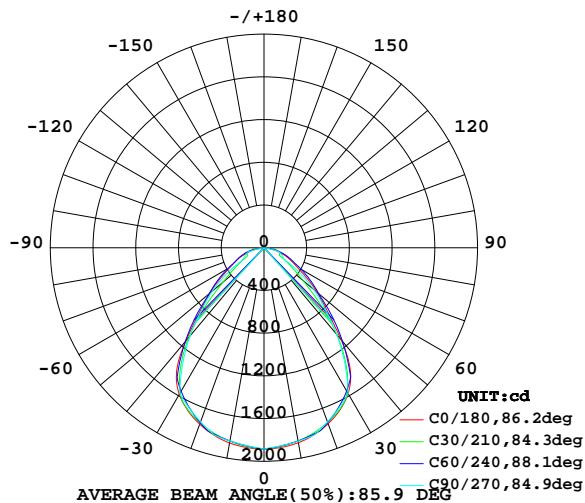


LUMINAIRE PHOTOMETRIC TEST REPORT

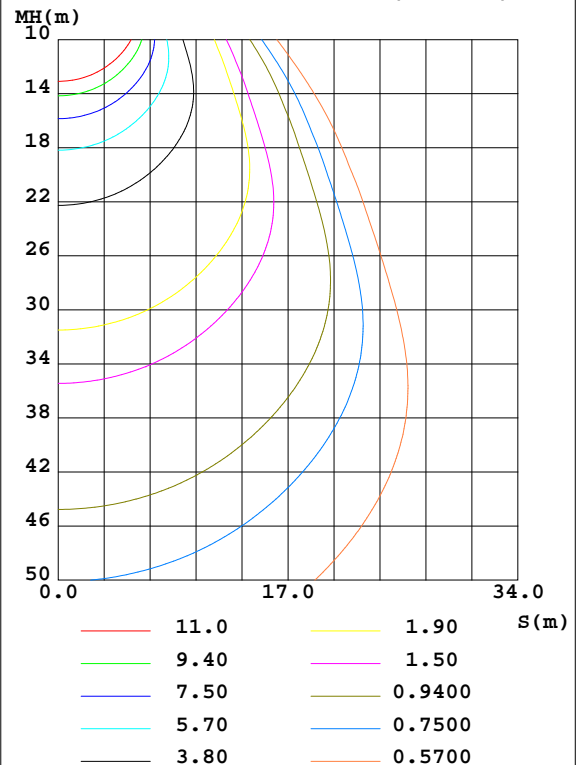
Test:U:230.0V I:0.1344A P:30.16W PF:0.9757 Lamp Flux:3755.1lx1 lm		
NAME: IL-PD620US 4.000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:613*613	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 124.52 lm/W			
MODEL	IL-PD620US 4.000K	Imax(cd)	1884	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)	3755.1	η UP,DN(C0-180)	0.0,49.9
NOMINAL FLUX(lm)	3755.11	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,50.1
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)



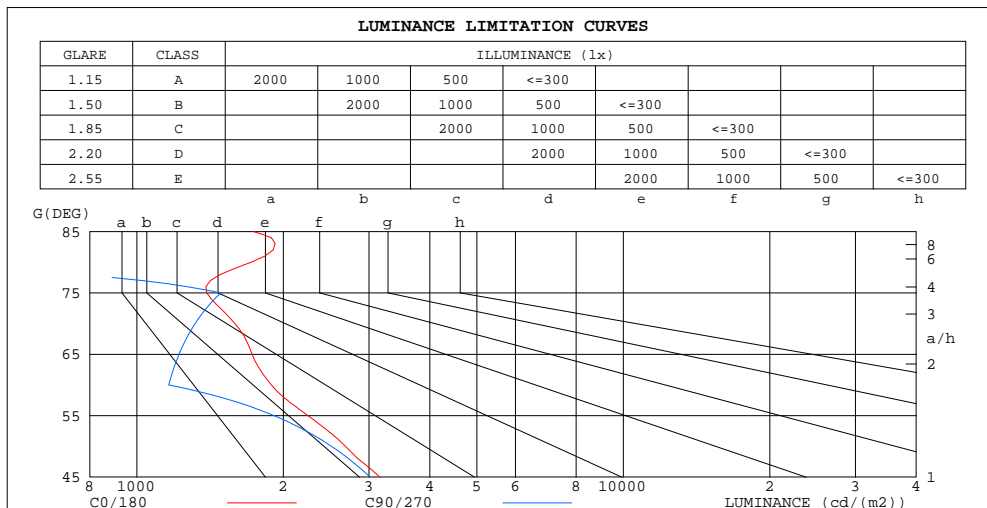
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-11-06

