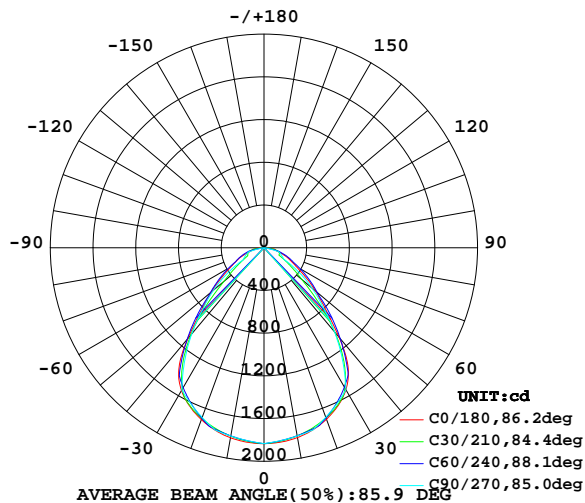


## LUMINAIRE PHOTOMETRIC TEST REPORT

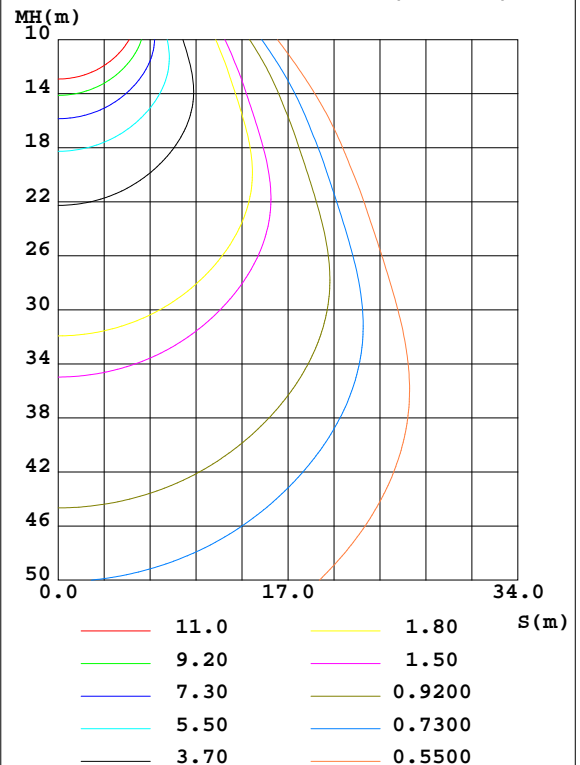
Test:U:229.9V I:0.1312A P:29.40W PF:0.9746 Lamp Flux:3657.81x1 lm		
NAME: IL-PD620US 3.500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:613*613	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 124.40 lm/W			
MODEL	IL-PD620US 3.500K	Imax(cd)	1835	S/MH(C0/180)	1.23
NOMINAL POWER(W)	30	LOR(%)	100.0	S/MH(C90/270)	1.20
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	3657.8	$\eta$ UP,DN(C0-180)	0.0,49.8
NOMINAL FLUX(lm)	3657.81	CIE CLASS	DIRECT	$\eta$ UP,DN(C180-360)	0.0,50.2
LAMPS INSIDE	1	$\eta$ up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	230	$\eta$ down(%)	100.0	CIBSE SHR MAX	1.25

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



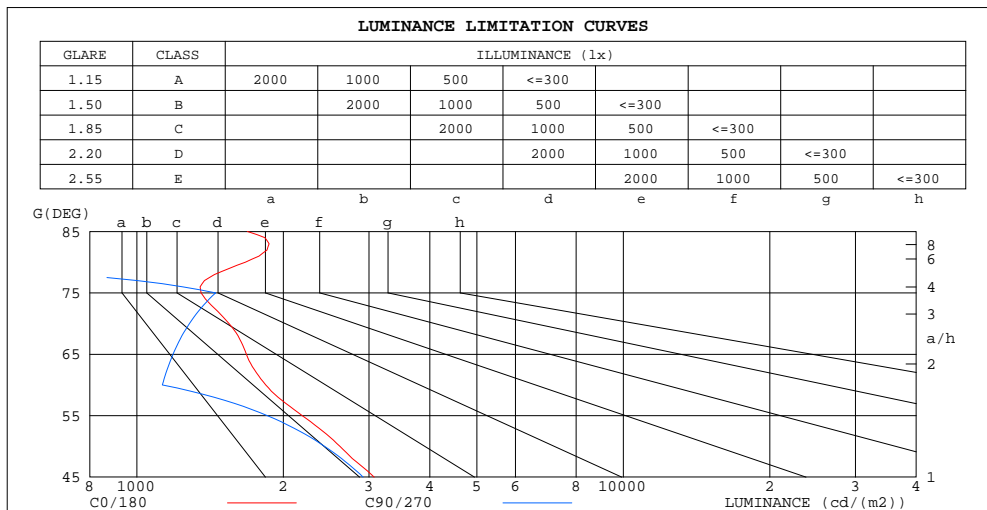
C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2023-11-06

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.286  
Humidity:65.0%  
Test Distance:13.420m [K=1.0000]  
Remarks: IL-PD620US 3.500K

ZONAL FLUX DIAGRAM  
AND LUMINANCE LIMITATION CURVES

## ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	$\%lum, lamp$
5	1827	1814	1812	1815	1828	1815	1812	1814	0- 5	43.59	43.59	1.19,1.19
10	1805	1787	1790	1789	1807	1789	1790	1787	5- 10	129.0	172.6	4.72,4.72
15	1766	1752	1768	1755	1769	1755	1768	1751	10- 15	210.5	383.1	10.5,10.5
20	1709	1709	1690	1713	1713	1714	1692	1707	15- 20	285.0	668.2	18.3,18.3
25	1635	1613	1613	1618	1641	1621	1615	1613	20- 25	348.0	1016	27.8,27.8
30	1535	1483	1535	1486	1545	1495	1539	1484	25- 30	396.8	1413	38.6,38.6
35	1375	1309	1282	1306	1392	1328	1296	1314	30- 35	420.2	1833	50.1,50.1
40	1095	1079	1029	1074	1109	1108	1052	1090	35- 40	401.3	2234	61.1,61.1
45	816.8	810.9	775.2	824.2	832.1	835.6	808.9	826.9	40- 45	346.2	2581	70.6,70.6
50	631.5	566.3	587.5	596.7	645.8	583.7	614.5	590.9	45- 50	277.3	2858	78.1,78.1
55	471.5	362.0	399.7	399.0	483.3	371.0	420.0	389.6	50- 55	215.5	3073	84,84
60	345.7	289.2	212.0	313.2	358.3	292.9	225.6	306.3	55- 60	163.7	3237	88.5,88.5
65	266.7	240.3	188.4	258.6	280.1	239.4	199.6	253.0	60- 65	128.7	3366	92,92
70	198.8	197.4	164.8	213.5	206.3	198.0	173.5	209.0	65- 70	112.2	3478	95.1,95.1
75	131.7	152.0	141.1	161.1	134.6	158.4	147.5	162.0	70- 75	94.05	3572	97.7,97.7
80	109.0	94.57	0	95.33	112.6	102.3	0	100.1	75- 80	62.77	3635	99.4,99.4
85	55.22	0	0	0	65.18	0	0	0	80- 85	20.77	3656	99.9,99.9
90	0.5027	0	0	0	0.8371	0	0	0	85- 90	2.250	3658	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		



