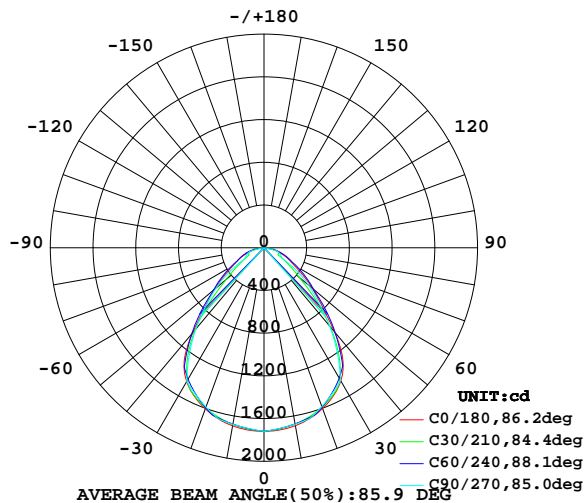


LUMINAIRE PHOTOMETRIC TEST REPORT

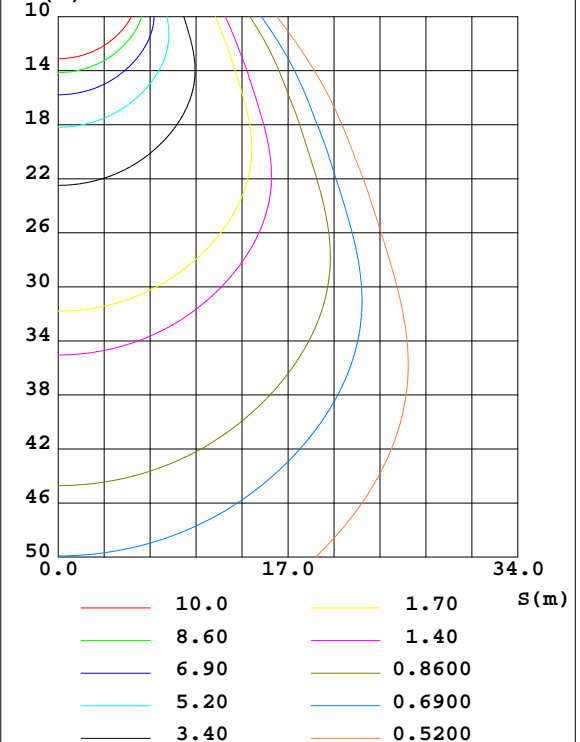
Test:U:229.9V I:0.1340A P:30.07W PF:0.9756 Lamp Flux:3428.52x1 lm		
NAME: IL-PD620US 3.000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:613*613	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 114.02 lm/W			
MODEL	IL-PD620US 3.000K	Imax(cd)	1719	S/MH(C0/180)	1.23
NOMINAL POWER(W)	30	LOR(%)	100.0	S/MH(C90/270)	1.21
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	3428.5	η UP,DN(C0-180)	0.0,49.7
NOMINAL FLUX(lm)	3428.52	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,50.3
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	230	η down(%)	100.0	CIBSE SHR MAX	1.25

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



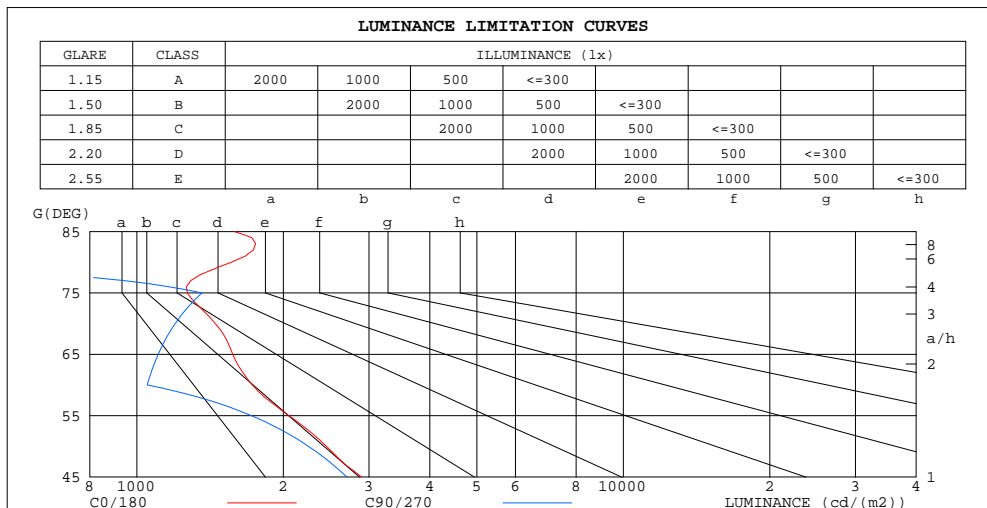
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-11-06

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 3.000K

ZONAL FLUX DIAGRAM
AND LUMINANCE LIMITATION CURVES

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	$\%lum, lamp$
5	1712	1700	1698	1701	1713	1701	1699	1701	0- 5	40.85	40.85	1.19,1.19
10	1692	1675	1677	1676	1693	1677	1678	1676	5- 10	120.9	161.8	4.72,4.72
15	1656	1641	1656	1644	1657	1646	1658	1642	10- 15	197.3	359.1	10.5,10.5
20	1602	1600	1582	1605	1606	1607	1587	1602	15- 20	267.2	626.3	18.3,18.3
25	1533	1510	1509	1515	1538	1521	1516	1513	20- 25	326.2	952.4	27.8,27.8
30	1439	1387	1435	1389	1448	1403	1446	1394	25- 30	371.8	1324	38.6,38.6
35	1289	1223	1196	1220	1304	1249	1219	1236	30- 35	393.8	1718	50.1,50.1
40	1028	1007	956.8	1001	1039	1043	992.7	1028	35- 40	376.1	2094	61.1,61.1
45	769.8	756.6	717.6	768.5	779.8	786.7	766.2	779.6	40- 45	324.5	2419	70.5,70.5
50	592.6	527.9	544.2	557.3	604.9	549.9	581.9	556.6	45- 50	259.9	2679	78.1,78.1
55	442.7	338.0	370.7	373.7	452.8	349.3	397.5	365.6	50- 55	202.0	2881	84.84
60	324.3	270.8	197.3	293.5	335.8	275.4	213.2	287.7	55- 60	153.5	3034	88.5,88.5
65	249.9	225.5	175.7	242.6	262.5	224.4	188.3	237.1	60- 65	120.7	3155	92.92
70	186.2	185.6	154.0	200.4	193.2	185.4	163.4	195.8	65- 70	105.2	3260	95.1,95.1
75	123.4	142.6	132.4	151.0	126.3	148.6	138.4	152.0	70- 75	88.18	3348	97.7,97.7
80	102.2	88.39	0	89.20	105.6	96.32	0	94.22	75- 80	58.86	3407	99.4,99.4
85	51.86	0	0	0	60.95	0	0	0	80- 85	19.45	3426	99.9,99.9
90	0.4901	0	0	0	0.7994	0	0	0	85- 90	2.101	3429	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		