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 4.000K

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	1876	1864	1861	1865	1877	1864	1861	1863	0- 5	44.77	44.77	1.19,1.19
10	1854	1835	1839	1838	1856	1837	1837	1834	5- 10	132.5	177.3	4.72,4.72
15	1813	1799	1816	1803	1816	1801	1814	1797	10- 15	216.2	393.4	10.5,10.5
20	1755	1754	1737	1760	1759	1758	1735	1752	15- 20	292.6	686.1	18.3,18.3
25	1679	1657	1658	1663	1685	1663	1657	1654	20- 25	357.3	1043	27.8,27.8
30	1577	1524	1578	1527	1586	1533	1578	1522	25- 30	407.4	1451	38.6,38.6
35	1411	1347	1319	1344	1429	1362	1327	1346	30- 35	431.5	1882	50.1,50.1
40	1124	1111	1060	1105	1139	1134	1076	1116	35- 40	412.0	2294	61.1,61.1
45	838.4	834.7	801.0	848.3	854.1	855.2	824.8	845.8	40- 45	355.3	2650	70.6,70.6
50	648.3	582.2	606.8	613.9	663.1	597.4	626.6	604.1	45- 50	284.6	2934	78.1,78.1
55	484.1	373.0	412.6	410.1	496.1	380.0	428.4	399.1	50- 55	221.1	3155	84.84
60	354.9	296.8	218.4	321.7	370.0	300.3	230.1	314.4	55- 60	168.0	3323	88.5,88.5
65	273.9	246.2	193.8	265.2	287.4	245.9	204.0	259.9	60- 65	132.1	3455	92.92
70	204.4	202.2	169.2	218.6	211.6	203.8	177.8	215.1	65- 70	115.1	3570	95.1,95.1
75	135.4	155.8	144.7	165.0	137.8	162.9	151.7	166.7	70- 75	96.56	3667	97.7,97.7
80	112.2	97.01	0	97.85	115.4	105.2	0	103.0	75- 80	64.45	3731	99.4,99.4
85	56.79	0	0	0	66.80	0	0	0	80- 85	21.36	3753	99.9,99.9
90	0.5027	0	0	0	0.8267	0	0	0	85- 90	2.318	3755	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		



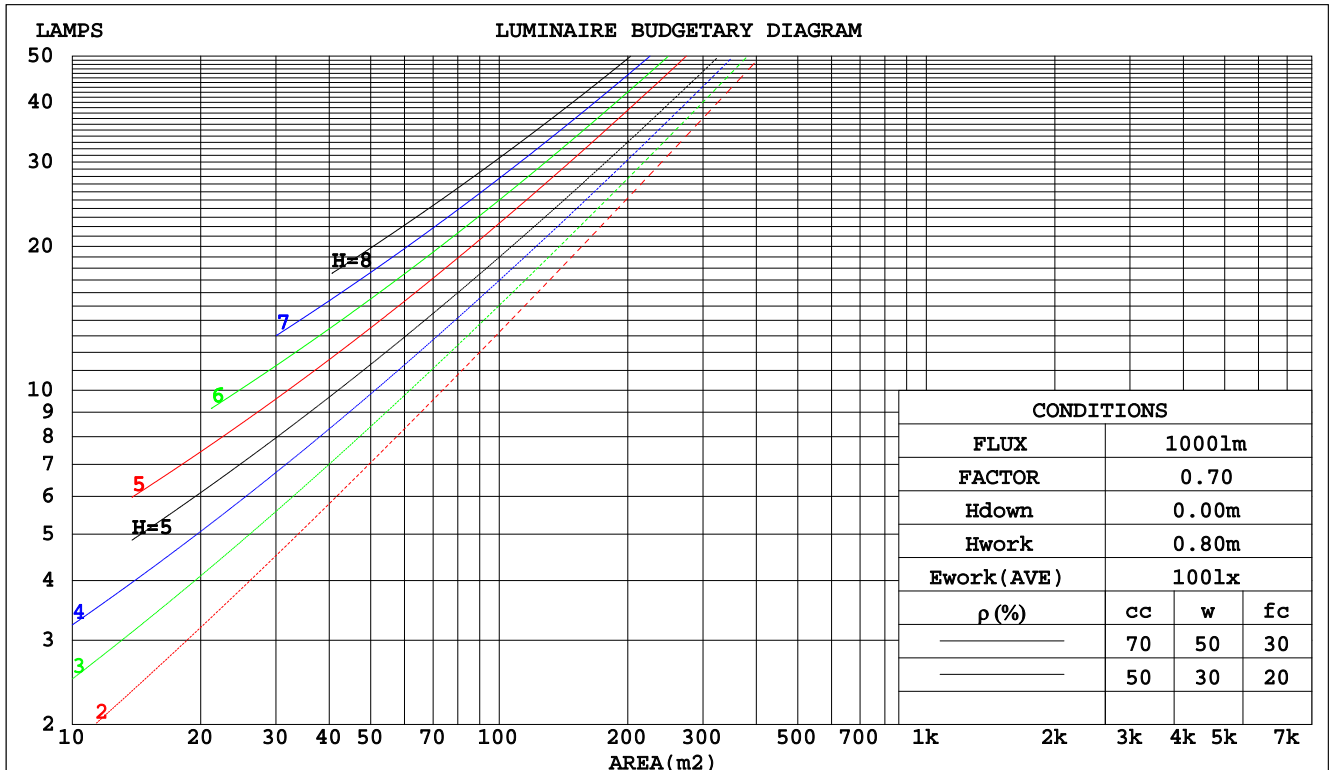
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2023-11-06

