7	4881	79.8,79.8
65	822.7	812.6	794.6	766.4	755.9	762.1	783.0	798.8	60- 65	425.2	5306	86.8,86.8
70	632.2	633.9	613.3	581.1	566.6	582.6	599.9	618.0	65- 70	347.9	5654	92.5,92.5
75	443.4	450.2	432.1	399.8	380.0	403.6	416.8	433.2	70- 75	260.8	5915	96.7,96.7
80	265.8	235.0	0	200.6	213.2	202.7	0	222.1	75- 80	153.8	6068	99.3,99.3
85	115.2	0	0	0	75.33	0	0	0	80- 85	40.64	6109	99.9,99.9
90	22.43	0	0	0	24.62	0	0	0	85- 90	4.415	6113	100,100
95									90- 95			
100									95-100			
105									100-105			
110									105-110			
115									110-115			
120									115-120			
125									120-125			
130									125-130			
135									130-135			
140									135-140			
145									140-145			
150									145-150			
155									150-155			
160									155-160			
165									160-165			
170									165-170			
175									170-175			
180									175-180			
DEG	LUMINOUS INTENSITY:cd								UNIT:lm			

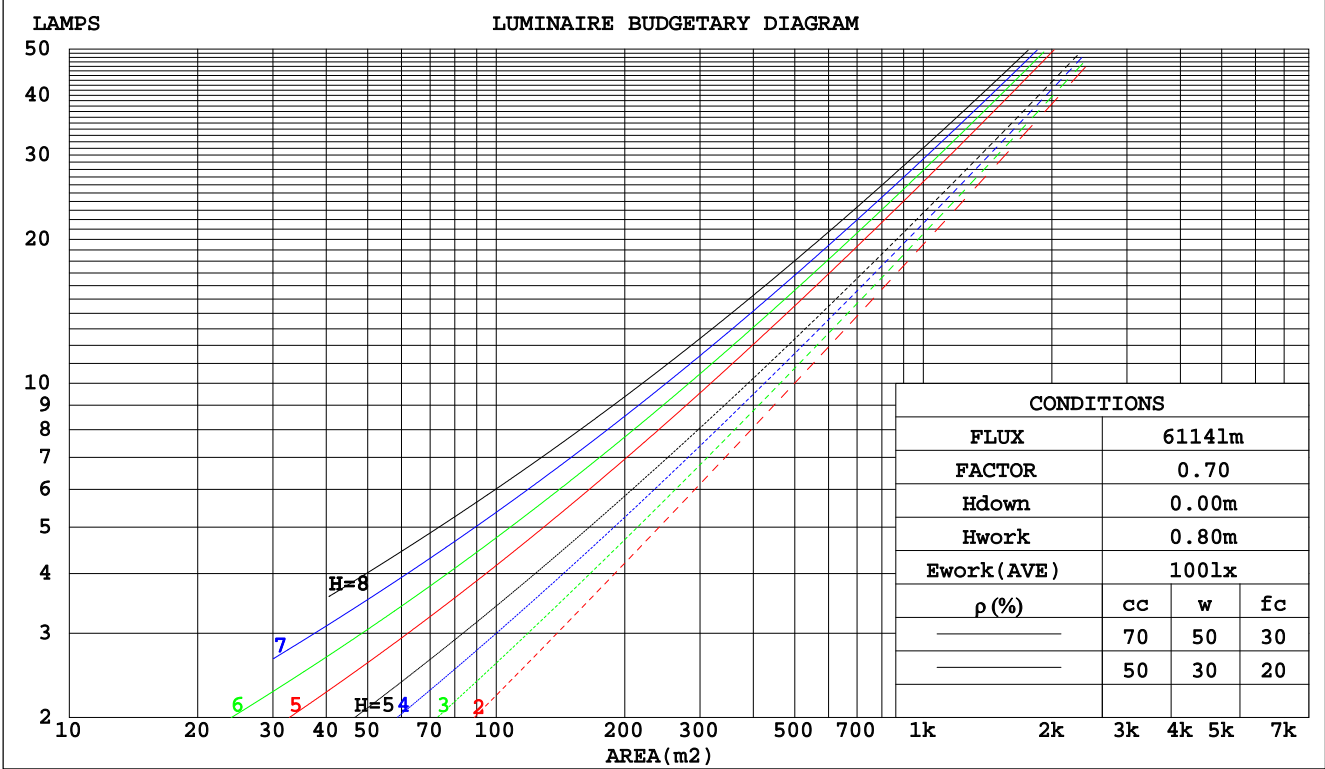
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:090003
 Test Date:2017-10-25