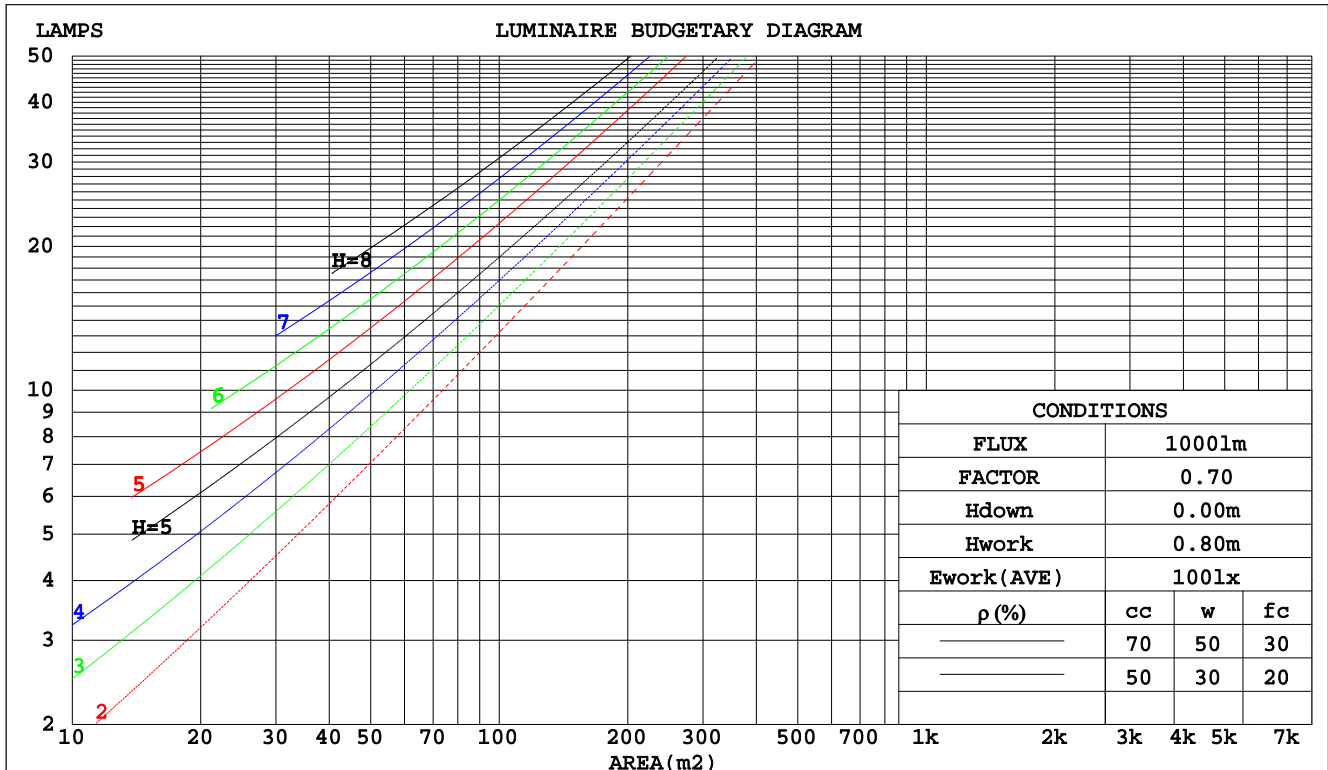
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2023-11-06

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 3.000K

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:229.9V I:0.1340A P:30.07W PF:0.9756 Lamp Flux:3428.52x1 lm		
NAME: IL-PD620US 3.000K	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 3.000K

WEC AND CCEC

Test:U:229.9V I:0.1340A P:30.07W PF:0.9756 Lamp Flux:3428.52x1 lm		
NAME: IL-PD620US 3.000K	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	.214	.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 3.000K

UGR(Unified Glare Rating) Table

Test:U:229.9V I:0.1340A P:30.07W PF:0.9756 Lamp Flux:3428.52x1 lm										
NAME: IL-PD620US 3.000K					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	13.8	15.1	14.0	15.3	15.5	14.5	15.8	14.8	16.0	16.2
3H	15.0	16.2	15.3	16.4	16.6	15.4	16.6	15.6	16.8	17.0
4H	15.5	16.7	15.8	16.9	17.2	15.9	17.0	16.2	17.3	17.5
6H	16.0	17.1	16.3	17.3	17.6	15.9	17.0	16.2	17.3	17.5
8H	16.2	17.3	16.5	17.5	17.8	15.9	16.9	16.2	17.2	17.5
12H	16.4	17.4	16.7	17.6	17.9	15.8	16.8	16.2	17.1	17.4
4H 2H	14.1	15.3	14.4	15.5	15.7	14.8	15.9	15.1	16.2	16.4
3H	15.4	16.5	15.8	16.7	17.0	16.0	17.0	16.3	17.3	17.6
4H	16.2	17.1	16.6	17.4	17.8	16.7	17.6	17.0	17.9	18.2
6H	16.9	17.7	17.3	18.0	18.4	16.8	17.6	17.2	17.9	18.3
8H	17.2	17.9	17.6	18.3	18.7	16.7	17.5	17.1	17.8	18.2
12H	17.4	18.1	17.8	18.5	18.9	16.7	17.4	17.1	17.7	18.1
8H 4H	16.5	17.2	16.9	17.6	18.0	16.9	17.6	17.3	18.0	18.4
6H	17.4	18.0	17.8	18.4	18.8	17.0	17.7	17.5	18.1	18.5
8H	17.8	18.3	18.3	18.8	19.2	17.0	17.6	17.5	18.0	18.4
12H	18.1	18.6	18.6	19.0	19.5	17.0	17.4	17.4	17.9	18.3
12H 4H	16.5	17.2	16.9	17.5	17.9	16.9	17.6	17.3	18.0	18.4
6H	17.4	17.9	17.8	18.3	18.8	17.1	17.6	17.5	18.1	18.5
8H	17.8	18.3	18.3	18.7	19.2	17.0	17.5	17.5	18.0	18.4
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 / - 1.9				

CIE Pub.117 Corrected 3429 lm Total Lamp Luminous Flux.(8log(F/F0) = 4.3)

