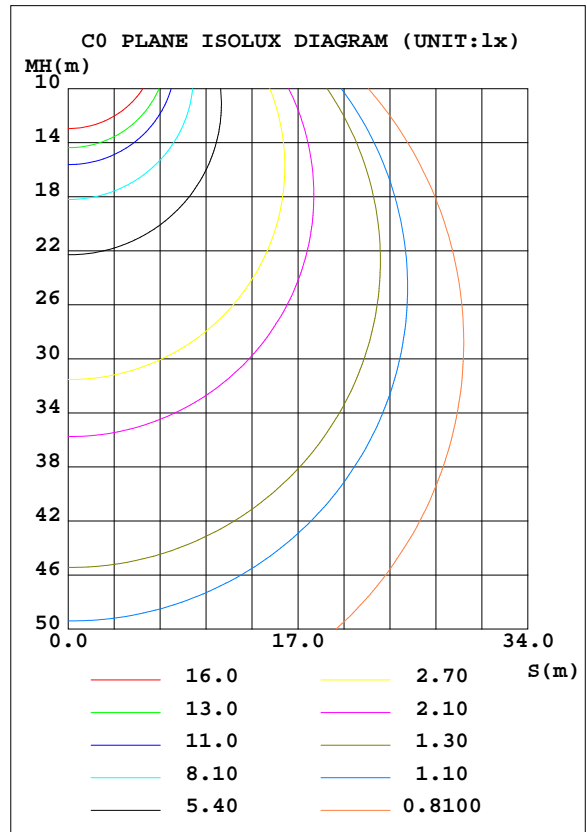
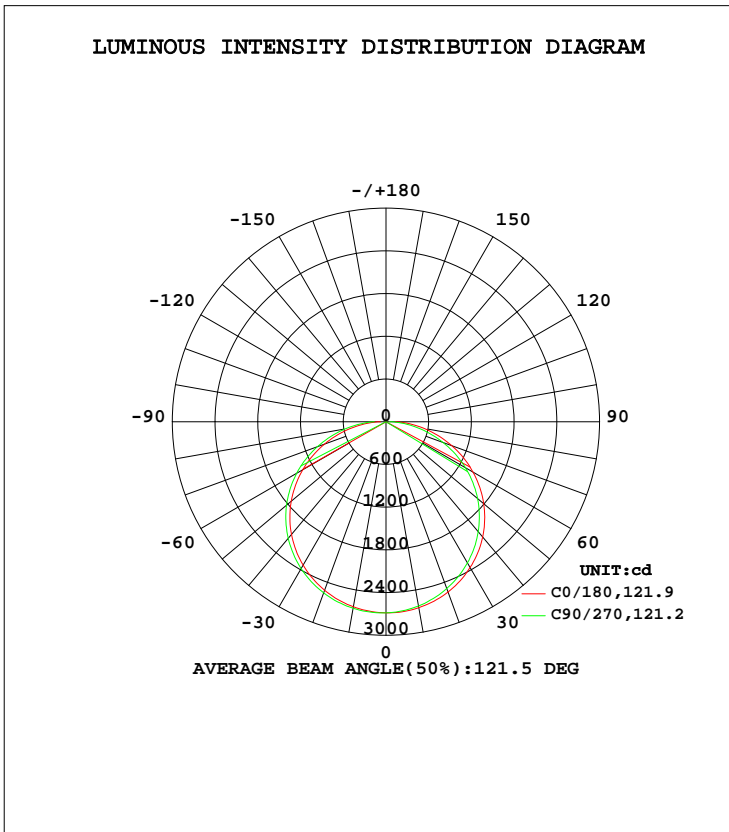


LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: LED PANEL LIGHT	TYPE:LNOVO-72W-SW-N-R	WEIGHT:
SPEC.:72W 4000K	DIM.: 1195*595	SERIAL No.:
MFR.: DIMON Technology Limited	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 120.00 lm/W			
MODEL	LNOVO-72W-SW-N-R	Imax(cd)	2686	S/MH(C0/180)	1.29
NOMINAL POWER(W)	72	LOR(%)	100.0	S/MH(C90/270)	1.32
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	8640.0	η UP, DN(C0-180)	0.0,48.8
NOMINAL FLUX(lm)	8640	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0,51.2
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	220	η down(%)	100.0	CIBSE SHR MAX	1.50



C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25DEG  
 Operators:  
 Test Date:2018-11-19

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000 SYSTEM V2.0.353  
 Humidity:65%  
 Test Distance:7.200m [K=1.0000]  
 Remarks:

Checker: DENNY

Assessor: JOE

**ZONAL FLUX DIAGRAM**

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	2653	2640	2628	2628	2639	2651	2660	2661	0- 10	254.3	254.3	2.94,2.94
20	2545	2520	2493	2498	2519	2540	2558	2561	10- 20	733.4	987.8	11.4,11.4
30	2364	2326	2288	2295	2327	2358	2383	2388	20- 30	1127	2115	24.5,24.5
40	2113	2064	2016	2024	2066	2105	2138	2144	30- 40	1390	3505	40.6,40.6
50	1792	1735	1680	1688	1738	1784	1824	1831	40- 50	1488	4993	57.8,57.8
60	1411	1350	1288	1297	1351	1404	1449	1457	50- 60	1407	6400	74.1,74.1
70	983.5	917.1	854.8	860.7	920.3	972.5	1025	1029	60- 70	1152	7552	87.4,87.4
80	542.2	472.5	419.8	418.8	479.0	530.6	581.3	585.6	70- 80	764.2	8316	96.2,96.2
90	133.4	80.30	47.27	43.37	78.42	124.3	165.4	169.8	80- 90	324.2	8640	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 4247.8 lm

%lum = 49.2%  
 %lamp = 49.2%

Conical surface Flux(120deg): 6399.7 lm

%lum = 74.1%  
 %lamp = 74.1%

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25DEG  
 Operators:  
 Test Date:2018-11-19

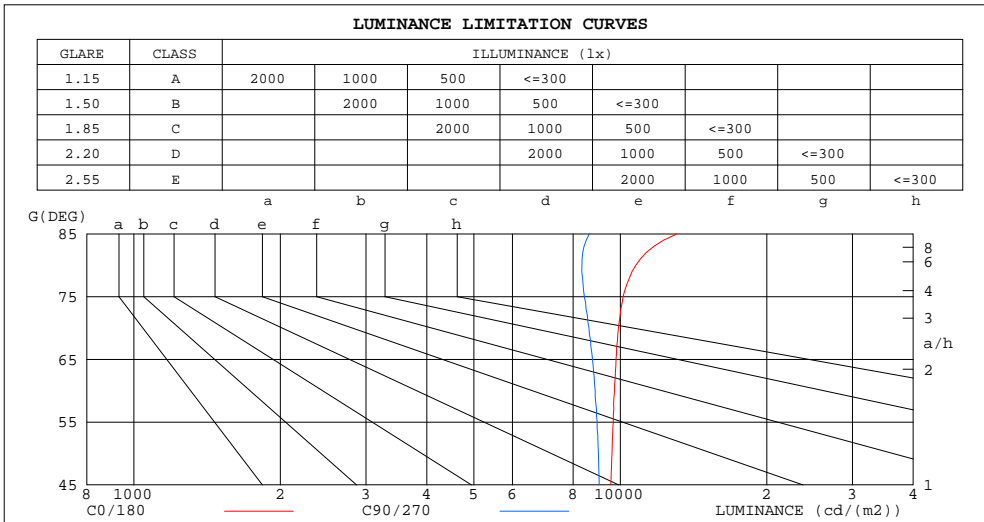
γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000 SYSTEM V2.0.353  
 Humidity:65%  
 Test Distance:7.200m [K=1.0000]  
 Remarks:

Checker: DENNY

Assessor: JOE

**LUMINANCE LIMITATION CURVES**

NAME: LED PANEL LIGHT	TYPE:LNOVO-72W-SW-N-R	WEIGHT:
SPEC.:72W 4000K	DIM.: 1195*595	SERIAL No.:
MFR.: DIMON Technology Limited	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	13085	8636
80	10765	8337
75	10134	8431
70	9914	8619
65	9798	8764
60	9732	8880
55	9671	8960
50	9611	9012
45	9559	9048

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25DEG  
 Operators:  
 Test Date:2018-11-19

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000 SYSTEM V2.0.353  
 Humidity:65%  
 Test Distance:7.200m [K=1.0000]  
 Remarks:

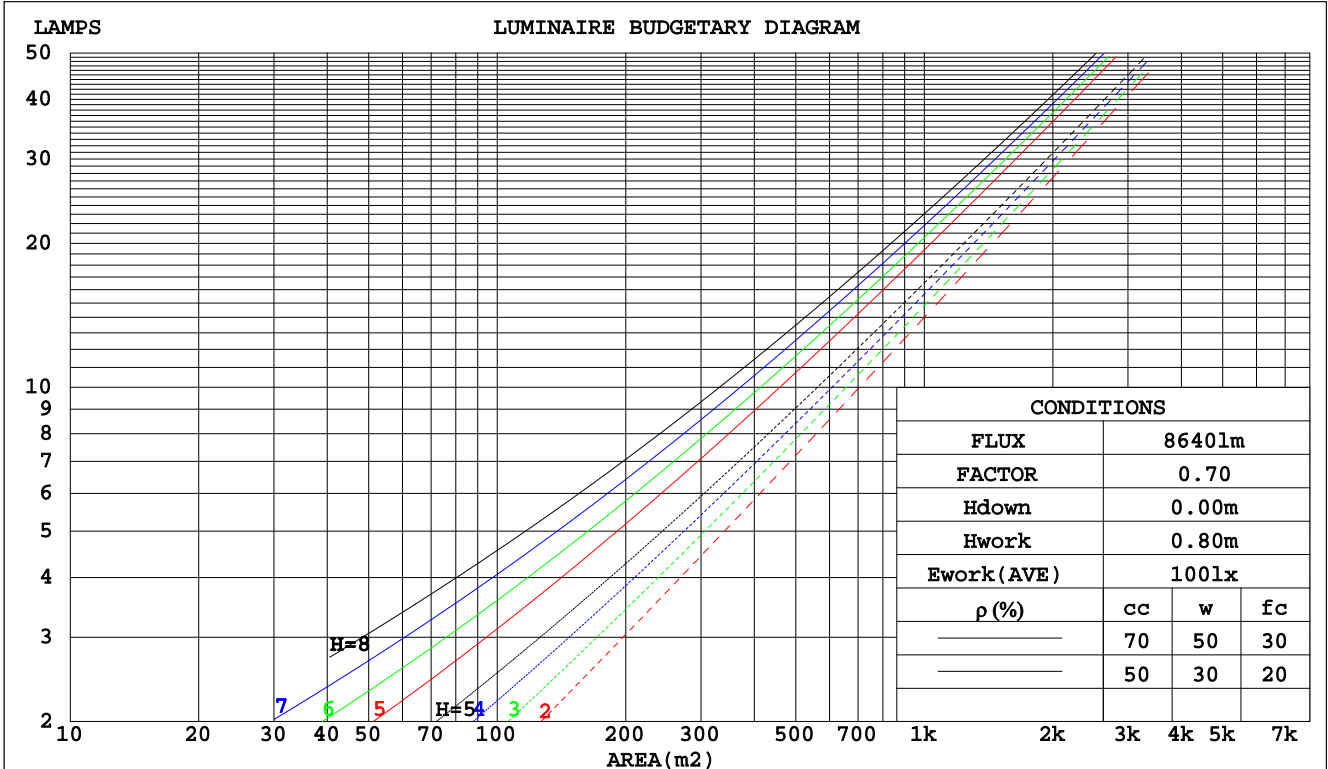
Checker: DENNY

Assessor: JOE

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: LED PANEL LIGHT	TYPE:LNOVO-72W-SW-N-R	WEIGHT:
SPEC.:72W 4000K	DIM.: 1195*595	SERIAL No.:
MFR.: DIMON Technology Limited	SUR.:	Shielding 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	1.00
1.0	1.02	.97	.93	.90	.96	.92	.96	.92	.89	.92	.89	.86	.88	.86	.83	.81
2.0	.88	.81	.75	.86	.79	.74	.83	.77	.72	.79	.75	.70	.76	.72	.69	.66
3.0	.77	.68	.61	.75	.67	.61	.72	.65	.60	.69	.64	.59	.67	.62	.57	.55
4.0	.68	.59	.51	.66	.58	.51	.64	.56	.50	.61	.55	.50	.59	.54	.49	.47
5.0	.60	.51	.44	.59	.50	.44	.57	.49	.43	.55	.48	.43	.53	.47	.42	.40
6.0	.54	.45	.38	.53	.44	.38	.51	.43	.38	.50	.43	.37	.48	.42	.37	.35
7.0	.49	.40	.34	.48	.40	.33	.47	.39	.33	.45	.38	.33	.44	.37	.33	.31
8.0	.45	.36	.30	.44	.36	.30	.43	.35	.30	.41	.34	.29	.40	.34	.29	.27
9.0	.41	.32	.27	.40	.32	.27	.39	.32	.27	.38	.31	.26	.37	.31	.26	.24
10.0	.38	.30	.24	.37	.29	.24	.36	.29	.24	.35	.29	.24	.34	.28	.24	.22



C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25DEG  
 Operators:  
 Test Date:2018-11-19

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000 SYSTEM V2.0.353  
 Humidity:65%  
 Test Distance:7.200m [K=1.0000]  
 Remarks:

Checker: DENNY

Assessor: JOE

WEC AND CCEC

NAME: LED PANEL LIGHT	TYPE:LNOVO-72W-SW-N-R	WEIGHT:
SPEC.:72W 4000K	DIM.: 1195*595	SERIAL No.:
MFR.: DIMON Technology Limited	SUR.:	Shielding 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	.342	.195	.062	.335	.191	.061	.322	.185	.059	.309	.178	.057	.298	.173	.056	
2.0	.313	.172	.053	.307	.169	.052	.295	.164	.051	.284	.159	.050	.274	.155	.049	
3.0	.286	.152	.046	.280	.150	.045	.269	.146	.044	.260	.142	.044	.251	.139	.043	
4.0	.261	.136	.040	.256	.134	.040	.247	.131	.039	.238	.128	.039	.230	.125	.038	
5.0	.240	.122	.035	.235	.121	.035	.227	.118	.035	.219	.116	.034	.212	.113	.034	
6.0	.221	.111	.032	.217	.110	.032	.210	.107	.031	.203	.105	.031	.196	.103	.031	
7.0	.205	.101	.029	.201	.100	.029	.195	.098	.028	.189	.097	.028	.183	.095	.028	
8.0	.191	.093	.026	.188	.092	.026	.182	.091	.026	.176	.089	.026	.171	.088	.026	
9.0	.178	.086	.024	.175	.086	.024	.170	.084	.024	.165	.083	.024	.160	.082	.024	
10.0	.167	.080	.022	.165	.080	.022	.160	.078	.022	.155	.077	.022	.151	.076	.022	

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	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.183	.156	.132	.156	.134	.113	.107	.092	.078	.061	.053	.046	.020	.017	.015	
2.0	.175	.132	.095	.150	.113	.082	.103	.078	.058	.059	.046	.034	.019	.015	.011	
3.0	.167	.114	.072	.144	.099	.063	.099	.069	.044	.057	.040	.026	.018	.013	.008	
4.0	.160	.101	.057	.137	.087	.049	.094	.061	.035	.055	.036	.020	.018	.012	.007	
5.0	.152	.091	.046	.131	.079	.040	.090	.055	.028	.052	.032	.017	.017	.011	.006	
6.0	.145	.083	.038	.124	.072	.033	.086	.050	.023	.050	.029	.014	.016	.010	.005	
7.0	.138	.076	.032	.118	.066	.028	.082	.046	.020	.048	.027	.012	.015	.009	.004	
8.0	.131	.070	.028	.113	.061	.024	.078	.043	.017	.045	.025	.010	.015	.008	.003	
9.0	.125	.065	.025	.107	.056	.022	.074	.040	.015	.043	.023	.009	.014	.008	.003	
10.0	.119	.061	.022	.102	.053	.019	.071	.037	.014	.041	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25DEG  
 Operators:  
 Test Date:2018-11-19

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000 SYSTEM V2.0.353  
 Humidity:65%  
 Test Distance:7.200m [K=1.0000]  
 Remarks:

Checker: DENNY

Assessor: JOE

UGR(Unified Glare Rating) Table

NAME: LED PANEL LIGHT		TYPE:LNOVO-72W-SW-N-R					WEIGHT:				
SPEC.:72W 4000K		DIM.: 1195*595					SERIAL No.:				
MFR.: DIMON Technology Limited		SUR.:					Shielding 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	13.3	14.9	13.6	15.1	15.3	13.0	14.5	13.2	14.7	15.0	
3H	15.1	16.6	15.4	16.9	17.1	14.7	16.1	15.0	16.4	16.6	
4H	16.0	17.4	16.3	17.6	17.9	15.4	16.8	15.7	17.0	17.3	
6H	16.7	18.1	17.1	18.3	18.6	16.0	17.3	16.3	17.6	17.9	
8H	17.1	18.4	17.4	18.6	18.9	16.2	17.5	16.6	17.8	18.1	
12H	17.4	18.6	17.7	18.9	19.2	16.4	17.6	16.7	17.9	18.2	
4H 2H	13.9	15.3	14.3	15.6	15.9	13.7	15.1	14.0	15.3	15.6	
3H	16.0	17.2	16.3	17.5	17.8	15.6	16.8	15.9	17.1	17.4	
4H	17.0	18.1	17.4	18.4	18.8	16.5	17.6	16.8	17.9	18.3	
6H	17.9	18.9	18.3	19.2	19.6	17.2	18.2	17.6	18.6	18.9	
8H	18.3	19.2	18.7	19.6	20.0	17.5	18.4	17.9	18.8	19.2	
12H	18.7	19.6	19.1	19.9	20.3	17.7	18.6	18.2	19.0	19.4	
8H 4H	17.3	18.2	17.7	18.6	19.0	16.9	17.8	17.3	18.2	18.6	
6H	18.4	19.2	18.8	19.6	20.0	17.8	18.6	18.2	19.0	19.4	
8H	18.9	19.6	19.4	20.1	20.5	18.2	18.9	18.7	19.3	19.8	
12H	19.5	20.1	19.9	20.5	21.0	18.6	19.2	19.1	19.6	20.1	
12H 4H	17.3	18.2	17.8	18.6	19.0	16.9	17.8	17.3	18.2	18.6	
6H	18.5	19.2	19.0	19.6	20.1	17.9	18.6	18.4	19.1	19.5	
8H	19.1	19.7	19.6	20.2	20.6	18.4	19.0	18.9	19.5	19.9	
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	+ 0.1 / - 0.3					+ 0.1 / - 0.4					