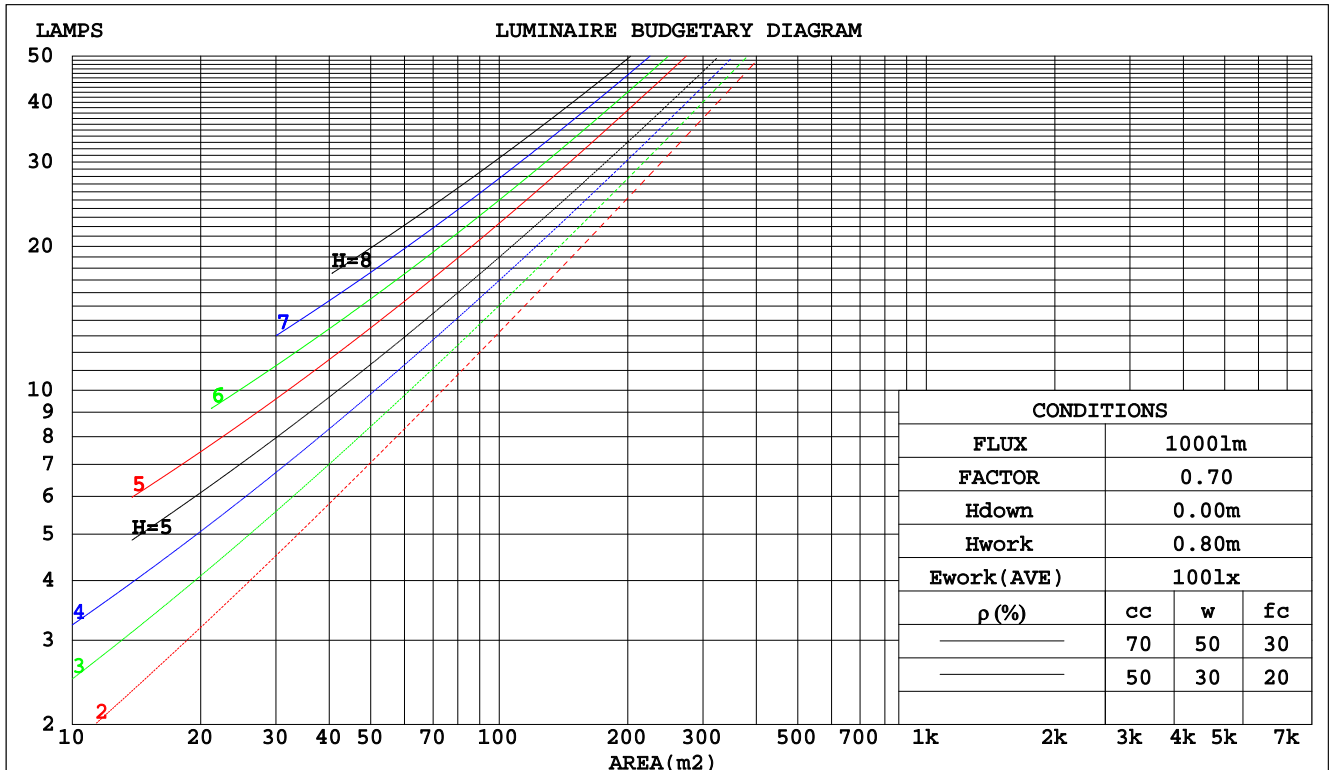
C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: DAMIN  
Test Date: 2023-11-06

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.286  
Humidity: 65.0%  
Test Distance: 13.420m [K=1.0000]  
Remarks: IL-PD620US 3.500K

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:229.9V I:0.1312A P:29.40W PF:0.9746 Lamp Flux:3657.81x1 lm		
NAME: IL-PD620US 3.500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:613*613	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	1.00
1.0	1.07	1.03	.00	1.04	1.01	.98	1.00	.98	.95	.96	.94	.92	.93	.91	.90	.88
2.0	.95	.89	.85	.93	.88	.84	.90	.86	.82	.87	.83	.80	.84	.81	.78	.76
3.0	.85	.78	.73	.84	.77	.72	.81	.75	.71	.78	.74	.70	.76	.72	.69	.67
4.0	.77	.69	.64	.76	.69	.63	.73	.67	.62	.71	.66	.61	.69	.65	.61	.59
5.0	.70	.62	.56	.69	.61	.56	.67	.60	.55	.65	.59	.55	.63	.58	.54	.52
6.0	.64	.56	.50	.63	.55	.50	.61	.54	.49	.60	.54	.49	.58	.53	.49	.47
7.0	.58	.51	.45	.58	.50	.45	.56	.49	.45	.55	.49	.44	.54	.48	.44	.42
8.0	.54	.46	.41	.53	.46	.41	.52	.45	.40	.51	.45	.40	.50	.44	.40	.38
9.0	.50	.42	.37	.49	.42	.37	.48	.42	.37	.47	.41	.37	.46	.41	.37	.35
10.0	.46	.39	.34	.46	.39	.34	.45	.38	.34	.44	.38	.34	.43	.38	.34	.32



C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2023-11-06

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.286  
Humidity:65.0%  
Test Distance:13.420m [K=1.0000]  
Remarks: IL-PD620US 3.500K

## WEC AND CCEC

Test:U:229.9V I:0.1312A P:29.40W PF:0.9746 Lamp Flux:3657.81x1 lm					
NAME: IL-PD620US 3.500K			TYPE:		WEIGHT:
SPEC.:			DIM.:		SERIAL No.:
MFR.: EVERFINE			SUR.:613*613		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						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.256	.146	.046	.249	.142	.045	.236	.136	.043	.225	.129	.042	.213	.124	.040	
2.0	.246	.135	.041	.240	.132	.041	.229	.127	.039	.218	.122	.038	.209	.118	.037	
3.0	.231	.123	.037	.226	.121	.036	.216	.117	.036	.207	.113	.035	.198	.110	.034	
4.0	.216	.112	.033	.212	.111	.033	.203	.108	.032	.195	.105	.032	.187	.102	.031	
5.0	.203	.103	.030	.198	.102	.030	.191	.099	.029	.184	.097	.029	.177	.095	.028	
6.0	.190	.095	.027	.186	.094	.027	.180	.092	.027	.173	.090	.026	.167	.088	.026	
7.0	.179	.088	.025	.175	.087	.025	.169	.086	.025	.164	.084	.024	.158	.082	.024	
8.0	.168	.082	.023	.166	.081	.023	.160	.080	.023	.155	.078	.023	.150	.077	.022	
9.0	.159	.077	.021	.157	.076	.021	.152	.075	.021	.147	.074	.021	.143	.072	.021	
10.0	.151	.072	.020	.148	.072	.020	.144	.070	.020	.140	.069	.020	.136	.068	.020	

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						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.177	.157	.139	.151	.134	.119	.103	.092	.082	.059	.054	.048	.019	.017	.016	
2.0	.166	.132	.104	.142	.114	.090	.098	.079	.062	.056	.046	.037	.018	.015	.012	
3.0	.157	.114	.080	.135	.098	.069	.092	.068	.049	.053	.040	.029	.017	.013	.009	
4.0	.149	.100	.063	.128	.087	.055	.088	.060	.039	.051	.035	.023	.016	.012	.008	
5.0	.141	.089	.051	.121	.077	.045	.084	.054	.032	.048	.032	.019	.016	.010	.006	
6.0	.134	.081	.043	.115	.070	.037	.080	.049	.026	.046	.029	.016	.015	.009	.005	
7.0	.128	.074	.036	.110	.064	.031	.076	.045	.022	.044	.026	.013	.014	.009	.004	
8.0	.122	.068	.031	.105	.059	.027	.073	.041	.019	.042	.024	.011	.014	.008	.004	
9.0	.116	.063	.027	.100	.055	.024	.069	.038	.017	.040	.023	.010	.013	.007	.003	
10.0	.111	.059	.024	.096	.051	.021	.066	.036	.015	.039	.021	.009	.013	.007	.003	

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2023-11-06

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.286  
 Humidity:65.0%  
 Test Distance:13.420m [K=1.0000]  
 Remarks: IL-PD620US 3.500K