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 3.000K

UTILIZATION FACTORS TABLE

Test:U:229.9V I:0.1340A P:30.07W PF:0.9756 Lamp Flux:3428.52x1 lm		
NAME: IL-PD620US 3.000K	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

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 3.000K

ISOCANDELA DIAGRAM

Test:U:229.9V I:0.1340A P:30.07W PF:0.9756 Lamp Flux:3428.52x1 lm		
NAME: IL-PD620US 3.000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:613*613	PROTECTION ANGLE:

Conical surface Flux(90deg):

2418.7 lm

%lum = 70.5%

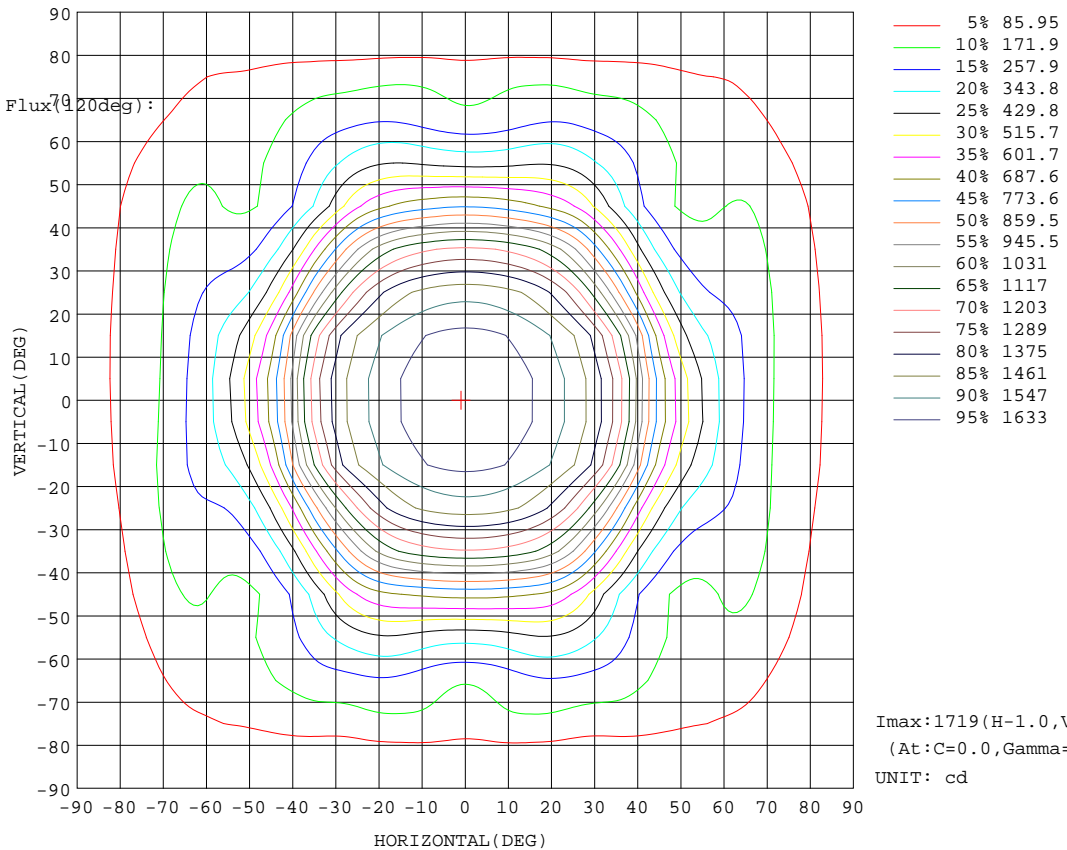
%lamp = 70.5%

Conical surface Flux(70deg):

3034 lm

%lum = 88.5%

%lamp = 88.5%

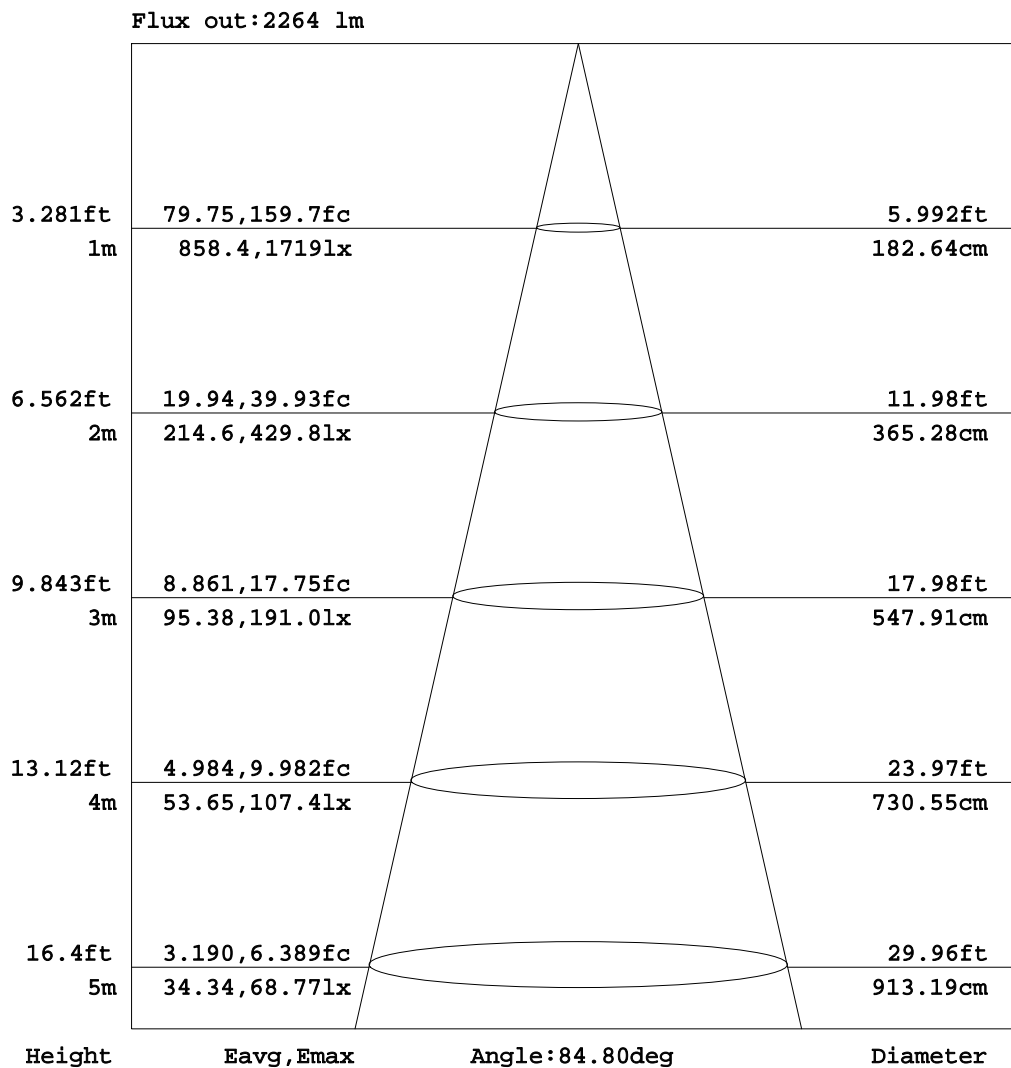


C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-11-06

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 3.000K

AAI Figure

Test:U:229.9V I:0.1340A P:30.07W PF:0.9756 Lamp Flux:3428.52x1 lm		
NAME: IL-PD620US 3.000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:613*613	PROTECTION ANGLE:



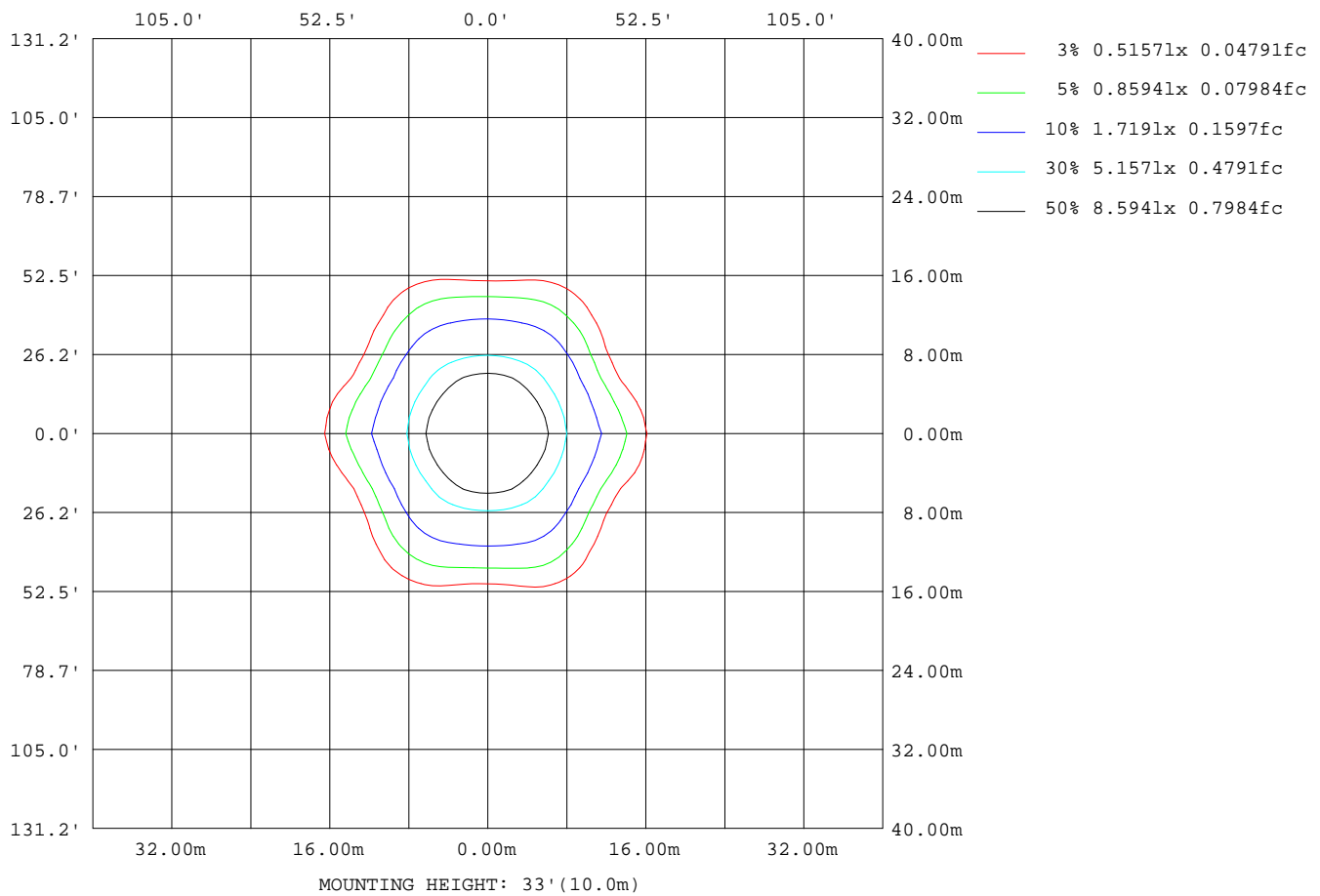
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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 3.000K