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 4.000K

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:230.0V I:0.1344A P:30.16W PF:0.9757 Lamp Flux:3755.1lx1 lm		
NAME: IL-PD620US 4.000K	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 4.000K

WEC AND CCEC

Test:U:230.0V I:0.1344A P:30.16W PF:0.9757 Lamp Flux:3755.11x1 lm		
NAME: IL-PD620US 4.000K	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	.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 4.000K

UGR(Unified Glare Rating) Table

Test:U:230.0V I:0.1344A P:30.16W PF:0.9757 Lamp Flux:3755.1lx1 lm										
NAME: IL-PD620US 4.000K					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	14.1	15.5	14.4	15.7	15.8	14.9	16.2	15.1	16.4	16.6
3H	15.3	16.5	15.6	16.8	17.0	15.7	17.0	16.0	17.2	17.4
4H	15.8	17.0	16.1	17.2	17.5	16.2	17.4	16.5	17.6	17.9
6H	16.3	17.4	16.6	17.7	17.9	16.3	17.4	16.6	17.6	17.9
8H	16.6	17.6	16.9	17.9	18.2	16.2	17.3	16.6	17.6	17.8
12H	16.7	17.7	17.0	18.0	18.3	16.2	17.2	16.5	17.5	17.8
4H 2H	14.4	15.6	14.7	15.8	16.1	15.1	16.3	15.4	16.5	16.8
3H	15.8	16.8	16.1	17.1	17.4	16.3	17.3	16.7	17.6	17.9
4H	16.5	17.5	16.9	17.8	18.1	17.0	17.9	17.4	18.2	18.6
6H	17.2	18.0	17.6	18.4	18.7	17.1	17.9	17.5	18.3	18.6
8H	17.5	18.3	17.9	18.7	19.0	17.1	17.8	17.5	18.2	18.6
12H	17.7	18.4	18.2	18.8	19.2	17.0	17.7	17.5	18.1	18.5
8H 4H	16.8	17.6	17.2	17.9	18.3	17.2	18.0	17.6	18.4	18.7
6H	17.7	18.3	18.2	18.7	19.2	17.4	18.0	17.8	18.4	18.8
8H	18.1	18.7	18.6	19.1	19.6	17.4	17.9	17.8	18.3	18.8
12H	18.5	18.9	18.9	19.4	19.8	17.3	17.8	17.8	18.2	18.7
12H 4H	16.8	17.5	17.2	17.9	18.3	17.3	18.0	17.7	18.3	18.7
6H	17.7	18.3	18.2	18.7	19.1	17.4	18.0	17.9	18.4	18.9
8H	18.2	18.6	18.6	19.1	19.5	17.4	17.9	17.9	18.3	18.8
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 3755 lm Total Lamp Luminous Flux.(8log(F/F0) = 4.6)

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 4.000K

UTILIZATION FACTORS TABLE

Test:U:230.0V I:0.1344A P:30.16W PF:0.9757 Lamp Flux:3755.11x1 lm		
NAME: IL-PD620US 4.000K	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 4.000K