## UGR(Unified Glare Rating) Table

Test:U:229.9V I:0.1312A P:29.40W PF:0.9746 Lamp Flux:3657.81x1 lm											
NAME: IL-PD620US 3.500K						TYPE:		WEIGHT:			
SPEC.:						DIM.:		SERIAL No.:			
MFR.: EVERFINE						SUR.:613*613		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		14.0	15.4	14.3	15.6	15.7	14.8	16.1	15.0	16.3	16.5
	3H	15.2	16.4	15.5	16.7	16.9	15.6	16.8	15.9	17.1	17.3
	4H	15.7	16.9	16.0	17.1	17.4	16.1	17.3	16.4	17.5	17.8
	6H	16.2	17.3	16.5	17.6	17.8	16.2	17.3	16.5	17.5	17.8
	8H	16.4	17.5	16.8	17.8	18.1	16.1	17.2	16.5	17.5	17.7
	12H	16.6	17.6	16.9	17.9	18.2	16.1	17.1	16.4	17.4	17.7
4H	2H	14.3	15.5	14.6	15.7	16.0	15.0	16.2	15.3	16.4	16.7
	3H	15.7	16.7	16.0	17.0	17.3	16.2	17.2	16.6	17.5	17.8
	4H	16.4	17.4	16.8	17.7	18.0	16.9	17.8	17.3	18.1	18.5
	6H	17.1	17.9	17.5	18.3	18.6	17.0	17.8	17.4	18.2	18.5
	8H	17.4	18.2	17.8	18.6	18.9	17.0	17.7	17.4	18.1	18.5
	12H	17.6	18.3	18.1	18.7	19.1	16.9	17.6	17.3	18.0	18.4
8H	4H	16.7	17.5	17.1	17.8	18.2	17.1	17.9	17.5	18.3	18.6
	6H	17.6	18.2	18.1	18.6	19.1	17.3	17.9	17.7	18.3	18.7
	8H	18.0	18.6	18.5	19.0	19.5	17.3	17.8	17.7	18.2	18.7
	12H	18.3	18.8	18.8	19.3	19.7	17.2	17.7	17.7	18.1	18.6
12H	4H	16.7	17.4	17.1	17.8	18.2	17.2	17.9	17.6	18.2	18.6
	6H	17.6	18.2	18.1	18.6	19.0	17.3	17.9	17.8	18.3	18.8
	8H	18.1	18.5	18.5	19.0	19.4	17.3	17.8	17.8	18.2	18.7
Variations with the observer position at spacings:											
S = 1.0H	+ 0.4 / - 0.5					+ 0.5 / - 0.6					
1.5H	+ 0.4 / - 0.4					+ 0.3 / - 0.8					
2.0H	+ 0.9 / - 1.0					+ 0.6 / - 2.0					

CIE Pub.117 Corrected 3658 lm Total Lamp Luminous Flux.(8log(F/F0) = 4.5)

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2023-11-06

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.286  
Humidity:65.0%  
Test Distance:13.420m [K=1.0000]  
Remarks: IL-PD620US 3.500K

## UTILIZATION FACTORS TABLE

Test:U:229.9V I:0.1312A P:29.40W PF:0.9746 Lamp Flux:3657.81x1 lm		
NAME: IL-PD620US 3.500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:613*613	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	67	57	52	67	57	51	66	57	51	46
0.80	77	67	61	76	67	61	74	66	61	55
1.00	84	75	69	83	75	69	81	76	68	63
1.25	91	82	76	89	81	76	87	80	75	69
1.50	95	87	81	93	86	81	91	84	80	73
2.00	100	93	88	99	92	88	95	90	86	79
2.50	103	97	92	101	96	91	98	93	89	82
3.00	106	100	96	104	99	95	100	96	93	85
4.00	109	105	101	107	103	100	103	100	97	89
5.00	111	107	104	109	105	102	104	102	99	91
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:25.3DEG  
Operators:DAMIN  
Test Date:2023-11-06

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.286  
Humidity:65.0%  
Test Distance:13.420m [K=1.0000]  
Remarks: IL-PD620US 3.500K

## ISOCANDELA DIAGRAM

Test:U:229.9V I:0.1312A P:29.40W PF:0.9746 Lamp Flux:3657.81x1 lm		
NAME: IL-PD620US 3.500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:613*613	PROTECTION ANGLE:

Conical surface Flux(90deg):

2580.6 lm

%lum = 70.6%

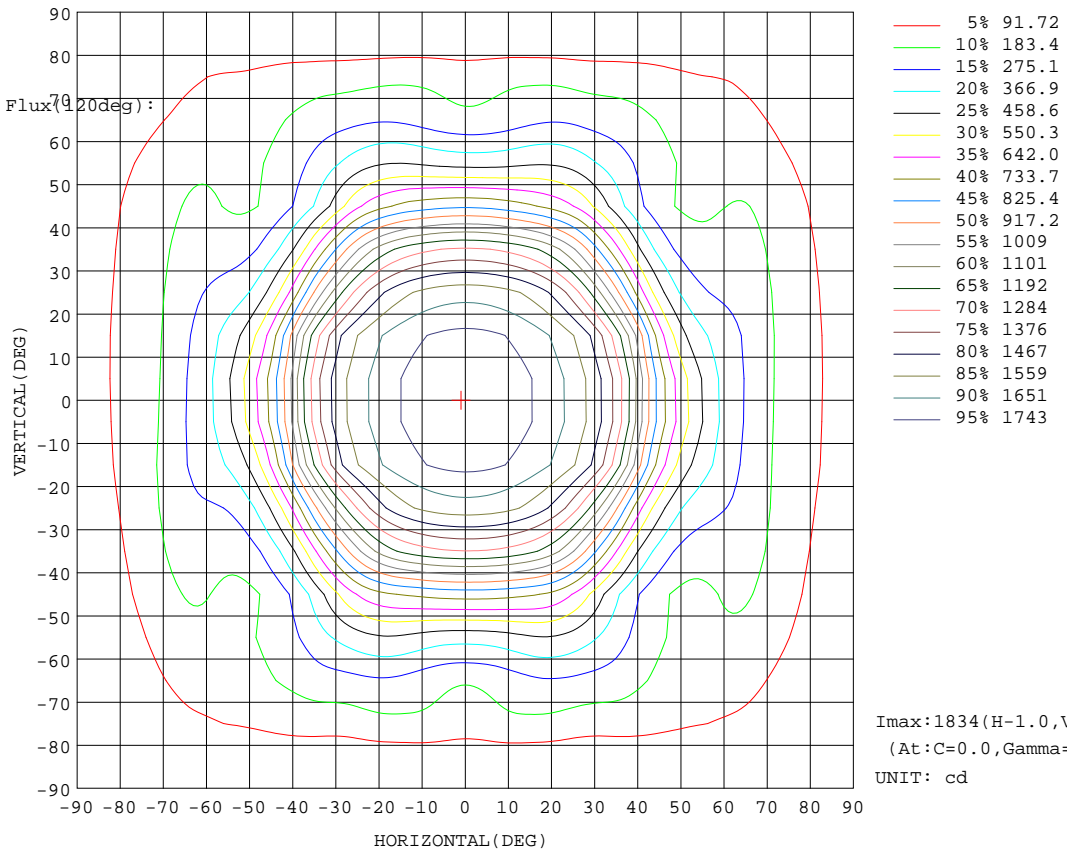
%lamp = 70.6%

Conical surface Flux(70deg):