ISOLUX DIAGRAM

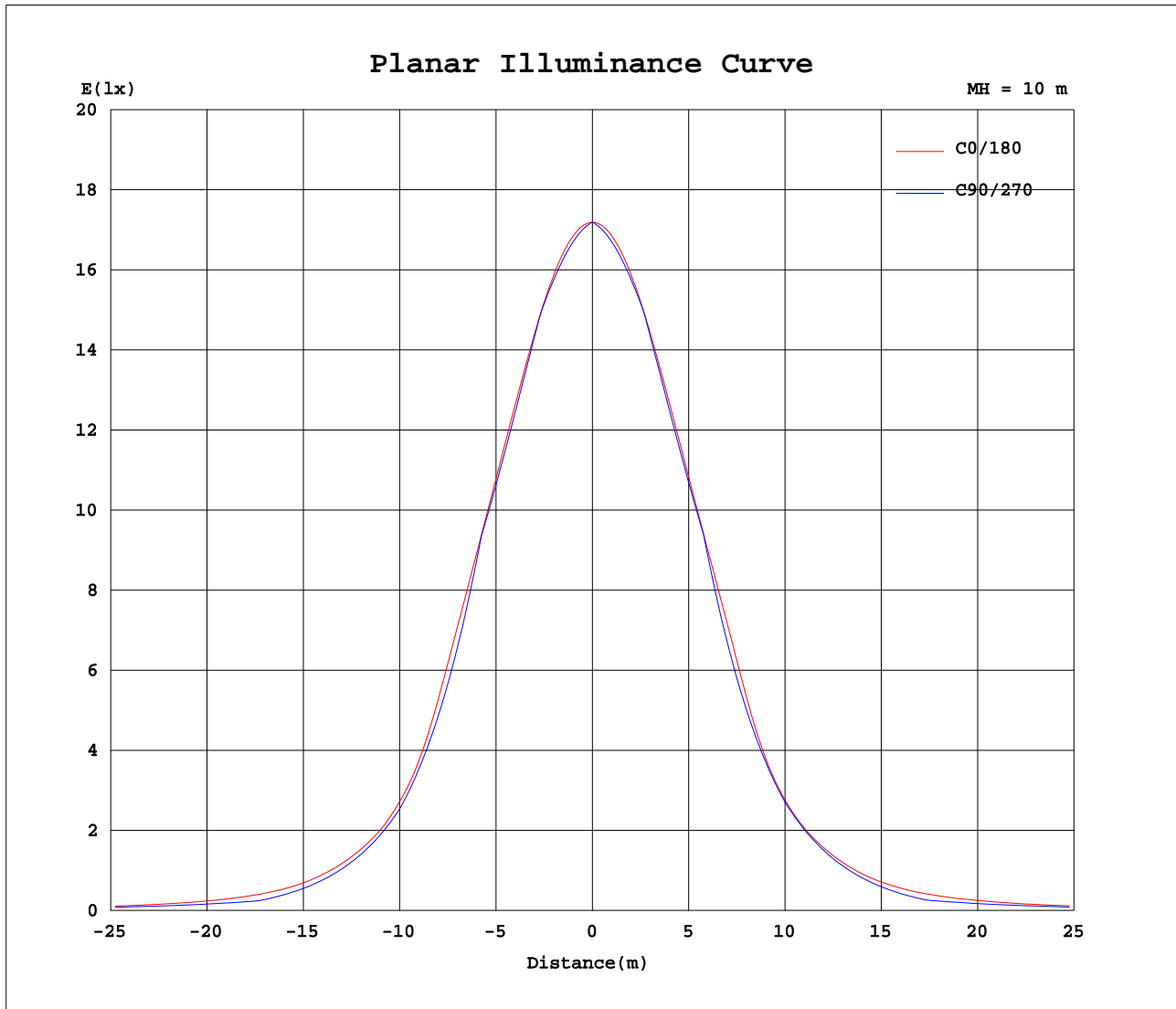
Test:U:229.9V I:0.1340A P:30.07W PF:0.9756 Lamp Flux:3428.52x1 lm		
NAME: IL-PD620US 3.000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:613*613	PROTECTION ANGLE:



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

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 3.000K

Planar Illuminance Curve



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 3.000K

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	1719	1719	1719	1719	1719	1719	1719	1719	1719	1719
2.5	1717	1716	1715	1715	1714	1713	1712	1712	1711	1711
5.0	1712	1710	1709	1707	1705	1704	1703	1702	1701	1700
7.5	1704	1701	1699	1696	1695	1693	1691	1690	1689	1688
10.0	1692	1688	1685	1682	1680	1678	1677	1676	1675	1675
12.5	1675	1671	1667	1664	1662	1660	1659	1659	1659	1659
15.0	1656	1650	1646	1643	1640	1639	1638	1639	1640	1641
17.5	1631	1625	1620	1617	1615	1614	1615	1616	1619	1622
20.0	1602	1595	1590	1587	1586	1586	1588	1591	1595	1600
22.5	1570	1562	1556	1553	1553	1554	1558	1564	1570	1561
25.0	1533	1523	1516	1514	1514	1518	1524	1533	1519	1510
27.5	1490	1478	1470	1467	1469	1475	1485	1471	1459	1453
30.0	1439	1422	1412	1410	1414	1424	1418	1397	1388	1387
32.5	1374	1351	1339	1336	1344	1359	1328	1310	1305	1311
35.0	1289	1259	1243	1241	1254	1248	1221	1208	1209	1223
37.5	1173	1139	1123	1125	1142	1117	1099	1091	1099	1124
40.0	1028	993.6	980.3	987.7	996.3	972.8	962.2	964.5	978.1	1007
42.5	884.7	849.9	835.8	842.9	837.4	822.3	818.2	827.1	850.5	879.2
45.0	769.8	732.2	712.9	714.8	692.1	676.4	673.4	686.6	723.5	756.6
47.5	670.8	632.1	610.9	600.7	570.5	550.4	540.6	563.8	603.5	639.4
50.0	592.6	552.5	526.5	502.8	469.4	445.7	435.0	459.0	494.3	527.9
52.5	517.2	481.0	456.6	423.4	386.9	357.9	357.9	373.1	398.1	425.2
55.0	442.7	416.7	399.4	361.0	320.7	291.7	293.1	301.4	316.1	338.0
57.5	376.6	360.7	351.2	314.9	270.9	245.5	239.2	240.9	250.3	301.2
60.0	324.3	315.6	309.4	279.4	238.9	210.9	195.3	189.2	225.3	270.8
62.5	283.9	278.1	275.3	254.7	221.7	186.8	159.9	172.6	205.7	245.8
65.0	249.9	246.5	247.9	238.7	210.3	170.8	146.8	162.1	190.3	225.5
67.5	219.2	218.5	225.1	224.9	202.3	163.0	145.8	155.3	178.6	209.0
70.0	186.2	187.9	200.6	204.9	192.8	163.7	145.3	150.8	168.2	185.6
72.5	153.0	155.6	173.4	179.1	176.4	157.7	142.7	143.1	149.4	163.2
75.0	123.4	127.0	143.6	151.9	153.0	144.5	133.0	127.2	132.0	142.6
77.5	107.4	109.8	117.8	124.1	127.5	124.9	116.5	111.6	115.6	123.6
80.0	102.2	98.38	97.89	98.65	101.4	102.7	98.45	96.12	99.73	88.39
82.5	85.55	70.35	71.02	73.61	74.97	79.82	76.27	51.46	30.66	11.97
85.0	51.86	39.51	43.65	45.94	44.72	23.52	0	0	0	0
87.5	10.37	17.52	16.32	0	0	0	0	0	0	0
90.0	0.4901	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	1719	1719	1719	1719	1719	1719	1719	1719	1719	1719
2.5	1710	1710	1709	1709	1709	1709	1709	1709	1709	1709
5.0	1700	1699	1699	1699	1698	1698	1698	1698	1698	1698
7.5	1688	1688	1687	1687	1687	1687	1687	1687	1688	1688
10.0	1675	1675	1675	1675	1676	1676	1676	1677	1677	1677
12.5	1660	1661	1662	1662	1664	1665	1666	1666	1667	1667
15.0	1643	1645	1647	1649	1651	1653	1654	1655	1656	1656
17.5	1625	1628	1629	1625	1623	1621	1620	1619	1619	1620
20.0	1599	1593	1589	1586	1584	1583	1583	1582	1582	1583
22.5	1554	1550	1548	1546	1546	1545	1545	1545	1546	1546
25.0	1505	1504	1504	1505	1506	1507	1508	1509	1509	1509
27.5	1452	1454	1458	1462	1466	1469	1471	1472	1472	1472
30.0	1392	1399	1408	1417	1424	1429	1433	1435	1435	1434
32.5	1324	1340	1356	1370	1354	1338	1326	1318	1316	1318
35.0	1248	1275	1268	1253	1236	1220	1207	1199	1196	1199
37.5	1154	1159	1151	1136	1118	1101	1088	1080	1076	1079
40.0	1029	1040	1037	1021	1002	983.4	969.6	960.6	956.8	959.5
42.5	906.5	922.4	923.0	908.0	886.1	865.8	851.1	841.4	837.2	840.0
45.0	787.2	807.5	810.8	796.5	771.8	748.6	732.6	722.2	717.6	720.6
47.5	671.6	695.4	700.4	686.8	670.8	656.1	643.7	635.0	630.9	633.1
50.0	560.5	586.1	606.5	614.4	601.5	580.8	561.9	549.4	544.2	547.1
52.5	454.2	509.9	541.0	548.0	533.6	506.9	480.9	463.9	457.5	461.3
55.0	398.9	450.0	478.4	483.2	466.9	434.3	400.7	378.6	370.7	375.6
57.5	353.9	396.1	418.8	420.1	401.2	362.8	321.2	293.4	284.0	290.1
60.0	317.2	349.0	362.7	358.6	336.4	292.5	242.4	208.4	197.3	204.7
62.5	287.0	308.5	310.4	300.7	287.8	257.4	220.8	195.3	186.5	191.8
65.0	261.7	274.1	271.8	271.0	263.0	239.3	208.9	184.9	175.7	181.8
67.5	234.4	242.7	239.7	240.7	237.0	220.2	196.5	174.4	164.8	171.7
70.0	204.9	211.8	207.8	209.7	210.4	200.0	183.6	164.0	154.0	161.6
72.5	177.6	181.6	176.1	178.6	183.3	179.0	170.2	153.4	143.2	151.5
75.0	152.4	152.1	144.6	147.2	155.7	157.3	156.4	142.9	132.4	141.4
77.5	128.9	123.4	104.9	97.24	95.41	89.47	83.46	72.73	66.20	71.96
80.0	71.37	52.48	36.26	26.07	18.23	10.55	4.696	1.070	0	1.059
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 3.000K