ISOCANDELA DIAGRAM

Test:U:230.0V I:0.1344A P:30.16W PF:0.9757 Lamp Flux:3755.1lx1 lm		
NAME: IL-PD620US 4.000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:613*613	PROTECTION ANGLE:

Conical surface Flux(90deg):

2649.5 lm

%lum = 70.6%

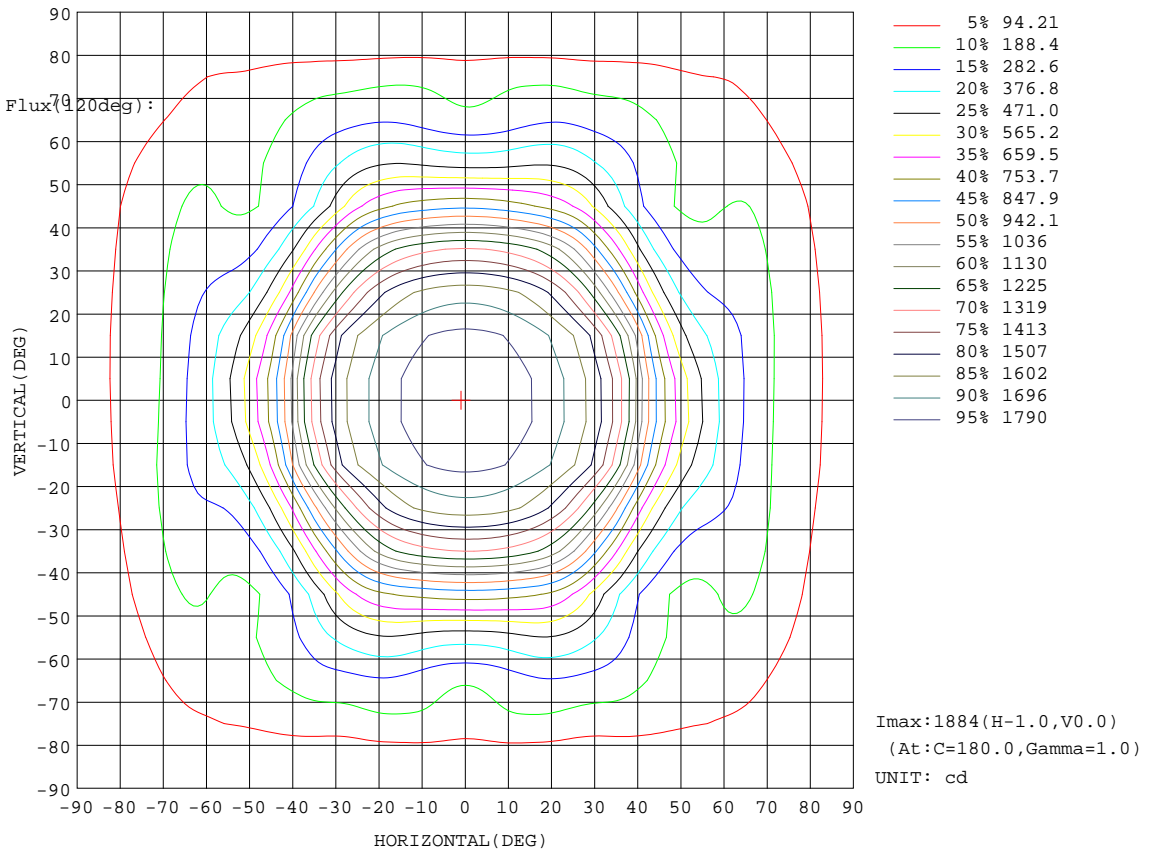
%lamp = 70.6%

Conical surface Flux(70deg):