3237.1 lm

%lum = 88.5%

%lamp = 88.5%



C Range: 0 - 360DEG

C Interval: 5.0DEG

Test Speed: HIGH

Temperature:25.3DEG

Operators:DAMIN

Test Date:2023-11-06

 $\gamma$  Range: 0 - 90DEG $\gamma$  Interval: 0.5DEG

Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.286

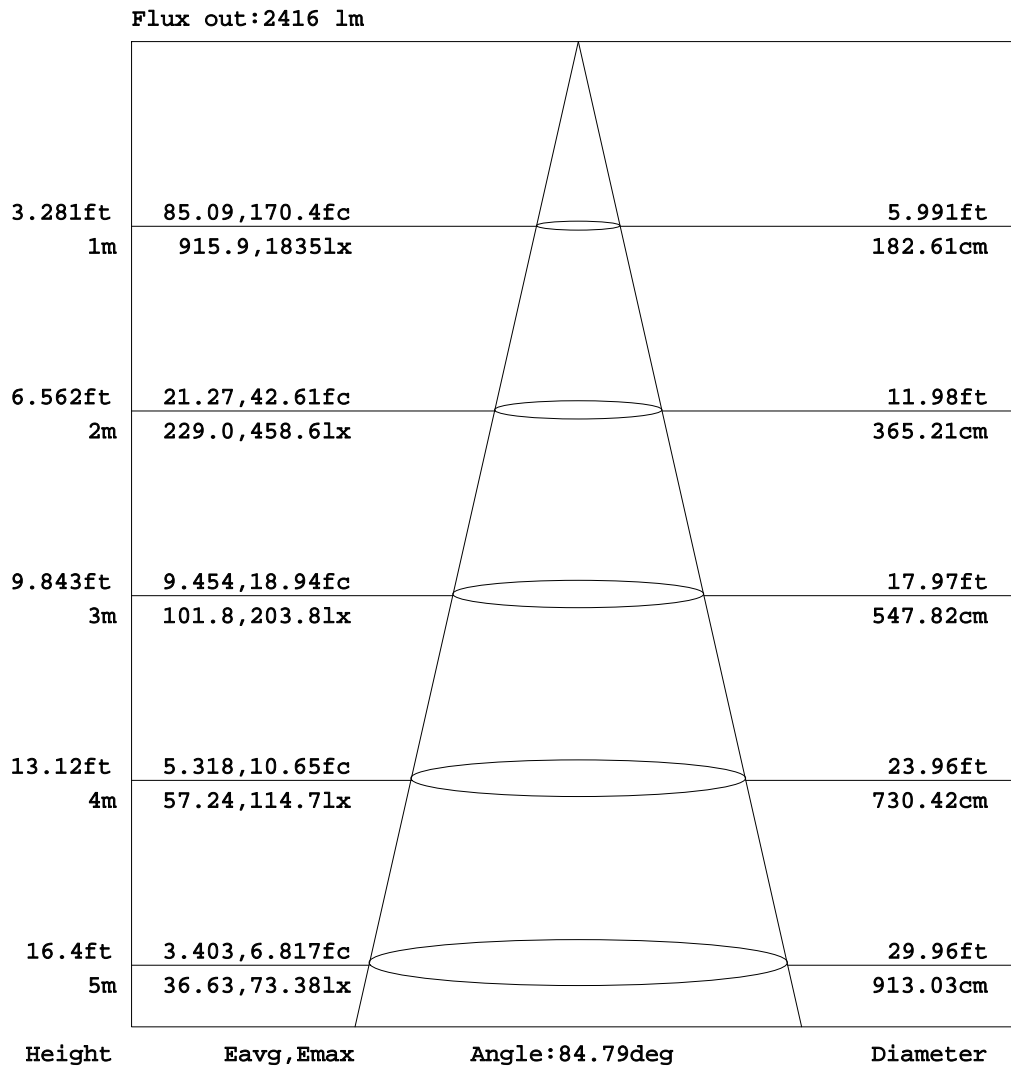
Humidity:65.0%

Test Distance:13.420m [K=1.0000]

Remarks: IL-PD620US 3.500K

### AAI Figure

Test:U:229.9V I:0.1312A P:29.40W PF:0.9746 Lamp Flux:3657.81x1 lm		
NAME: IL-PD620US 3.500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:613*613	PROTECTION ANGLE:



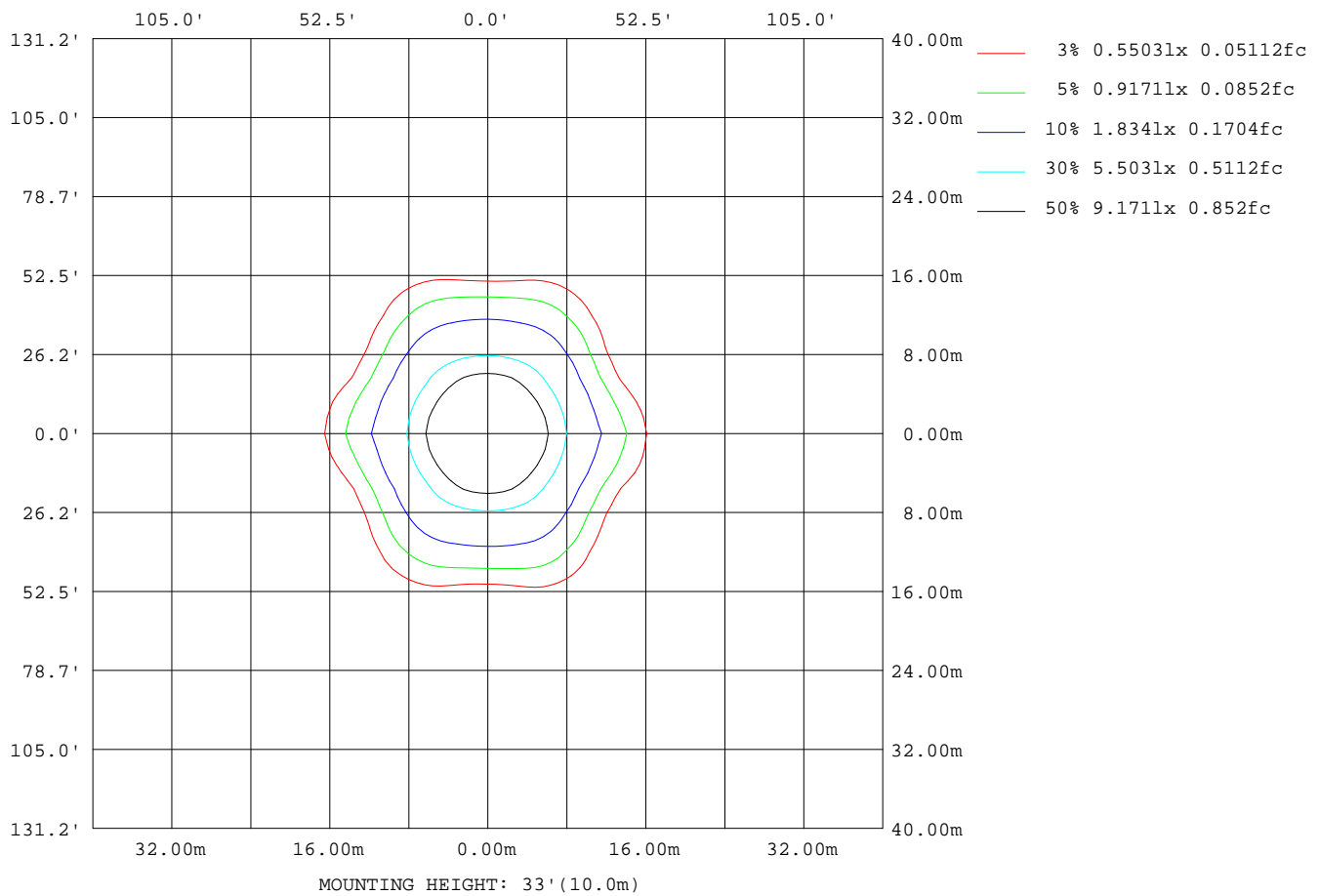
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2023-11-06