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.276
 Humidity:65.0%
 Test Distance:9.118m [K=1.0000]
 Remarks: 6000K RA80 17*34 2835

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: LED Panel Light	TYPE:210*1500 60W	WEIGHT:
DIM.: 210*1500	SPEC.:PL-21-150-60K-60W	SERIAL No.:20171025011
MFR.: GREEN VIA	SUR.:0.16*1.45	PROTECTION ANGLE:

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						Coefficients of Utilization(CU)									
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	.00
1.0	1.04	1.00	.97	1.02	.98	.95	.98	.95	.92	.94	.92	.89	.90	.88	.87	.84
2.0	.91	.84	.79	.89	.83	.78	.86	.80	.76	.82	.78	.74	.79	.76	.73	.70
3.0	.80	.72	.65	.78	.71	.65	.75	.69	.64	.73	.67	.62	.70	.65	.61	.59
4.0	.71	.62	.55	.69	.61	.55	.67	.60	.54	.65	.58	.53	.62	.57	.53	.50
5.0	.63	.54	.47	.62	.54	.47	.60	.52	.47	.58	.51	.46	.56	.50	.46	.44
6.0	.57	.48	.41	.56	.47	.41	.54	.46	.41	.52	.46	.40	.51	.45	.40	.38
7.0	.51	.43	.36	.51	.42	.36	.49	.42	.36	.48	.41	.36	.46	.40	.36	.34
8.0	.47	.38	.32	.46	.38	.32	.45	.37	.32	.44	.37	.32	.42	.36	.32	.30
9.0	.43	.35	.29	.42	.35	.29	.41	.34	.29	.40	.34	.29	.39	.33	.29	.27
10.0	.40	.32	.26	.39	.32	.26	.38	.31	.26	.37	.31	.26	.36	.30	.26	.24



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:090003
 Test Date:2017-10-25

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.276
 Humidity:65.0%
 Test Distance:9.118m [K=1.0000]
 Remarks: 6000K RA80 17*34 2835

WEC AND CCEC

NAME: LED Panel Light	TYPE:210*1500 60W	WEIGHT:
DIM.: 210*1500	SPEC.:PL-21-150-60K-60W	SERIAL No.:20171025011
MFR.: GREEN VIA	SUR.:0.16*1.45	PROTECTION ANGLE:

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.298	.169	.054	.291	.166	.053	.278	.159	.051	.266	.153	.049	.254	.147	.048	
2.0	.286	.157	.048	.280	.154	.047	.268	.149	.046	.257	.144	.045	.247	.140	.044	
3.0	.267	.142	.043	.261	.140	.042	.251	.136	.041	.241	.132	.041	.233	.129	.040	
4.0	.247	.128	.038	.242	.127	.037	.233	.124	.037	.225	.121	.036	.217	.118	.036	
5.0	.229	.117	.034	.225	.115	.034	.217	.113	.033	.209	.110	.033	.202	.108	.032	
6.0	.213	.107	.031	.209	.106	.030	.202	.103	.030	.195	.101	.030	.189	.099	.029	
7.0	.198	.098	.028	.195	.097	.028	.188	.095	.027	.182	.093	.027	.177	.092	.027	
8.0	.185	.091	.025	.182	.090	.025	.176	.088	.025	.171	.087	.025	.166	.085	.025	
9.0	.174	.084	.023	.171	.083	.023	.166	.082	.023	.161	.081	.023	.156	.079	.023	
10.0	.163	.078	.022	.161	.078	.022	.156	.077	.022	.152	.075	.021	.148	.074	.021	