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	1719	1719	1719	1719	1719	1719	1719	1719	1719	1719
2.5	1709	1709	1709	1709	1710	1710	1710	1711	1711	1712
5.0	1698	1698	1699	1699	1699	1700	1700	1701	1702	1703
7.5	1688	1688	1688	1688	1688	1689	1689	1690	1690	1691
10.0	1677	1677	1677	1677	1676	1676	1676	1676	1677	1678
12.5	1666	1666	1665	1664	1663	1663	1662	1661	1661	1661
15.0	1655	1655	1653	1651	1650	1648	1646	1644	1643	1642
17.5	1621	1622	1625	1628	1632	1632	1628	1625	1623	1620
20.0	1583	1585	1586	1589	1592	1597	1603	1605	1600	1596
22.5	1546	1546	1547	1548	1550	1553	1558	1566	1576	1570
25.0	1508	1508	1507	1507	1507	1507	1510	1515	1525	1539
27.5	1470	1469	1467	1464	1460	1457	1456	1457	1463	1477
30.0	1432	1430	1425	1419	1411	1403	1395	1389	1390	1402
32.5	1325	1338	1354	1372	1358	1342	1325	1310	1305	1313
35.0	1206	1219	1236	1254	1270	1274	1245	1220	1207	1209
37.5	1087	1100	1118	1137	1153	1158	1149	1117	1096	1092
40.0	968.0	981.7	1001	1022	1038	1041	1027	1001	974.7	965.2
42.5	849.0	863.6	885.2	909.1	926.1	927.4	910.8	882.0	849.9	833.1
45.0	730.0	745.9	770.5	798.0	817.1	818.5	800.1	768.5	733.6	698.1
47.5	640.6	652.7	669.4	689.4	711.8	714.4	694.4	660.5	622.5	580.0
50.0	558.3	576.9	599.3	617.0	622.0	614.9	593.3	557.3	518.0	475.2
52.5	476.8	502.3	530.5	550.3	554.9	538.9	496.5	459.7	423.2	389.0
55.0	395.9	429.0	462.7	484.5	489.3	474.3	434.5	373.7	341.1	317.2
57.5	315.9	356.8	396.0	419.5	425.8	414.7	381.7	329.2	275.0	256.7
60.0	236.4	285.5	330.0	355.3	364.7	360.9	337.5	293.5	246.9	204.7
62.5	215.3	250.8	281.3	294.0	306.6	313.3	301.1	265.0	225.8	187.3
65.0	204.0	233.8	258.1	266.2	266.7	272.8	270.9	242.6	210.4	176.9
67.5	192.2	215.8	233.8	238.0	236.4	242.6	241.7	225.6	199.9	170.5
70.0	180.0	196.8	208.9	209.2	205.9	212.4	211.5	200.4	190.4	166.4
72.5	167.3	177.1	183.4	180.2	175.6	182.3	182.9	175.2	166.2	156.8
75.0	154.3	156.7	157.4	151.0	145.2	152.5	155.8	151.0	143.2	135.7
77.5	82.36	89.30	97.04	100.9	106.1	123.2	130.1	127.8	121.3	116.2
80.0	4.635	10.53	18.56	27.03	36.64	52.36	71.53	89.20	100.3	98.02
82.5	0	0	0	0	0	0	0	12.08	30.73	52.04
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	1719	1719	1719	1719	1719	1719	1719	1719	1719	1719
2.5	1713	1713	1714	1715	1716	1716	1717	1717	1716	1715
5.0	1704	1705	1706	1708	1709	1711	1713	1711	1710	1708
7.5	1692	1694	1695	1697	1700	1702	1705	1702	1700	1698
10.0	1679	1680	1682	1684	1687	1690	1693	1690	1687	1684
12.5	1662	1663	1664	1667	1670	1673	1678	1673	1670	1667
15.0	1642	1642	1643	1645	1648	1652	1657	1653	1649	1646
17.5	1619	1618	1619	1620	1623	1628	1633	1628	1624	1621
20.0	1593	1591	1590	1591	1594	1599	1606	1599	1595	1592
22.5	1564	1560	1558	1558	1561	1566	1574	1567	1562	1560
25.0	1531	1524	1520	1520	1522	1529	1538	1529	1524	1522
27.5	1492	1483	1476	1474	1477	1484	1497	1486	1479	1478
30.0	1425	1433	1422	1418	1420	1431	1448	1433	1425	1423
32.5	1334	1367	1352	1344	1347	1361	1386	1366	1356	1355
35.0	1226	1253	1259	1248	1253	1272	1304	1280	1268	1268
37.5	1102	1122	1149	1136	1137	1153	1186	1162	1155	1163
40.0	968.0	982.8	1011	1006	998.2	1008	1039	1017	1016	1035
42.5	829.8	837.9	858.0	862.2	851.5	863.6	897.8	873.3	870.5	889.7
45.0	687.7	692.2	707.3	725.7	718.4	739.2	779.8	750.5	740.6	757.4
47.5	551.8	561.0	575.0	598.6	609.8	638.4	686.1	651.8	635.4	632.1
50.0	443.2	451.0	467.8	493.1	517.8	553.5	604.9	568.9	547.8	527.3
52.5	366.4	359.5	381.1	409.0	442.8	478.9	527.2	495.3	475.4	443.1
55.0	301.6	291.9	311.3	344.6	383.8	414.6	452.8	430.3	416.9	377.7
57.5	246.3	243.3	256.6	296.6	340.8	362.9	388.6	374.1	368.1	328.8
60.0	201.6	206.2	219.0	262.8	305.8	322.1	335.8	327.2	321.7	291.3
62.5	165.8	180.4	203.1	240.3	278.3	290.2	296.2	290.2	285.4	263.7
65.0	152.5	164.7	195.6	229.2	257.6	263.5	262.5	259.0	256.7	244.4
67.5	150.5	157.8	191.7	223.5	239.2	238.5	229.6	228.4	231.1	227.3
70.0	148.7	158.2	185.6	209.0	216.3	208.6	193.2	194.5	203.1	206.2
72.5	145.1	152.9	172.4	184.5	187.3	175.0	156.9	159.2	172.5	179.9
75.0	134.2	141.7	152.3	156.0	154.1	142.6	126.3	128.8	143.4	153.7
77.5	116.8	124.1	129.1	127.4	123.7	119.7	111.3	112.5	122.4	128.4