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.286  
Humidity:65.0%  
Test Distance:13.420m [K=1.0000]  
Remarks: IL-PD620US 3.500K

## ISOLUX DIAGRAM

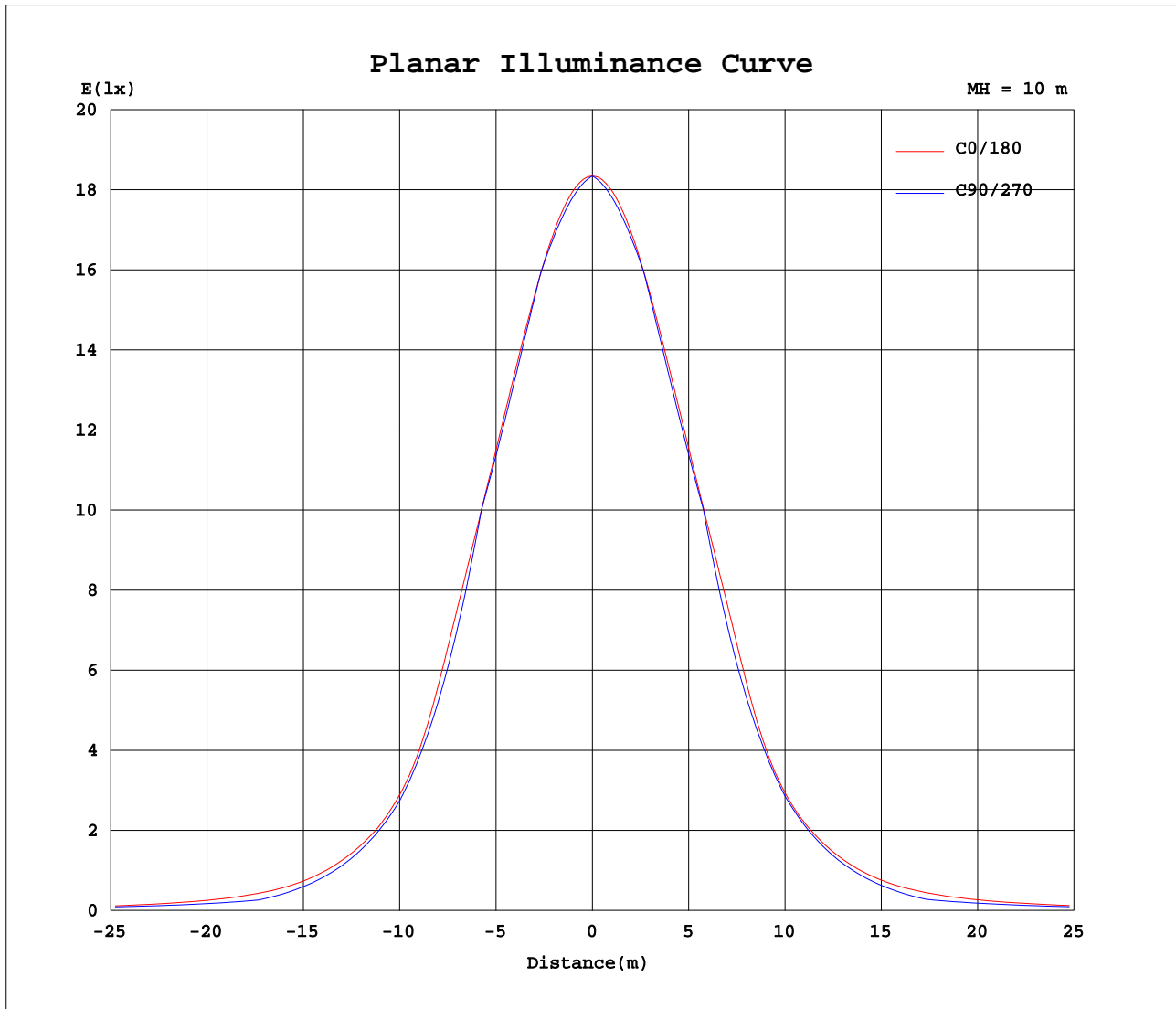
Test:U:229.9V I:0.1312A P:29.40W PF:0.9746 Lamp Flux:3657.8lx1 lm		
NAME: IL-PD620US 3.500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:613*613	PROTECTION ANGLE:



C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2023-11-06

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.286  
Humidity:65.0%  
Test Distance:13.420m [K=1.0000]  
Remarks: IL-PD620US 3.500K

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: DAMIN  
Test Date: 2023-11-06

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.286  
Humidity: 65.0%  
Test Distance: 13.420m [K=1.0000]  
Remarks: IL-PD620US 3.500K









Photometric Data Table [cd]