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.179	.156	.135	.154	.134	.116	.105	.092	.081	.060	.053	.047	.019	.017	.015	
2.0	.171	.132	.099	.147	.114	.085	.101	.079	.060	.058	.046	.035	.019	.015	.011	
3.0	.164	.114	.075	.140	.099	.065	.096	.068	.045	.056	.040	.027	.018	.013	.009	
4.0	.156	.101	.059	.134	.087	.051	.092	.061	.036	.053	.036	.021	.017	.012	.007	
5.0	.149	.091	.047	.128	.078	.041	.088	.055	.029	.051	.032	.017	.016	.010	.006	
6.0	.142	.082	.039	.122	.071	.034	.084	.050	.024	.049	.029	.014	.016	.010	.005	
7.0	.135	.075	.033	.116	.065	.029	.080	.046	.021	.047	.027	.012	.015	.009	.004	
8.0	.129	.069	.029	.111	.060	.025	.077	.042	.018	.045	.025	.011	.014	.008	.004	
9.0	.123	.065	.025	.106	.056	.022	.073	.039	.016	.043	.023	.009	.014	.008	.003	
10.0	.117	.060	.022	.101	.052	.020	.070	.037	.014	.041	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:090003
 Test Date:2017-10-25

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.276
 Humidity:65.0%
 Test Distance:9.118m [K=1.0000]
 Remarks: 6000K RA80 17*34 2835

Uncorrected UGR Table

NAME: LED Panel Light		TYPE:210*1500 60W					WEIGHT:				
DIM.: 210*1500		SPEC.:PL-21-150-60K-60W					SERIAL No.:20171025011				
MFR.: GREEN VIA		SUR.:0.16*1.45					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	20.6	22.1	20.8	22.3	22.5	20.5	22.0	20.8	22.2	22.4	
3H	22.0	23.4	22.3	23.7	23.9	22.1	23.5	22.4	23.7	23.9	
4H	22.6	23.9	22.9	24.2	24.4	22.7	24.0	23.0	24.3	24.5	
6H	23.0	24.2	23.3	24.5	24.8	22.7	24.0	23.1	24.3	24.5	
8H	23.1	24.3	23.4	24.6	24.9	22.7	23.9	23.0	24.2	24.5	
12H	23.2	24.3	23.5	24.6	24.9	22.6	23.8	23.0	24.1	24.4	
4H 2H	21.2	22.5	21.5	22.8	23.0	21.1	22.5	21.5	22.7	23.0	
3H	22.8	24.0	23.2	24.3	24.6	22.9	24.1	23.3	24.4	24.7	
4H	23.5	24.6	23.9	24.9	25.2	23.7	24.7	24.0	25.0	25.4	
6H	24.0	24.9	24.4	25.3	25.7	23.8	24.7	24.2	25.1	25.4	
8H	24.2	25.1	24.6	25.4	25.8	23.7	24.6	24.1	25.0	25.3	
12H	24.3	25.1	24.7	25.5	25.9	23.7	24.5	24.1	24.9	25.3	
8H 4H	23.8	24.7	24.2	25.0	25.4	23.9	24.8	24.3	25.2	25.6	
6H	24.5	25.2	24.9	25.6	26.0	24.1	24.8	24.5	25.2	25.6	
8H	24.7	25.4	25.2	25.8	26.2	24.1	24.7	24.5	25.1	25.6	
12H	24.9	25.5	25.4	25.9	26.4	24.0	24.6	24.5	25.0	25.5	
12H 4H	23.8	24.6	24.2	25.0	25.4	23.9	24.7	24.4	25.1	25.5	
6H	24.4	25.1	24.9	25.5	26.0	24.1	24.8	24.6	25.2	25.6	
8H	24.7	25.3	25.2	25.7	26.2	24.1	24.6	24.6	25.1	25.6	
Variations with the observer position at spacings:											
S = 1.0H	+ 0.1 / - 0.2					+ 0.2 / - 0.3					
1.5H	+ 0.2 / - 0.2					+ 0.1 / - 0.3					
2.0H	+ 0.2 / - 0.4					+ 0.2 / - 0.4					

CIE Pub.117 Corrected 6113 lm Total Lamp Luminous Flux.(8log(F/F0) = 6.3)

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25DEG
Operators:090003
Test Date:2017-10-25

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.276
Humidity:65.0%
Test Distance:9.118m [K=1.0000]
Remarks: 6000K RA80 17*34 2835

UTILIZATION FACTORS TABLE

NAME: LED Panel Light	TYPE:210*1500 60W	WEIGHT:
DIM.: 210*1500	SPEC.:PL-21-150-60K-60W	SERIAL No.:20171025011
MFR.: GREEN VIA	SUR.:0.16*1.45	PROTECTION ANGLE:

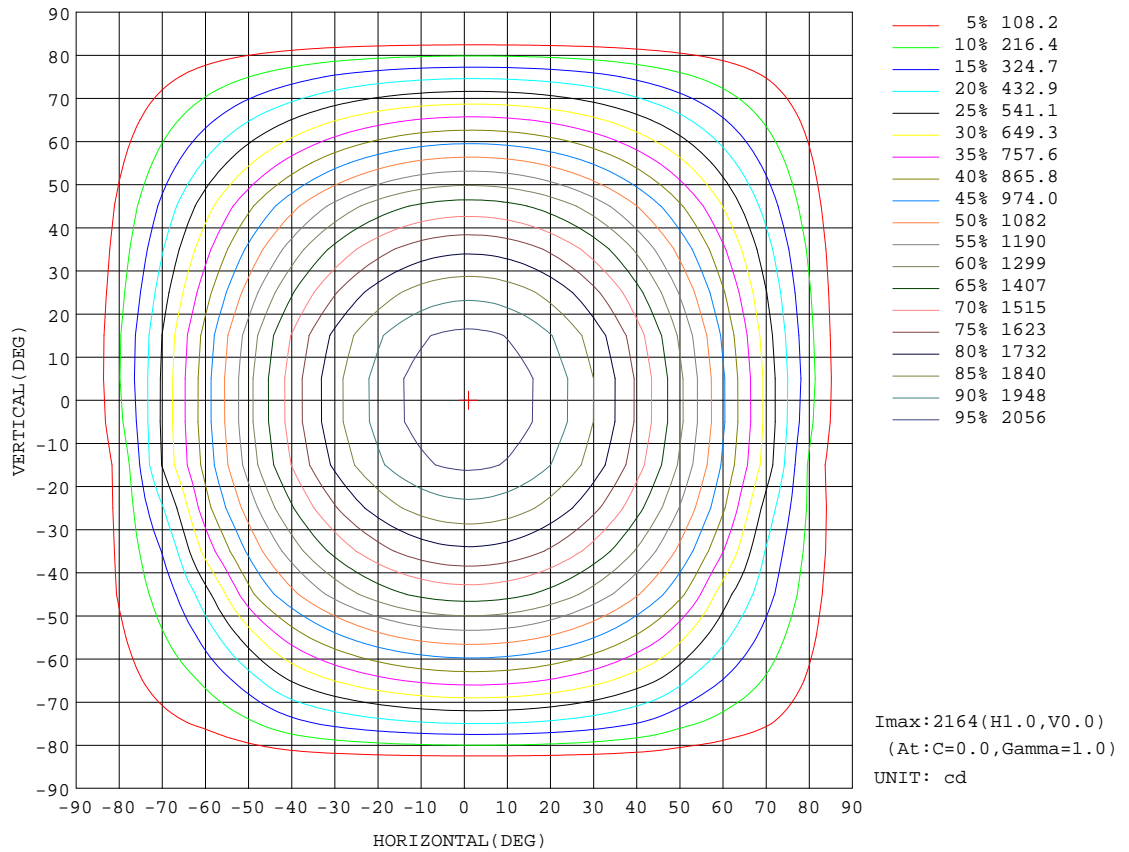
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	58	46	39	57	46	39	56	45	39	32
0.80	68	56	49	67	56	49	65	55	48	41
1.00	76	65	58	75	65	58	73	66	57	50
1.25	83	73	66	82	72	66	79	71	65	58
1.50	89	79	72	87	78	71	84	76	70	63
2.00	95	87	81	94	86	80	90	84	78	71
2.50	99	92	86	97	90	85	94	88	83	75
3.00	103	96	91	101	94	90	97	92	87	79
4.00	107	101	97	104	99	95	100	96	93	84
5.00	109	104	101	107	103	99	102	99	96	87
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:090003
 Test Date:2017-10-25

γ Range: 0 - 90DEG
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 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.276
 Humidity:65.0%
 Test Distance:9.118m [K=1.0000]
 Remarks: 6000K RA80 17*34 2835

ISOCANDELA DIAGRAM

NAME: LED Panel Light	TYPE:210*1500 60W	WEIGHT:
DIM.: 210*1500	SPEC.:PL-21-150-60K-60W	SERIAL No.:20171025011
MFR.: GREEN VIA	SUR.:0.16*1.45	PROTECTION ANGLE:

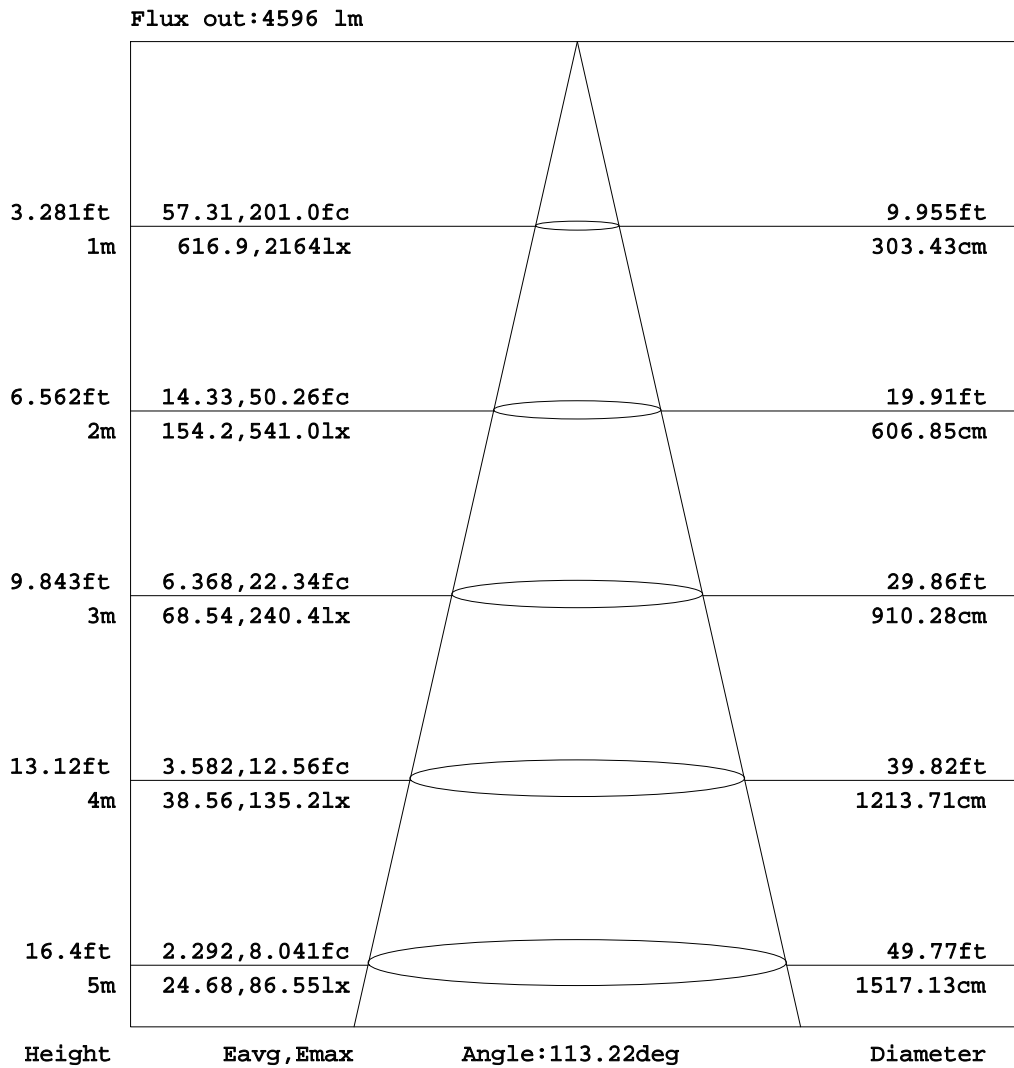


C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
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 Test Date:2017-10-25

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 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.276
 Humidity:65.0%
 Test Distance:9.118m [K=1.0000]
 Remarks: 6000K RA80 17*34 2835

AAI Figure

NAME: LED Panel Light	TYPE:210*1500 60W	WEIGHT:
DIM.: 210*1500	SPEC.:PL-21-150-60K-60W	SERIAL No.:20171025011
MFR.: GREEN VIA	SUR.:0.16*1.45	PROTECTION ANGLE:



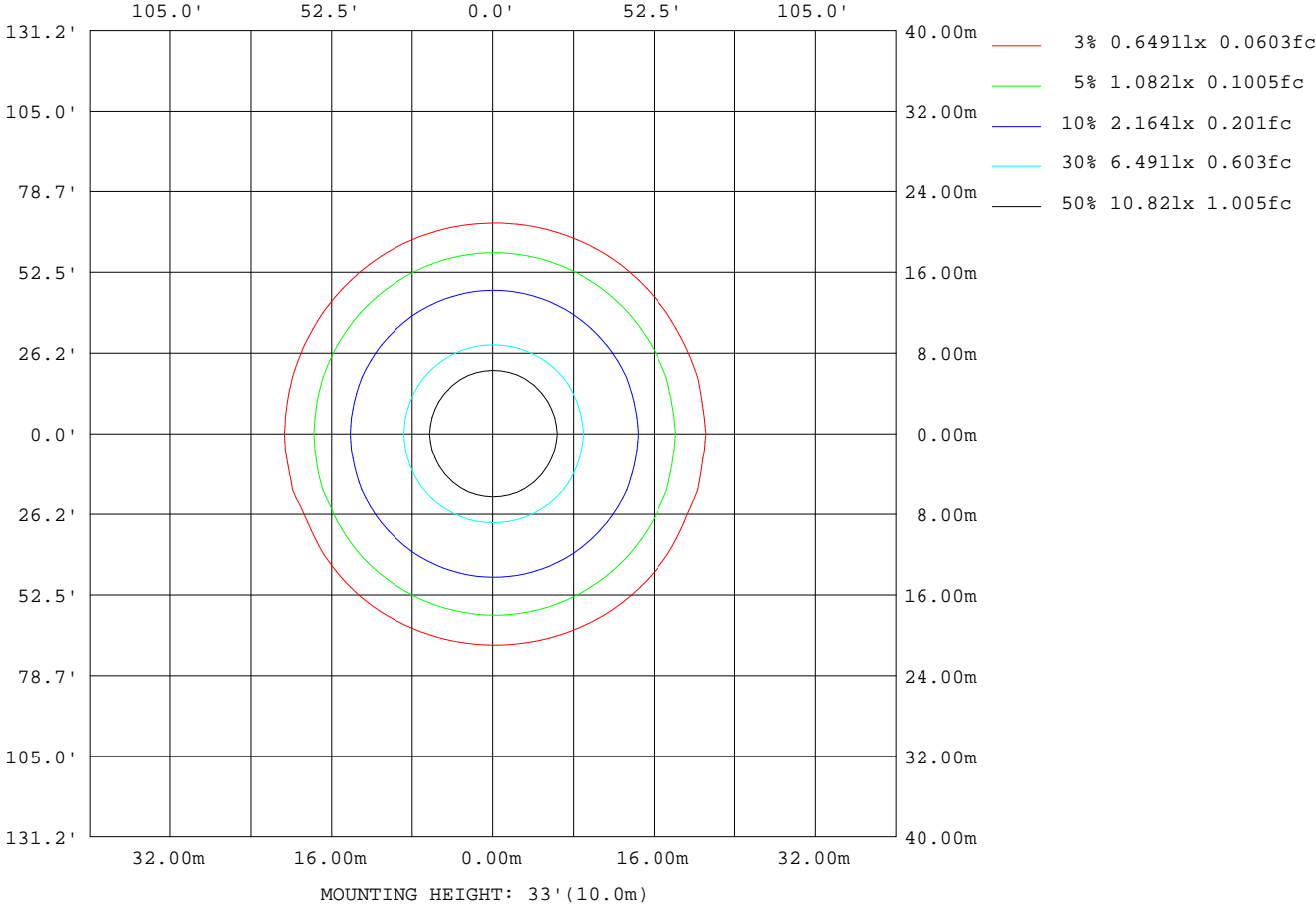
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:090003
 Test Date:2017-10-25

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.276
 Humidity:65.0%
 Test Distance:9.118m [K=1.0000]
 Remarks: 6000K RA80 17*34 2835