CIE Pub.117, 8640 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 7.5)

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25DEG  
 Operators:  
 Test Date:2018-11-19

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000 SYSTEM V2.0.353  
 Humidity:65%  
 Test Distance:7.200m [K=1.0000]  
 Remarks:

Checker: DENNY

Assessor: JOE

UTILIZATION FACTORS TABLE

NAME: LED PANEL LIGHT	TYPE:LNOVO-72W-SW-N-R	WEIGHT:
SPEC.:72W 4000K	DIM.: 1195*595	SERIAL No.:
MFR.: DIMON Technology Limited	SUR.:	Shielding 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	55	43	36	55	43	36	53	43	36	29
0.80	65	53	45	64	53	45	62	52	45	38
1.00	74	62	54	72	61	54	70	63	53	46
1.25	81	70	62	79	69	62	76	67	61	53
1.50	86	75	68	84	74	67	81	72	66	58
2.00	93	84	77	91	82	76	87	80	74	66
2.50	97	89	82	95	87	81	91	84	79	71
3.00	100	93	87	98	91	86	94	88	84	75
4.00	105	98	93	102	97	92	98	93	89	80
5.00	107	102	98	105	100	96	100	96	93	83
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25DEG  
 Operators:  
 Test Date:2018-11-19

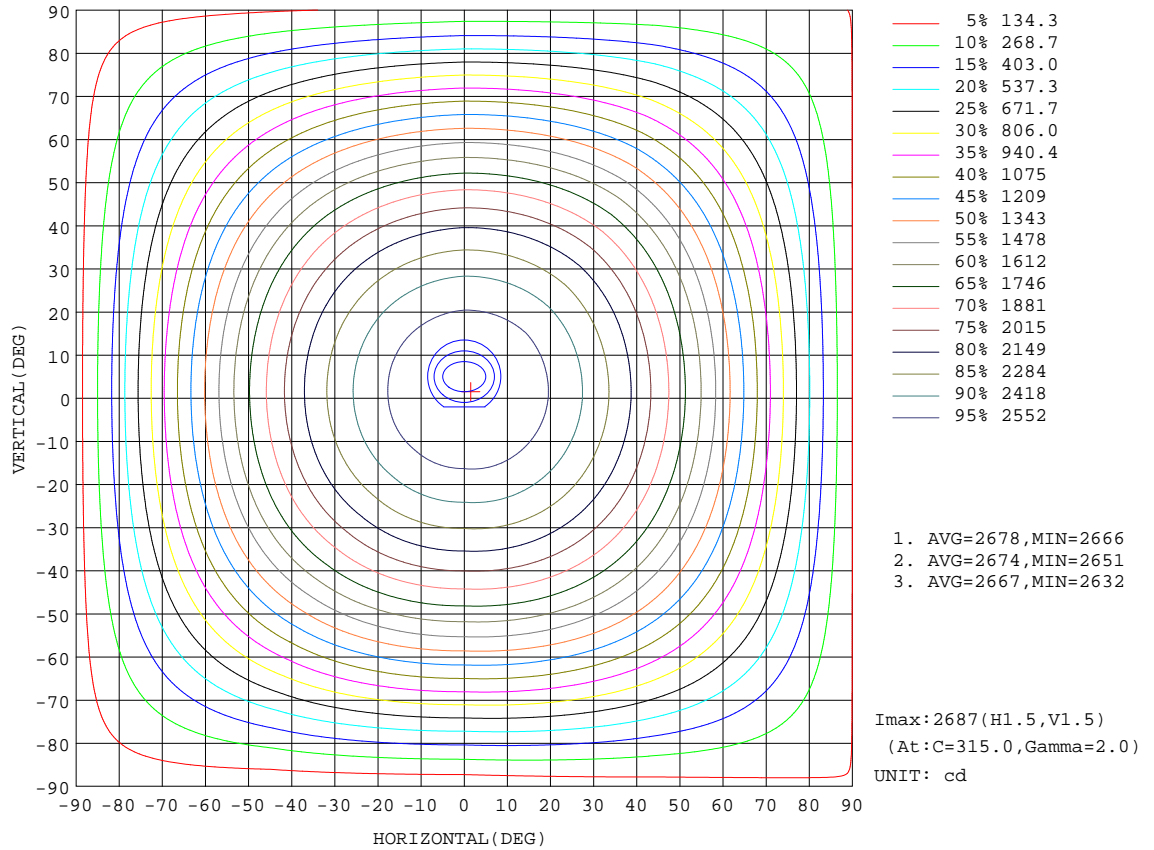
$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000 SYSTEM V2.0.353  
 Humidity:65%  
 Test Distance:7.200m [K=1.0000]  
 Remarks:

Checker: DENNY

Assessor: JOE

**ISOCANDELA DIAGRAM**

NAME: LED PANEL LIGHT	TYPE:LNOVO-72W-SW-N-R	WEIGHT:
SPEC.:72W 4000K	DIM.: 1195*595	SERIAL No.:
MFR.: DIMON Technology Limited	SUR.:	Shielding Angle:



C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25DEG  
 Operators:  
 Test Date:2018-11-19

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000 SYSTEM V2.0.353  
 Humidity:65%  
 Test Distance:7.200m [K=1.0000]  
 Remarks:

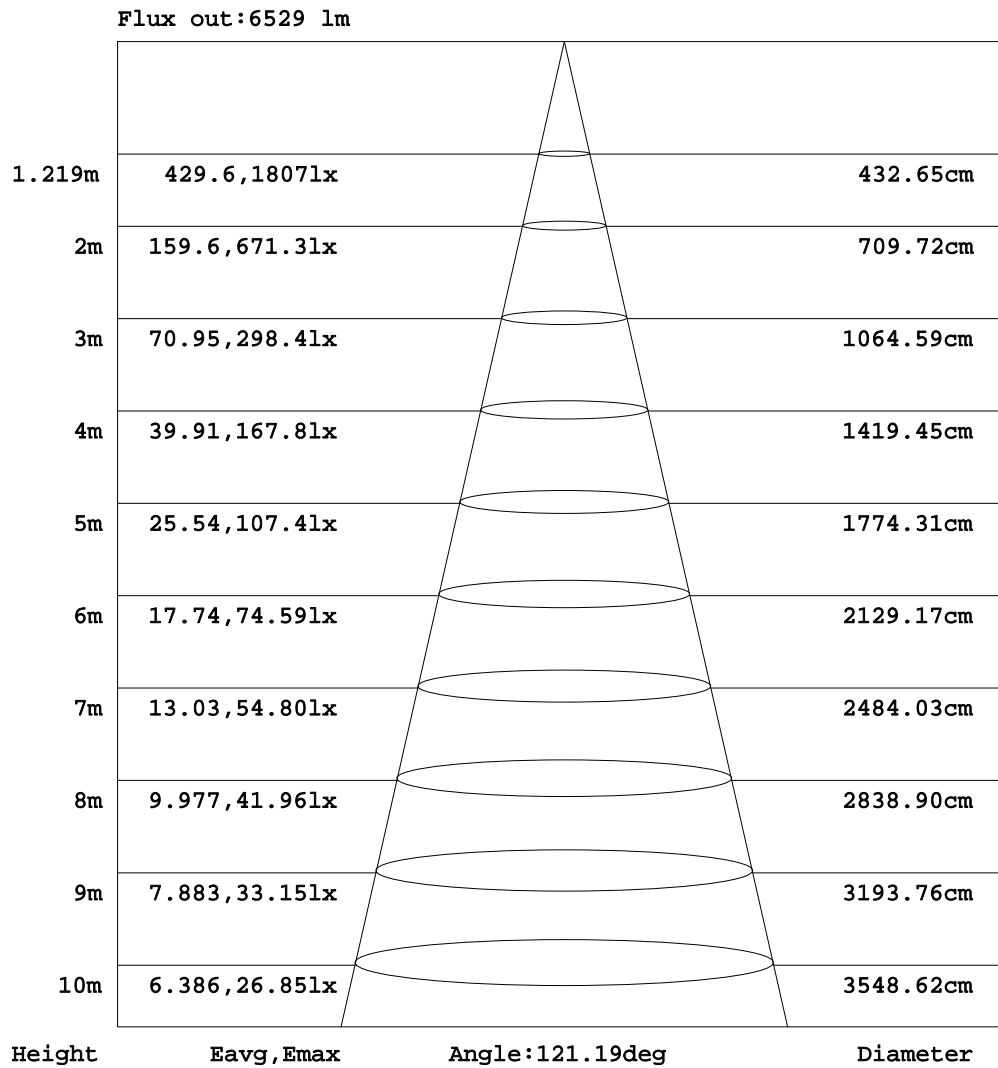
Checker: DENNY

Assessor: JOE



AAI Figure

NAME: LED PANEL LIGHT	TYPE:LNOVO-72W-SW-N-R	WEIGHT:
SPEC.:72W 4000K	DIM.: 1195*595	SERIAL No.:
MFR.: DIMON Technology Limited	SUR.:	Shielding 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: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25DEG  
 Operators:  
 Test Date:2018-11-19