G/C	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0
0.0	1835	1835	1835	1835	1835	1835	1835	1835	1835	1835
2.5	1832	1831	1830	1830	1829	1828	1827	1827	1826	1826
5.0	1827	1825	1823	1821	1820	1818	1817	1816	1815	1814
7.5	1817	1814	1812	1810	1808	1806	1804	1803	1802	1802
10.0	1805	1801	1797	1795	1792	1790	1789	1788	1787	1787
12.5	1788	1783	1779	1776	1773	1771	1770	1770	1770	1770
15.0	1766	1760	1756	1752	1750	1749	1749	1749	1750	1752
17.5	1739	1733	1728	1725	1723	1723	1724	1725	1728	1731
20.0	1709	1702	1697	1694	1693	1693	1695	1699	1703	1709
22.5	1675	1666	1660	1657	1657	1660	1664	1670	1677	1667
25.0	1635	1625	1618	1616	1617	1621	1628	1637	1622	1613
27.5	1590	1577	1569	1566	1569	1576	1587	1572	1559	1553
30.0	1535	1518	1507	1505	1510	1521	1515	1494	1484	1483
32.5	1465	1442	1429	1427	1436	1452	1419	1400	1395	1402
35.0	1375	1343	1327	1326	1340	1334	1306	1291	1293	1309
37.5	1249	1215	1199	1202	1221	1195	1176	1168	1176	1203
40.0	1095	1059	1047	1056	1066	1041	1030	1032	1048	1079
42.5	942.2	906.2	892.4	901.4	895.8	879.9	876.2	887.2	911.2	942.4
45.0	816.8	779.3	761.4	764.9	740.5	723.7	720.8	736.1	776.7	810.9
47.5	717.0	676.9	654.3	643.4	610.7	589.0	578.8	603.6	647.4	685.3
50.0	631.5	589.7	563.3	538.5	502.9	477.1	465.7	491.3	529.4	566.3
52.5	551.0	513.5	488.5	453.4	414.3	383.3	383.1	399.4	426.0	456.0
55.0	471.5	444.5	426.8	386.7	343.5	312.4	313.7	322.6	338.1	362.0
57.5	401.1	385.0	376.6	336.9	290.4	262.9	256.0	257.7	267.7	321.8
60.0	345.7	337.0	331.0	299.4	256.2	225.8	209.0	202.3	240.8	289.2
62.5	302.6	297.0	294.3	272.7	237.5	199.9	170.9	184.3	219.6	262.3
65.0	266.7	263.3	265.0	255.5	225.1	182.5	156.8	172.9	202.7	240.3
67.5	233.9	233.4	240.5	240.5	216.4	174.1	155.6	165.5	189.9	222.4
70.0	198.8	200.7	214.3	219.1	206.2	175.0	155.1	160.6	178.7	197.4
72.5	163.2	166.2	185.0	191.5	188.7	168.7	152.5	152.4	158.9	173.7
75.0	131.7	135.5	153.1	162.5	163.7	154.6	142.2	135.6	140.7	152.0
77.5	114.6	117.1	125.8	132.8	136.3	133.6	124.6	119.1	123.4	132.0
80.0	109.0	105.2	105.1	105.8	108.5	109.8	105.3	102.7	106.7	94.57
82.5	91.23	75.96	76.85	79.29	80.45	85.44	81.51	55.00	32.80	12.81
85.0	55.22	42.98	47.48	49.77	48.20	25.19	0	0	0	0
87.5	11.26	18.92	17.79	0	0	0	0	0	0	0
90.0	0.5027	0	0	0	0	0	0	0	0	0
G/C	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0
0.0	1835	1835	1835	1835	1835	1835	1835	1835	1835	1835
2.5	1825	1825	1824	1824	1824	1823	1823	1823	1823	1823
5.0	1814	1813	1813	1813	1812	1812	1812	1812	1812	1812
7.5	1801	1801	1801	1801	1801	1801	1801	1801	1801	1801
10.0	1787	1787	1788	1788	1788	1789	1789	1790	1790	1790
12.5	1771	1772	1773	1775	1776	1777	1778	1778	1779	1779
15.0	1754	1756	1758	1761	1763	1765	1766	1767	1768	1768
17.5	1735	1738	1739	1735	1733	1731	1730	1729	1729	1730
20.0	1707	1701	1697	1694	1692	1691	1690	1690	1690	1691
22.5	1660	1655	1653	1652	1651	1651	1651	1651	1652	1652
25.0	1608	1607	1607	1608	1610	1611	1612	1613	1613	1613
27.5	1552	1554	1558	1563	1567	1570	1572	1574	1574	1574
30.0	1488	1496	1506	1515	1523	1529	1533	1535	1535	1535
32.5	1417	1434	1450	1466	1448	1433	1420	1412	1409	1411
35.0	1336	1364	1357	1341	1323	1307	1294	1285	1282	1285
37.5	1236	1241	1233	1217	1198	1181	1168	1159	1155	1158
40.0	1102	1114	1111	1095	1074	1056	1042	1032	1029	1031
42.5	971.3	988.5	989.6	974.2	951.5	930.8	915.6	905.9	901.9	904.7
45.0	843.7	865.6	870.0	855.3	829.8	806.3	789.7	779.6	775.2	778.1
47.5	720.1	745.7	751.9	738.4	722.1	707.1	694.1	685.4	681.4	683.5
50.0	601.2	629.1	651.1	660.3	647.2	625.5	605.7	592.8	587.5	590.5
52.5	487.1	547.0	580.4	588.7	573.8	545.6	518.2	500.3	493.6	497.6
55.0	427.6	482.4	513.0	518.7	501.7	467.1	431.4	408.0	399.7	404.8
57.5	379.0	424.5	448.9	450.6	430.7	389.8	345.5	315.9	305.9	312.2
60.0	339.5	373.7	388.4	384.3	360.7	313.8	260.2	224.0	212.0	219.8
62.5	306.8	329.9	332.1	321.9	308.3	276.0	236.9	209.6	200.2	205.8
65.0	279.1	292.8	290.5	290.0	281.7	256.5	224.0	198.3	188.4	194.9
67.5	249.8	259.3	256.3	257.6	253.8	236.0	210.6	186.8	176.6	183.9
70.0	218.4	226.2	222.1	224.5	225.4	214.3	196.6	175.4	164.8	173.0
72.5	189.3	194.0	188.3	191.1	196.4	191.7	182.1	163.9	152.9	162.0
75.0	162.6	162.5	154.6	157.5	166.8	168.5	167.2	152.4	141.1	151.0
77.5	137.8	131.9	112.2	104.1	102.2	95.82	89.22	77.55	70.57	76.84
80.0	76.31	56.11	38.78	27.91	19.53	11.30	5.021	1.141	0	1.130
82.5	0	0	0	0	0	0	0	0	0	0
85.0	0	0	0	0	0	0	0	0	0	0

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2023-11-06

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.286  
 Humidity: 65.0%  
 Test Distance: 13.420m [K=1.0000]  
 Remarks: IL-PD620US 3.500K

Photometric Data Table [cd]

87.5	0	0	0	0	0	0	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0
G/C	100.0	105.0	110.0	115.0	120.0	125.0	130.0	135.0	140.0	145.0
0.0	1835	1835	1835	1835	1835	1835	1835	1835	1835	1835
2.5	1823	1824	1824	1824	1824	1825	1825	1826	1827	1827
5.0	1812	1813	1813	1813	1814	1814	1815	1815	1816	1817
7.5	1801	1802	1801	1802	1802	1803	1803	1803	1804	1805
10.0	1790	1790	1790	1789	1789	1789	1789	1789	1790	1790
12.5	1779	1778	1777	1777	1776	1775	1774	1773	1773	1773
15.0	1767	1766	1765	1763	1761	1759	1757	1755	1754	1753
17.5	1731	1732	1735	1738	1742	1742	1739	1735	1732	1729
20.0	1691	1693	1694	1697	1700	1705	1712	1713	1708	1704
22.5	1652	1652	1653	1654	1656	1659	1664	1672	1683	1676
25.0	1612	1612	1611	1610	1610	1610	1613	1618	1629	1643
27.5	1573	1571	1568	1565	1561	1558	1556	1557	1563	1577
30.0	1533	1529	1524	1517	1509	1500	1492	1486	1486	1498
32.5	1419	1433	1449	1468	1454	1436	1418	1402	1396	1404
35.0	1293	1306	1323	1343	1360	1365	1334	1306	1292	1293
37.5	1167	1180	1197	1218	1235	1241	1231	1197	1174	1169
40.0	1040	1054	1073	1095	1112	1116	1101	1074	1045	1034
42.5	913.9	928.3	949.2	974.3	992.4	994.1	976.4	945.7	911.8	893.0
45.0	787.6	802.8	826.8	855.5	875.7	877.2	857.6	824.2	786.9	749.2
47.5	691.3	702.5	718.5	739.3	763.0	765.3	743.7	707.8	667.2	622.1
50.0	602.2	620.2	643.0	661.5	666.6	658.3	635.2	596.7	555.0	509.1
52.5	513.9	539.5	568.9	589.8	594.3	576.7	531.0	491.5	452.8	416.3
55.0	426.4	460.4	496.1	519.1	523.9	507.3	464.6	399.0	364.5	339.4
57.5	339.7	382.6	424.3	449.3	455.8	443.6	408.0	351.5	293.5	274.1
60.0	253.6	305.9	353.4	380.4	390.3	386.0	360.6	313.2	263.4	218.3
62.5	230.7	268.6	301.1	314.6	328.0	335.0	321.6	282.6	240.7	199.5
65.0	218.5	250.3	276.3	284.8	285.2	291.7	289.2	258.6	224.2	188.4
67.5	205.8	231.0	250.2	254.6	252.7	259.3	257.9	240.3	212.8	181.6
70.0	192.6	210.7	223.6	223.8	220.1	226.9	225.6	213.5	202.5	177.2
72.5	178.9	189.5	196.3	192.7	187.6	194.8	195.1	186.7	177.0	167.0
75.0	164.9	167.6	168.5	161.4	155.1	162.9	166.3	161.1	152.7	144.6
77.5	88.01	95.52	103.8	107.8	113.3	131.5	138.8	136.4	129.5	123.9
80.0	4.953	11.26	19.87	28.87	39.11	55.91	76.38	95.33	107.3	104.6
82.5	0	0	0	0	0	0	0	12.92	32.85	55.55
85.0	0	0	0	0	0	0	0	0	0	0
87.5	0	0	0	0	0	0	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0
G/C	150.0	155.0	160.0	165.0	170.0	175.0	180.0	185.0	190.0	195.0
0.0	1835	1835	1835	1835	1835	1835	1835	1835	1835	1835
2.5	1828	1829	1829	1830	1831	1832	1833	1832	1831	1830
5.0	1818	1819	1821	1822	1824	1826	1828	1826	1824	1822
7.5	1806	1808	1809	1811	1814	1816	1819	1816	1814	1811
10.0	1791	1793	1795	1797	1800	1803	1807	1803	1800	1797
12.5	1773	1774	1776	1779	1782	1786	1790	1786	1782	1779
15.0	1752	1752	1754	1756	1759	1763	1769	1763	1759	1756
17.5	1728	1727	1727	1729	1732	1737	1743	1737	1732	1729
20.0	1701	1698	1698	1698	1701	1706	1713	1706	1701	1699
22.5	1670	1665	1663	1663	1666	1671	1679	1671	1666	1664
25.0	1634	1627	1623	1622	1625	1631	1641	1632	1626	1623
27.5	1594	1583	1576	1574	1576	1584	1597	1585	1578	1576
30.0	1522	1530	1519	1514	1516	1527	1545	1529	1519	1518
32.5	1426	1461	1444	1435	1439	1453	1479	1457	1446	1444
35.0	1311	1340	1346	1334	1338	1358	1392	1365	1352	1351
37.5	1179	1200	1228	1214	1215	1231	1266	1240	1231	1238
40.0	1036	1051	1081	1075	1066	1076	1109	1084	1083	1101
42.5	888.7	896.6	917.0	920.9	908.2	921.6	958.1	930.7	925.9	946.3
45.0	736.7	740.3	754.7	777.2	770.6	789.7	832.1	800.3	791.2	806.6
47.5	591.1	599.6	617.7	640.5	651.8	681.8	732.2	694.3	675.8	671.9
50.0	475.1	482.7	501.7	527.5	553.9	591.4	645.8	606.2	582.6	559.9
52.5	392.0	387.0	408.1	437.7	473.6	511.9	563.1	527.7	505.3	470.4
55.0	323.1	312.9	333.4	368.9	410.9	443.1	483.3	458.3	442.9	400.9
57.5	263.5	260.7	275.0	317.5	364.9	387.6	414.1	398.5	391.3	349.0
60.0	215.3	220.5	234.6	281.3	327.1	344.2	358.3	348.8	342.2	309.3
62.5	176.7	192.7	217.3	257.2	297.5	309.8	315.9	309.1	303.6	280.1
65.0	162.3	175.6	209.2	245.2	275.2	281.3	280.1	275.9	273.2	259.7
67.5	160.3	168.2	204.9	239.1	255.6	254.5	245.0	243.5	246.0	241.9
70.0	158.4	168.8	198.4	223.5	231.2	222.4	206.3	207.4	216.4	219.5
72.5	154.6	163.2	184.4	197.3	200.2	186.2	167.3	169.6	184.2	191.5
75.0	143.2	151.4	162.9	166.5	164.5	151.8	134.6	137.3	153.1	163.6
77.5	124.6	132.7	138.1	136.1	132.1	127.5	118.4	120.0	130.6	136.6