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 3.000K

Photometric Data Table [cd]

80.0	99.06	103.1	104.3	100.5	98.90	101.7	105.6	106.7	110.5	106.3
82.5	77.53	81.70	77.81	73.10	69.62	72.31	90.32	92.06	88.57	82.79
85.0	0	24.35	46.55	44.13	40.86	39.27	60.95	63.09	58.96	52.13
87.5	0	0	0	0	14.68	16.41	13.89	23.44	18.89	0
90.0	0	0	0	0	0	0	0.7994	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	1719	1719	1719	1719	1719	1719	1719	1719	1719	1719
2.5	1714	1713	1713	1712	1712	1711	1711	1710	1710	1710
5.0	1707	1705	1704	1703	1702	1701	1701	1700	1700	1699
7.5	1696	1694	1693	1692	1691	1690	1690	1689	1689	1689
10.0	1682	1681	1679	1678	1678	1677	1677	1677	1677	1678
12.5	1665	1663	1663	1662	1662	1663	1663	1664	1665	1666
15.0	1644	1643	1643	1643	1644	1646	1648	1649	1651	1653
17.5	1620	1620	1620	1622	1625	1627	1630	1634	1634	1630
20.0	1592	1593	1595	1599	1603	1607	1606	1600	1595	1592
22.5	1560	1562	1566	1572	1579	1570	1562	1558	1555	1554
25.0	1523	1527	1534	1542	1530	1521	1516	1514	1513	1513
27.5	1480	1487	1497	1484	1472	1466	1464	1466	1468	1472
30.0	1429	1440	1433	1414	1404	1403	1407	1414	1421	1428
32.5	1363	1378	1349	1331	1326	1331	1343	1357	1371	1383
35.0	1281	1273	1247	1235	1235	1249	1270	1295	1285	1269
37.5	1182	1152	1131	1123	1132	1155	1181	1179	1169	1154
40.0	1046	1018	1002	1001	1016	1043	1056	1060	1053	1039
42.5	889.4	870.6	864.5	870.5	890.5	913.0	932.9	941.9	937.9	925.3
45.0	736.2	720.4	717.9	733.7	761.3	786.7	811.6	825.8	824.2	812.0
47.5	602.6	586.1	577.6	603.3	638.2	665.3	692.5	711.8	712.4	699.8
50.0	494.8	471.4	463.7	489.4	523.9	549.9	576.9	599.6	616.7	624.0
52.5	406.0	379.4	379.9	396.8	420.6	442.1	465.7	519.4	548.5	554.9
55.0	336.0	307.2	312.0	320.0	332.6	349.3	406.4	455.1	482.8	487.7
57.5	283.1	259.1	254.2	255.9	262.5	308.9	357.2	397.1	419.8	422.2
60.0	248.7	223.4	209.2	202.4	235.1	275.4	316.2	345.5	359.9	358.0
62.5	230.8	198.3	173.5	183.7	213.1	247.4	282.0	300.5	303.5	297.2
65.0	217.6	181.1	158.7	171.5	195.7	224.4	253.0	262.8	265.8	269.4
67.5	207.0	170.9	154.8	162.4	182.5	205.8	226.8	236.4	238.2	241.6
70.0	195.8	168.8	151.5	155.2	171.0	185.4	201.5	210.6	211.1	213.8
72.5	178.8	161.5	146.6	145.9	154.0	166.3	178.2	185.4	184.5	186.2
75.0	155.4	148.0	136.9	131.2	137.9	148.6	156.7	160.6	158.2	158.6
77.5	130.6	128.7	122.4	117.1	122.5	132.0	136.8	136.4	120.3	107.6
80.0	105.1	106.6	106.0	103.3	107.6	96.32	76.82	57.90	41.59	28.95
82.5	78.23	83.90	84.58	56.34	33.12	13.04	0	0	0	0
85.0	46.91	24.80	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	1719	1719	1719	1719	1719	1719	1719	1719	1719	1719
2.5	1709	1709	1709	1709	1709	1709	1709	1709	1709	1709
5.0	1699	1699	1699	1699	1699	1699	1698	1699	1699	1699
7.5	1689	1689	1689	1689	1688	1688	1688	1688	1688	1688
10.0	1678	1678	1678	1678	1678	1678	1678	1677	1677	1677
12.5	1666	1667	1668	1668	1668	1668	1667	1666	1665	1664
15.0	1655	1656	1657	1658	1658	1657	1656	1655	1653	1651
17.5	1627	1625	1624	1623	1622	1622	1623	1624	1625	1627
20.0	1590	1589	1588	1587	1587	1587	1587	1587	1588	1589
22.5	1553	1552	1552	1552	1552	1551	1551	1550	1550	1550
25.0	1514	1515	1516	1516	1516	1515	1515	1513	1511	1510
27.5	1475	1478	1480	1481	1481	1480	1478	1475	1472	1468
30.0	1435	1440	1444	1445	1446	1444	1441	1437	1432	1425
32.5	1366	1352	1342	1335	1333	1334	1339	1349	1363	1380
35.0	1252	1237	1228	1222	1219	1220	1225	1234	1248	1263
37.5	1138	1123	1114	1109	1106	1107	1111	1120	1132	1147
40.0	1023	1009	999.9	995.4	992.7	993.1	997.0	1004	1017	1031
42.5	909.7	895.0	885.7	882.1	879.4	879.5	882.8	889.3	901.1	915.9
45.0	796.5	781.0	771.3	768.8	766.2	765.8	768.3	774.0	786.0	801.8
47.5	694.1	687.1	679.9	677.1	674.0	673.7	675.6	678.9	682.5	689.0
50.0	619.9	607.6	594.2	586.7	581.9	582.6	588.4	598.4	608.7	614.5
52.5	547.4	529.5	509.4	496.5	489.7	491.8	502.1	519.6	537.1	547.4
55.0	476.4	452.8	425.5	406.5	397.5	401.2	416.7	442.3	467.3	482.4
57.5	407.0	377.2	342.4	316.8	305.4	310.7	332.1	366.5	399.2	419.1
60.0	338.9	302.8	260.0	227.2	213.2	220.4	248.2	292.1	332.6	357.1
62.5	288.6	265.2	235.2	211.4	200.8	205.7	224.8	255.9	283.9	298.1
65.0	264.2	245.6	220.1	198.4	188.3	193.8	211.8	238.3	261.0	270.6
67.5	238.9	225.2	204.7	185.2	175.8	181.9	198.4	219.7	237.2	243.0
70.0	213.1	204.2	188.8	172.1	163.4	170.0	184.6	200.4	212.7	214.9