ISOLUX DIAGRAM

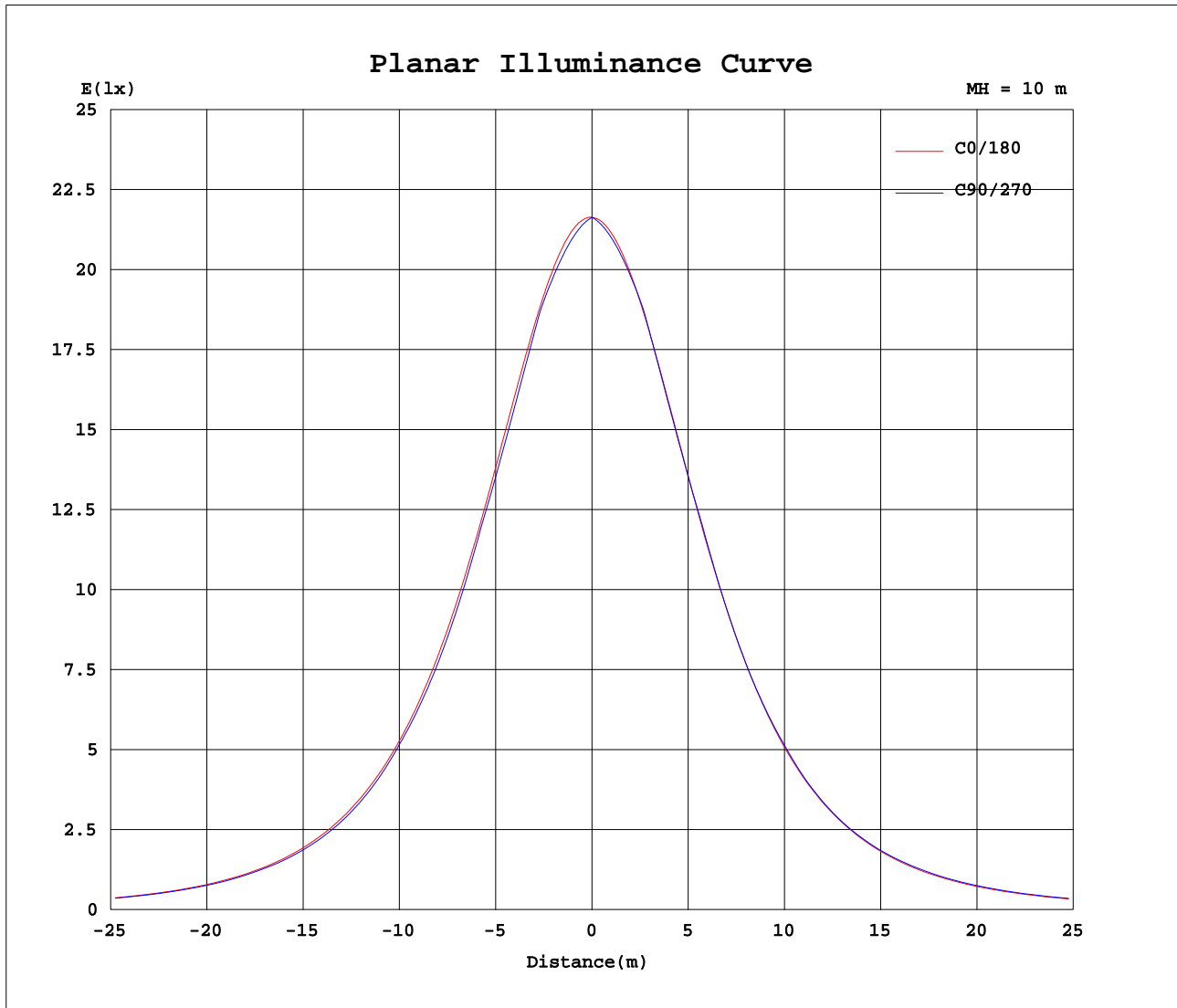
NAME: LED Panel Light	TYPE:210*1500 60W	WEIGHT:
DIM.: 210*1500	SPEC.:PL-21-150-60K-60W	SERIAL No.:20171025011
MFR.: GREEN VIA	SUR.:0.16*1.45	PROTECTION ANGLE:



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:090003
 Test Date:2017-10-25

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.276
 Humidity:65.0%
 Test Distance:9.118m [K=1.0000]
 Remarks: 6000K RA80 17*34 2835

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators: 090003
 Test Date: 2017-10-25

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.276
 Humidity: 65.0%
 Test Distance: 9.118m [K=1.0000]
 Remarks: 6000K RA80 17*34 2835