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2023-11-06

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.286  
 Humidity: 65.0%  
 Test Distance: 13.420m [K=1.0000]  
 Remarks: IL-PD620US 3.500K

Photometric Data Table [cd]

80.0	105.7	110.3	111.6	107.6	106.0	109.0	112.6	113.8	117.8	113.1
82.5	82.79	87.37	83.30	78.62	75.20	78.30	96.45	98.21	94.26	87.98
85.0	0	26.03	49.82	47.56	44.49	42.89	65.18	67.02	62.58	55.14
87.5	0	0	0	0	15.93	17.81	15.41	24.81	19.71	0
90.0	0	0	0	0	0	0	0.8371	0	0	0
G/C	200.0	205.0	210.0	215.0	220.0	225.0	230.0	235.0	240.0	245.0
0.0	1835	1835	1835	1835	1835	1835	1835	1835	1835	1835
2.5	1829	1829	1828	1827	1827	1826	1825	1825	1824	1824
5.0	1821	1819	1818	1817	1816	1815	1814	1814	1814	1813
7.5	1809	1807	1806	1805	1804	1803	1802	1802	1801	1801
10.0	1794	1793	1791	1790	1789	1789	1789	1789	1789	1789
12.5	1776	1774	1773	1773	1773	1773	1774	1774	1775	1776
15.0	1754	1753	1752	1753	1754	1755	1757	1759	1760	1762
17.5	1728	1727	1728	1730	1732	1735	1738	1742	1742	1738
20.0	1698	1699	1701	1704	1709	1714	1712	1705	1700	1697
22.5	1664	1666	1670	1676	1683	1673	1665	1660	1657	1655
25.0	1624	1629	1636	1645	1630	1621	1615	1613	1612	1612
27.5	1579	1586	1596	1581	1568	1562	1560	1561	1564	1567
30.0	1523	1534	1528	1507	1496	1495	1499	1505	1513	1520
32.5	1453	1469	1437	1418	1412	1417	1430	1445	1459	1472
35.0	1364	1356	1328	1314	1315	1328	1352	1378	1367	1350
37.5	1258	1226	1203	1195	1203	1228	1256	1254	1243	1227
40.0	1113	1082	1066	1064	1080	1108	1122	1127	1119	1105
42.5	945.8	925.5	918.4	924.9	945.8	969.6	991.3	1001	996.5	982.7
45.0	781.2	765.4	762.4	778.7	808.4	835.6	862.0	877.3	875.4	861.7
47.5	643.3	621.9	613.3	640.2	677.6	706.4	735.3	756.0	756.2	742.0
50.0	526.1	502.0	492.6	519.5	555.9	583.7	612.4	636.8	654.5	661.8
52.5	431.1	403.5	403.7	421.3	446.5	469.5	494.2	551.4	582.4	588.7
55.0	356.8	326.4	330.7	339.8	353.0	371.0	431.5	483.4	512.8	517.6
57.5	300.4	275.2	271.1	271.8	278.6	328.2	379.4	421.8	446.0	448.2
60.0	263.9	237.2	222.1	214.8	249.8	292.9	336.2	367.3	382.5	380.2
62.5	245.0	210.6	184.4	195.4	226.8	263.4	300.2	319.8	322.7	315.8
65.0	231.1	192.5	168.8	182.6	208.8	239.4	269.8	279.9	282.7	286.3
67.5	220.1	181.8	164.8	173.2	194.9	219.8	242.0	251.8	253.4	256.8
70.0	208.4	179.6	161.3	165.6	183.0	198.0	215.0	224.3	224.6	227.2
72.5	190.2	171.9	156.1	155.7	164.5	177.5	189.9	197.3	196.2	197.8
75.0	165.3	157.5	145.8	139.8	147.1	158.4	166.9	170.8	168.3	168.6
77.5	139.0	136.9	130.2	124.6	130.4	140.4	145.4	144.9	128.0	114.4
80.0	111.8	113.4	112.7	109.9	114.4	102.3	81.65	61.53	44.22	30.76
82.5	83.09	89.13	89.91	59.88	35.19	13.86	0	0	0	0
85.0	49.66	26.34	0	0	0	0	0	0	0	0
87.5	0	0	0	0	0	0	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0
G/C	250.0	255.0	260.0	265.0	270.0	275.0	280.0	285.0	290.0	295.0
0.0	1835	1835	1835	1835	1835	1835	1835	1835	1835	1835
2.5	1824	1824	1823	1823	1823	1823	1823	1823	1824	1824
5.0	1813	1812	1812	1812	1812	1812	1812	1812	1812	1813
7.5	1801	1801	1801	1801	1801	1801	1801	1801	1801	1801
10.0	1789	1790	1790	1790	1790	1790	1789	1789	1788	1788
12.5	1777	1778	1779	1779	1779	1778	1778	1777	1776	1775
15.0	1764	1766	1767	1767	1768	1767	1766	1764	1763	1760
17.5	1735	1732	1731	1730	1730	1729	1730	1731	1732	1735
20.0	1695	1693	1692	1692	1692	1691	1691	1691	1692	1694
22.5	1654	1654	1654	1654	1653	1653	1652	1652	1651	1652
25.0	1613	1614	1615	1615	1615	1614	1613	1611	1610	1608
27.5	1571	1574	1576	1577	1577	1576	1574	1571	1568	1563
30.0	1527	1533	1537	1539	1539	1537	1534	1530	1524	1517
32.5	1454	1439	1427	1420	1417	1418	1425	1435	1450	1468
35.0	1332	1317	1306	1299	1296	1297	1302	1312	1327	1344
37.5	1210	1195	1184	1177	1174	1175	1180	1189	1203	1219
40.0	1088	1072	1062	1055	1052	1053	1057	1066	1079	1096
42.5	967.4	950.6	939.6	933.3	930.6	930.7	934.6	942.6	956.0	972.7
45.0	847.1	829.0	817.5	811.5	808.9	808.6	811.9	819.3	833.2	851.0
47.5	737.2	729.2	720.5	714.8	711.7	711.3	713.8	718.3	723.2	730.9
50.0	657.7	644.8	629.8	619.5	614.5	615.3	622.0	633.2	645.3	651.9
52.5	580.5	561.9	540.0	524.4	517.3	519.5	531.0	550.0	569.6	581.1
55.0	505.3	480.5	451.1	429.5	420.0	423.9	440.8	468.5	495.8	512.3
57.5	431.8	400.3	362.9	334.8	322.8	328.6	351.5	388.5	423.7	445.2
60.0	359.7	321.2	275.5	240.4	225.6	233.4	263.0	309.9	353.2	379.4
62.5	306.5	281.3	249.3	223.8	212.6	217.9	238.4	271.7	301.6	316.9
65.0	280.5	260.6	233.5	210.2	199.6	205.5	224.7	253.0	277.3	287.7
67.5	253.7	239.1	217.2	196.5	186.6	193.1	210.6	233.4	252.0	258.3
70.0	226.3	216.8	200.5	182.7	173.5	180.6	196.1	212.9	226.0	228.6