3323.2 lm

%lum = 88.5%

%lamp = 88.5%

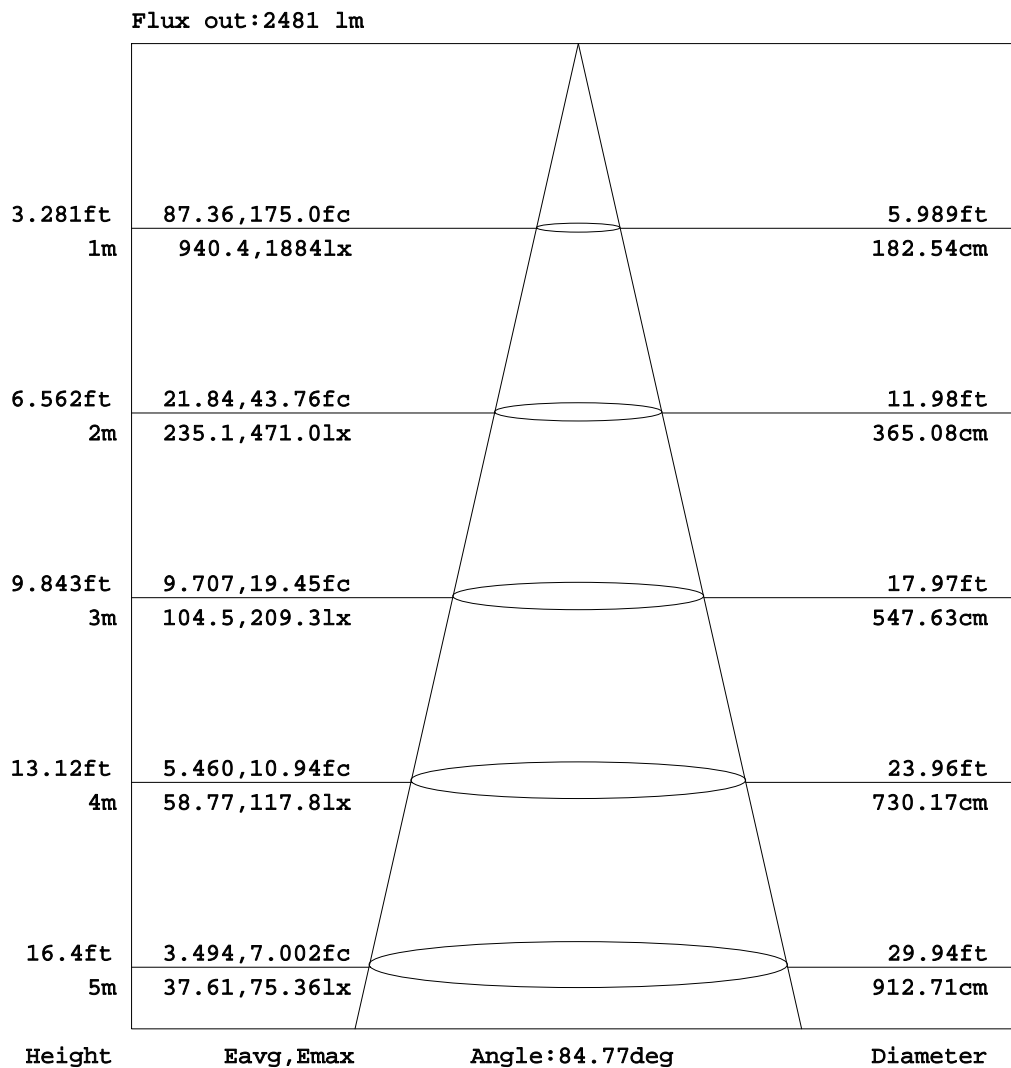


C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-11-06

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 4.000K

AAI Figure

Test:U:230.0V I:0.1344A P:30.16W PF:0.9757 Lamp Flux:3755.1lx1 lm		
NAME: IL-PD620US 4.000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:613*613	PROTECTION ANGLE:



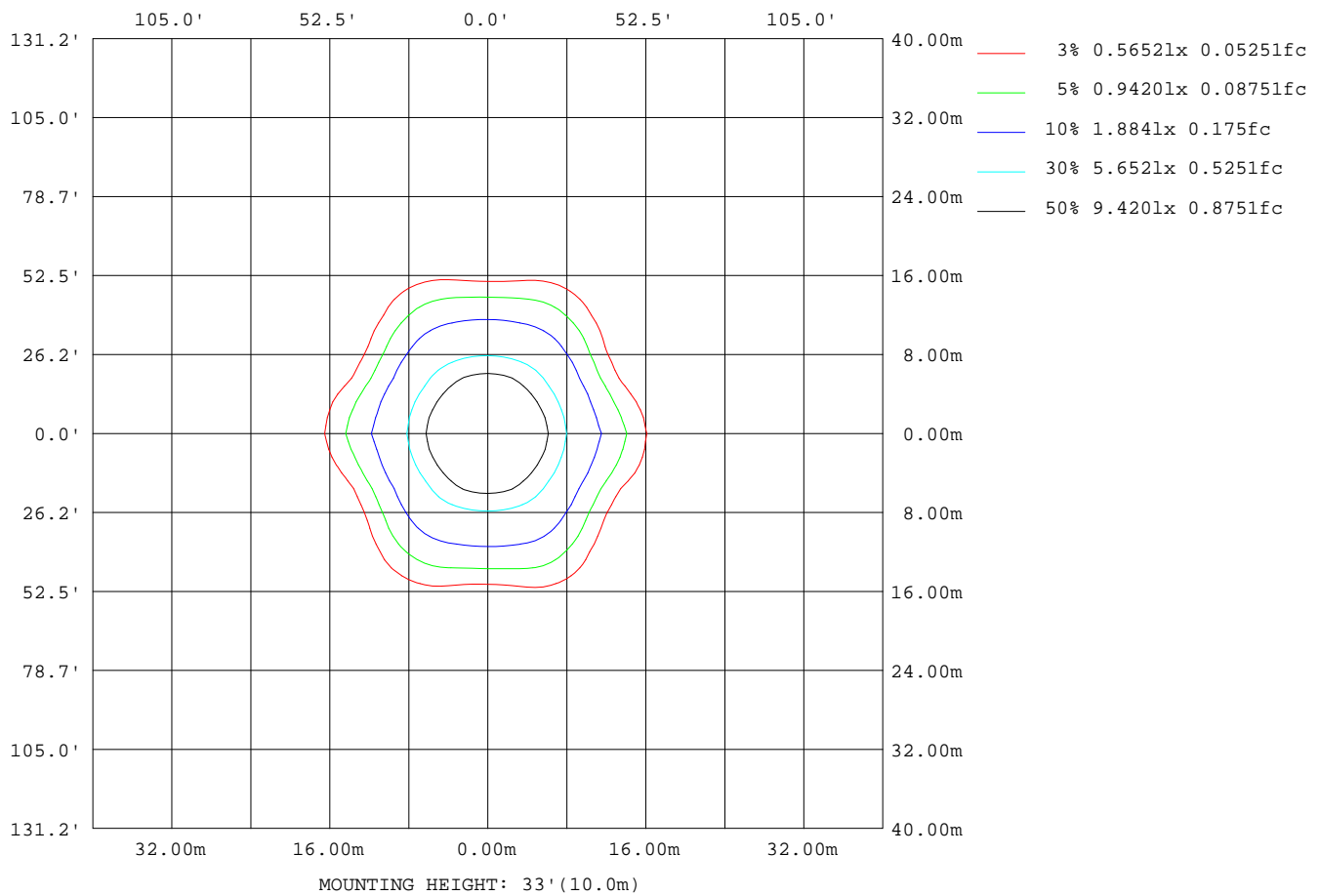
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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 4.000K