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 3.000K

Photometric Data Table [cd]

72.5	187.0	182.5	172.6	158.8	150.9	158.1	170.5	180.4	187.7	187.0
75.0	160.5	160.3	156.1	145.5	138.4	146.1	156.1	159.8	162.2	159.1
77.5	98.99	91.24	83.13	74.00	69.22	74.31	83.27	91.11	100.3	107.7
80.0	18.94	10.76	4.678	1.088	0	1.093	4.686	10.75	19.20	28.93
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	1719	1719	1719	1719	1719	1719	1719	1719	1719	1719
2.5	1709	1710	1710	1711	1711	1712	1713	1713	1714	1715
5.0	1699	1700	1700	1701	1702	1703	1703	1705	1706	1707
7.5	1688	1688	1689	1689	1690	1690	1692	1693	1695	1697
10.0	1676	1675	1675	1676	1676	1676	1677	1679	1680	1682
12.5	1663	1662	1660	1660	1659	1659	1660	1660	1662	1664
15.0	1649	1646	1644	1642	1641	1639	1639	1639	1641	1643
17.5	1631	1630	1626	1623	1620	1617	1616	1615	1615	1617
20.0	1592	1595	1600	1602	1597	1592	1589	1587	1586	1587
22.5	1551	1553	1557	1563	1571	1564	1559	1555	1553	1553
25.0	1509	1508	1510	1513	1521	1533	1524	1518	1514	1513
27.5	1464	1460	1458	1458	1462	1472	1484	1474	1468	1466
30.0	1417	1408	1400	1394	1393	1400	1418	1422	1412	1408
32.5	1366	1351	1335	1321	1313	1316	1330	1356	1341	1334
35.0	1279	1288	1261	1236	1220	1216	1225	1247	1252	1242
37.5	1162	1171	1170	1140	1114	1103	1106	1123	1148	1133
40.0	1045	1051	1045	1028	996.9	979.6	977.5	988.5	1014	1007
42.5	929.1	933.9	924.5	900.8	872.7	850.8	842.1	847.0	863.5	863.0
45.0	815.6	820.3	807.0	779.6	750.2	717.4	702.3	700.2	706.9	720.8
47.5	704.9	709.8	693.2	664.7	632.9	595.7	563.3	562.4	573.8	595.1
50.0	611.6	602.7	584.3	556.6	523.9	484.6	448.2	449.8	465.2	488.7
52.5	546.4	525.3	481.1	454.9	425.4	391.2	366.0	358.3	378.1	404.8
55.0	482.9	461.5	420.7	365.6	338.9	314.9	298.9	290.3	309.4	341.8
57.5	421.0	402.5	369.3	322.2	269.1	252.4	244.5	243.1	257.0	294.7
60.0	361.2	349.2	326.1	287.7	240.6	200.6	201.3	208.3	221.2	261.0
62.5	304.0	301.9	290.5	259.7	218.9	184.0	168.0	184.5	204.8	236.5
65.0	265.3	261.8	261.3	237.1	203.3	174.2	155.7	169.3	195.4	222.0
67.5	237.1	235.6	235.4	219.3	192.8	167.7	152.6	161.8	188.6	213.3
70.0	209.5	209.8	209.3	195.8	183.7	162.5	149.4	159.9	180.6	199.6
72.5	182.5	184.4	183.9	173.1	162.7	152.5	145.1	153.4	168.9	178.3
75.0	155.9	159.2	159.5	152.0	142.4	133.2	134.8	142.8	150.2	152.9
77.5	118.2	134.3	136.3	131.9	122.8	115.2	118.2	125.8	126.5	125.4
80.0	40.83	57.10	75.73	94.22	103.9	97.96	101.0	104.1	101.4	100.6
82.5	0	0	0	12.75	31.86	52.11	80.01	81.45	75.85	75.61
85.0	0	0	0	0	0	0	0	24.10	45.43	45.67
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	1719	1719								
2.5	1715	1716								
5.0	1709	1710								
7.5	1699	1701								
10.0	1685	1688								
12.5	1667	1671								
15.0	1646	1650								
17.5	1620	1625								
20.0	1590	1595								
22.5	1556	1562								
25.0	1516	1523								
27.5	1469	1477								
30.0	1411	1422								
32.5	1337	1351								
35.0	1244	1260								
37.5	1131	1144								
40.0	995.0	1001								
42.5	844.8	853.2								
45.0	713.4	731.2								
47.5	602.9	626.9								
50.0	511.1	543.9								
52.5	436.7	471.0								
55.0	378.1	406.9								
57.5	336.1	354.3								
60.0	298.8	312.0								
62.5	268.9	278.6								

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 3.000K

Photometric Data Table [cd]

65.0	245.9	250.5
67.5	225.8	224.8
70.0	203.0	194.8
72.5	175.8	162.5
75.0	147.1	134.1
77.5	121.8	115.3
80.0	104.1	104.7
82.5	79.36	85.03
85.0	49.54	51.55
87.5	15.05	17.20
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 3.000K