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2023-11-06

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.286  
 Humidity: 65.0%  
 Test Distance: 13.420m [K=1.0000]  
 Remarks: IL-PD620US 3.500K

## Photometric Data Table [cd]

72.5	198.6	193.8	183.4	168.8	160.5	168.1	181.3	191.7	199.5	198.9
75.0	170.5	170.3	165.9	154.9	147.5	155.5	166.1	169.8	172.4	169.2
77.5	105.1	96.93	88.39	78.77	73.76	79.13	88.59	96.85	106.6	114.6
80.0	20.11	11.43	4.974	1.158	0	1.164	4.985	11.42	20.41	30.78
82.5	0	0	0	0	0	0	0	0	0	0
85.0	0	0	0	0	0	0	0	0	0	0
87.5	0	0	0	0	0	0	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0
G/C	300.0	305.0	310.0	315.0	320.0	325.0	330.0	335.0	340.0	345.0
0.0	1835	1835	1835	1835	1835	1835	1835	1835	1835	1835
2.5	1824	1824	1825	1825	1826	1827	1827	1828	1829	1830
5.0	1813	1813	1814	1814	1815	1816	1817	1818	1820	1821
7.5	1801	1801	1801	1802	1802	1803	1804	1806	1808	1810
10.0	1788	1787	1787	1787	1787	1788	1789	1790	1792	1794
12.5	1773	1772	1771	1770	1770	1770	1770	1771	1773	1775
15.0	1758	1756	1753	1751	1750	1749	1748	1749	1750	1752
17.5	1739	1738	1734	1730	1727	1725	1723	1722	1723	1724
20.0	1697	1701	1706	1707	1702	1698	1694	1692	1691	1693
22.5	1653	1655	1659	1666	1675	1668	1662	1657	1656	1656
25.0	1607	1607	1608	1613	1621	1634	1625	1618	1614	1614
27.5	1559	1555	1552	1553	1557	1569	1582	1572	1565	1563
30.0	1508	1499	1490	1484	1483	1492	1511	1516	1505	1501
32.5	1454	1437	1420	1405	1397	1400	1416	1445	1429	1422
35.0	1360	1369	1340	1314	1297	1293	1304	1328	1334	1323
37.5	1235	1244	1243	1211	1183	1172	1176	1195	1222	1206
40.0	1110	1117	1110	1090	1058	1040	1040	1051	1079	1072
42.5	987.1	991.9	981.5	955.7	924.9	903.6	894.5	900.3	918.6	918.1
45.0	866.3	870.9	856.7	826.9	795.2	760.8	745.1	743.6	751.6	766.1
47.5	748.6	753.8	735.9	705.2	672.4	631.1	596.8	597.3	609.3	632.6
50.0	649.5	640.3	620.7	590.9	556.4	513.6	475.0	477.2	494.1	519.5
52.5	580.1	558.3	511.2	483.9	451.5	415.0	388.0	379.9	401.6	430.2
55.0	512.8	490.4	447.4	389.6	360.3	334.4	317.0	308.1	328.5	362.9
57.5	447.3	427.9	392.9	343.2	286.5	268.3	259.6	258.1	272.7	314.4
60.0	383.9	371.5	347.2	306.3	256.2	213.5	214.0	221.3	234.7	277.4
62.5	323.3	321.2	309.4	276.8	233.3	196.0	178.9	196.2	217.6	251.5
65.0	282.2	278.6	278.5	253.0	216.9	185.7	165.9	180.2	207.8	236.1
67.5	252.2	250.8	251.0	234.1	205.9	178.9	162.8	172.4	200.7	226.9
70.0	222.9	223.4	223.1	209.0	196.4	173.5	159.4	170.4	192.2	212.6
72.5	194.2	196.3	196.0	184.7	173.8	162.9	154.9	163.5	179.8	190.0
75.0	166.0	169.5	169.9	162.0	151.8	142.2	143.8	152.2	159.9	163.1
77.5	125.8	142.9	145.0	140.3	130.7	122.7	126.0	133.9	134.6	133.7
80.0	43.47	60.75	80.55	100.1	110.4	104.3	107.6	110.7	107.9	107.2
82.5	0	0	0	13.54	33.82	55.43	85.07	86.53	80.59	80.39
85.0	0	0	0	0	0	0	0	25.59	48.14	48.25
87.5	0	0	0	0	0	0	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0
G/C	350.0	355.0								
0.0	1835	1835								
2.5	1830	1831								
5.0	1823	1825								
7.5	1812	1814								
10.0	1797	1801								
12.5	1779	1783								
15.0	1756	1760								
17.5	1728	1733								
20.0	1696	1702								
22.5	1659	1665								
25.0	1617	1624								
27.5	1567	1575								
30.0	1504	1516								
32.5	1425	1440								
35.0	1326	1343								
37.5	1205	1218								
40.0	1060	1066								
42.5	899.3	908.3								
45.0	758.4	776.6								
47.5	642.3	669.7								
50.0	543.6	579.1								
52.5	464.2	501.2								
55.0	404.0	434.1								
57.5	357.2	377.1								
60.0	317.9	332.3								
62.5	286.2	296.9								

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2023-11-06

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.286  
 Humidity: 65.0%  
 Test Distance: 13.420m [K=1.0000]  
 Remarks: IL-PD620US 3.500K

## Photometric Data Table [cd]

65.0	261.9	267.1
67.5	240.6	239.8
70.0	216.4	208.2
72.5	187.4	173.7
75.0	157.0	143.4
77.5	130.0	123.2
80.0	111.0	111.7
82.5	84.52	90.59
85.0	52.61	55.03
87.5	15.74	18.18
90.0	0	0

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: DAMIN  
Test Date: 2023-11-06

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.286  
Humidity: 65.0%  
Test Distance: 13.420m [K=1.0000]  
Remarks: IL-PD620US 3.500K