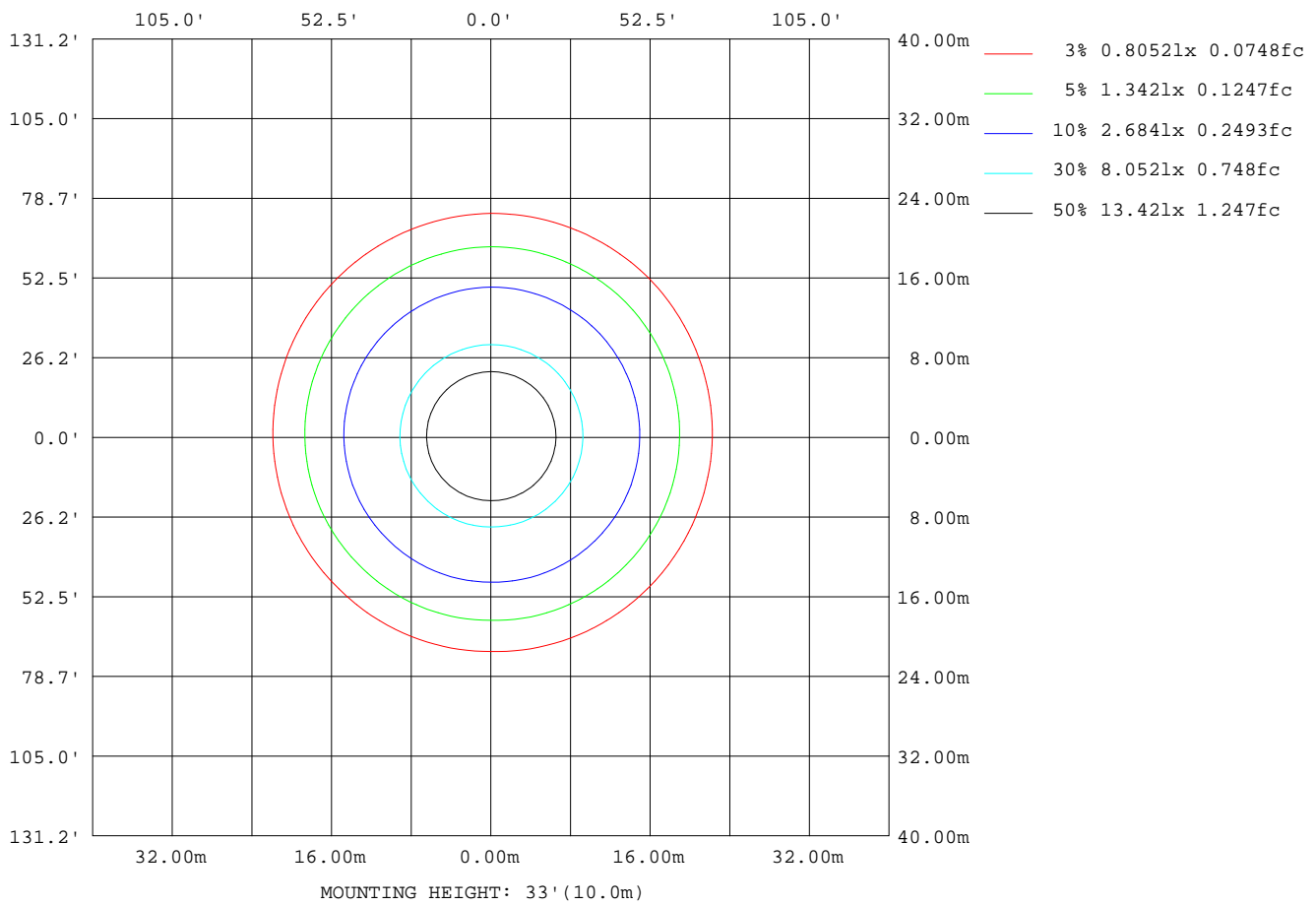
γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000 SYSTEM V2.0.353  
 Humidity:65%  
 Test Distance:7.200m [K=1.0000]  
 Remarks:

Checker: DENNY

Assessor: JOE

**ISOLUX DIAGRAM**

NAME: LED PANEL LIGHT	TYPE:LNOVO-72W-SW-N-R	WEIGHT:
SPEC.:72W 4000K	DIM.: 1195*595	SERIAL No.:
MFR.: DIMON Technology Limited	SUR.:	Shielding Angle:



C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25DEG  
 Operators:  
 Test Date:2018-11-19

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000 SYSTEM V2.0.353  
 Humidity:65%  
 Test Distance:7.200m [K=1.0000]  
 Remarks:

Checker: DENNY

Assessor: JOE

**LED Avg.L Report**

NAME: LED PANEL LIGHT	TYPE:LNOVO-72W-SW-N-R	WEIGHT:
SPEC.:72W 4000K	DIM.: 1195*595	SERIAL No.:
MFR.: DIMON Technology Limited	SUR.:	Shielding Angle:

AvgL	cd/m2
L_0~180(65)av	9545
L_0~180(75)av	9726
L_0~180(85)av	11874
L_90~270(65)av	9445
L_90~270(75)av	9566
L_90~270(85)av	11534
L_45(65)av	9507
L_45(75)av	9626
L_45(85)av	11578

Standard: GB/T 29293-2012

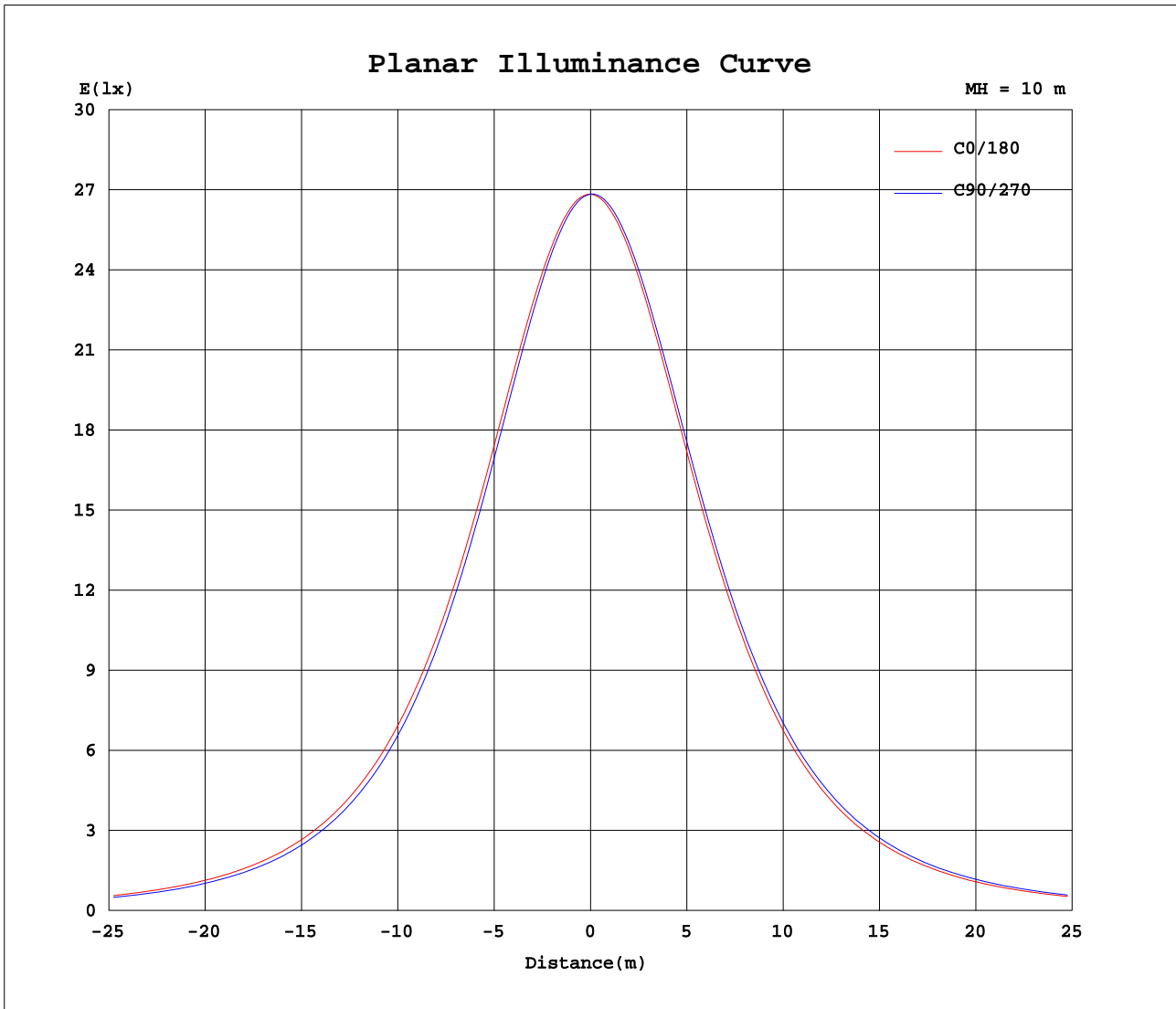
C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25DEG  
 Operators:  
 Test Date:2018-11-19

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000 SYSTEM V2.0.353  
 Humidity:65%  
 Test Distance:7.200m [K=1.0000]  
 Remarks:

Checker: DENNY

Assessor: JOE

Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature: 25DEG  
 Operators:  
 Test Date: 2018-11-19

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000 SYSTEM V2.0.353  
 Humidity: 65%  
 Test Distance: 7.200m [K=1.0000]  
 Remarks:

Checker: DENNY

Assessor: JOE