ISOLUX DIAGRAM

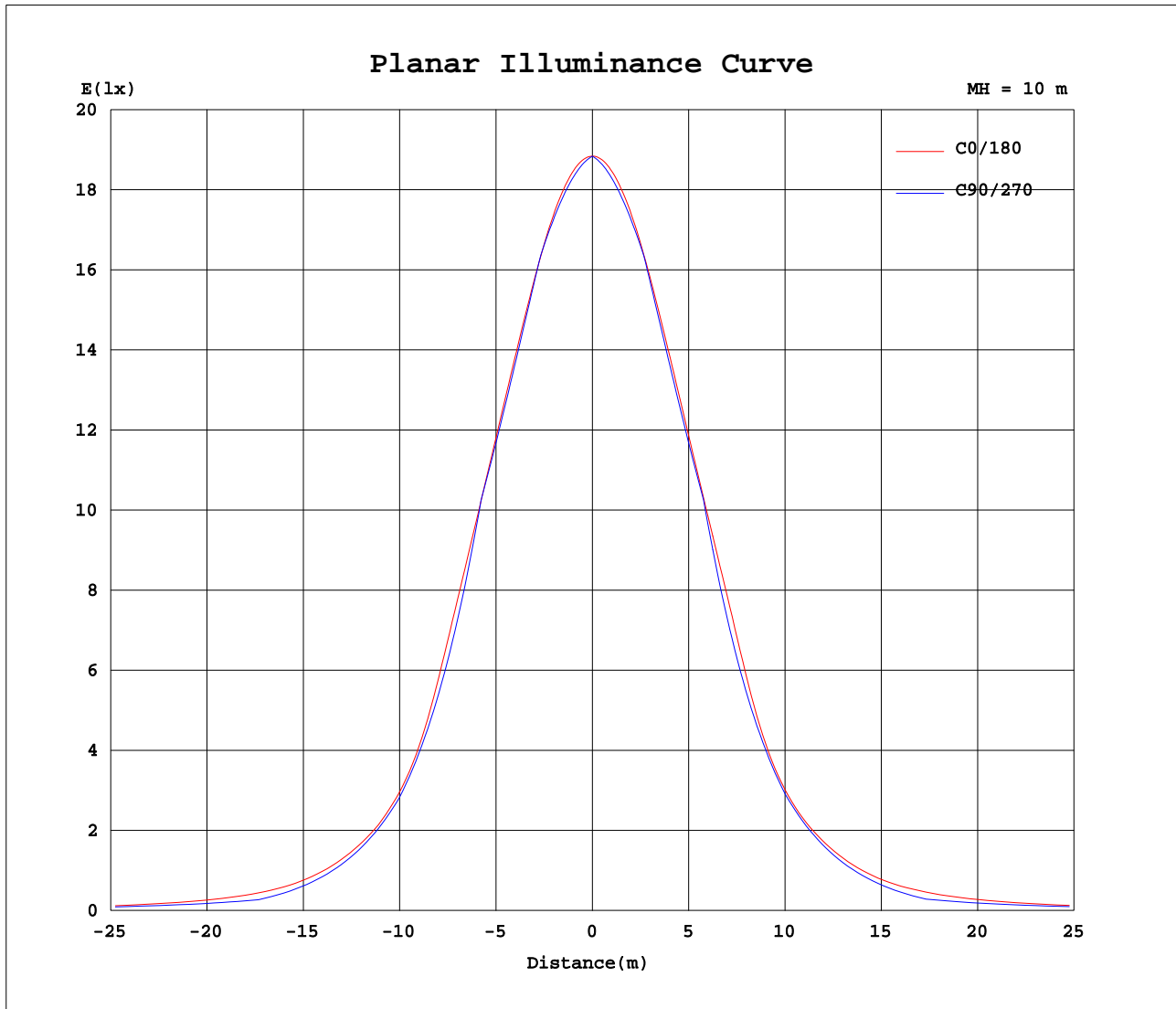
Test:U:230.0V I:0.1344A P:30.16W PF:0.9757 Lamp Flux:3755.1lx1 lm		
NAME: IL-PD620US 4.000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:613*613	PROTECTION ANGLE:



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 4.000K

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 4.000K

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	1884	1884	1884	1884	1884	1884	1884	1884	1884	1884
2.5	1882	1881	1880	1879	1878	1877	1877	1876	1875	1875
5.0	1876	1875	1873	1871	1869	1868	1867	1866	1865	1864
7.5	1867	1864	1861	1859	1857	1855	1853	1852	1851	1851
10.0	1854	1850	1846	1843	1841	1839	1837	1836	1836	1835
12.5	1836	1831	1827	1824	1821	1819	1818	1818	1818	1818
15.0	1813	1807	1803	1799	1797	1796	1796	1796	1797	1799
17.5	1786	1780	1775	1772	1770	1769	1770	1772	1774	1778
20.0	1755	1747	1742	1739	1738	1738	1741	1745	1749	1754
22.5	1719	1710	1705	1702	1702	1704	1708	1714	1722	1712
25.0	1679	1668	1662	1659	1660	1664	1672	1681	1666	1657
27.5	1632	1619	1611	1608	1611	1618	1629	1614	1601	1595
30.0	1577	1559	1548	1546	1551	1563	1557	1534	1525	1524
32.5	1505	1481	1468	1466	1475	1492	1459	1440	1434	1442
35.0	1411	1380	1363	1362	1377	1371	1342	1328	1330	1347
37.5	1283	1248	1232	1234	1255	1228	1208	1201	1210	1238
40.0	1124	1088	1075	1084	1094	1070	1061	1062	1078	1111
42.5	967.5	930.6	916.4	925.8	920.1	904.0	901.7	914.4	937.9	969.9
45.0	838.4	800.3	782.1	785.8	760.8	743.7	741.2	759.3	799.2	834.7
47.5	735.9	694.9	672.1	661.4	627.6	605.6	595.2	621.4	667.9	704.7
50.0	648.3	605.7	579.0	553.6	517.1	490.5	479.2	505.4	546.0	582.2
52.5	565.8	527.4	502.0	466.1	426.1	394.5	394.1	410.7	438.0	469.0
55.0	484.1	456.6	438.6	397.7	353.4	321.6	322.7	331.6	347.4	373.0
57.5	411.8	395.8	387.6	346.5	298.8	270.5	263.3	264.9	274.9	331.0
60.0	354.9	346.2	340.2	308.3	263.7	232.3	214.8	208.0	247.2	296.8
62.5	310.8	304.9	302.4	280.6	244.5	205.6	175.6	189.1	225.1	269.0
65.0	273.9	270.4	272.2	262.8	231.6	187.7	161.0	177.4	207.8	246.2
67.5	240.4	239.7	247.1	247.3	222.6	179.0	159.8	169.6	194.5	227.7
70.0	204.4	206.0	220.2	225.3	212.2	180.0	159.3	164.6	182.8	202.2
72.5	167.8	170.5	190.1	196.8	194.1	173.5	156.7	156.2	162.7	178.0
75.0	135.4	138.9	157.2	166.9	168.3	159.0	146.2	139.1	144.1	155.8
77.5	117.8	120.1	129.2	136.5	140.2	137.4	128.0	122.2	126.4	135.3
80.0	112.2	108.4	108.4	109.0	111.6	112.8	108.1	105.3	109.4	97.01
82.5	93.89	79.10	79.82	81.99	82.77	87.69	83.60	56.40	33.65	13.14
85.0	56.79	44.65	49.54	51.54	49.65	25.84	0	0	0	0
87.5	11.92	19.59	18.49	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	1884	1884	1884	1884	1884	1884	1884	1884	1884	1884
2.5	1874	1874	1874	1873	1873	1873	1873	1873	1873	1873
5.0	1863	1863	1862	1862	1862	1861	1861	1861	1861	1862
7.5	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850
10.0	1836	1836	1836	1837	1837	1838	1838	1838	1839	1839
12.5	1819	1820	1822	1823	1824	1825	1826	1827	1827	1828
15.0	1801	1803	1806	1808	1811	1813	1814	1815	1816	1816
17.5	1781	1785	1786	1782	1780	1778	1777	1776	1776	1777
20.0	1753	1747	1743	1740	1739	1738	1737	1737	1737	1737
22.5	1705	1700	1698	1697	1697	1697	1697	1697	1697	1698
25.0	1652	1651	1651	1652	1654	1656	1657	1657	1658	1658
27.5	1594	1597	1601	1606	1611	1614	1616	1618	1618	1618
30.0	1530	1538	1548	1558	1566	1572	1576	1578	1578	1578
32.5	1457	1474	1491	1507	1489	1473	1460	1452	1449	1452
35.0	1374	1404	1396	1379	1361	1344	1331	1323	1319	1322
37.5	1272	1277	1269	1252	1233	1216	1202	1193	1190	1192
40.0	1134	1146	1143	1127	1106	1087	1073	1064	1060	1063
42.5	999.5	1017	1018	1003	979.8	959.1	944.1	934.7	930.6	933.4
45.0	868.4	890.9	895.6	880.9	854.9	831.4	815.2	805.4	801.0	803.9
47.5	740.9	767.5	774.0	760.7	744.2	729.1	716.6	708.0	703.9	706.0
50.0	618.2	646.9	670.3	680.1	666.8	645.0	625.2	612.2	606.8	609.8
52.5	500.3	562.6	597.3	606.1	591.0	562.4	534.7	516.5	509.7	513.7
55.0	439.0	495.9	527.7	533.9	516.6	481.3	445.0	421.1	412.6	417.8
57.5	389.2	436.3	461.7	463.6	443.4	401.5	356.1	325.8	315.5	322.0
60.0	348.4	383.9	399.3	395.2	371.1	322.9	267.9	230.7	218.4	226.4
62.5	314.9	338.8	341.2	330.8	317.0	283.9	243.7	215.8	206.1	211.9
65.0	286.5	300.7	298.4	298.1	289.6	263.8	230.4	204.0	193.8	200.5
67.5	256.2	266.2	263.2	264.7	261.0	242.6	216.5	192.2	181.5	189.0
70.0	223.8	232.3	228.1	230.6	231.7	220.3	202.0	180.3	169.2	177.6
72.5	194.1	199.2	193.4	196.3	201.8	197.1	187.1	168.3	157.0	166.1
75.0	166.8	166.9	158.8	161.8	171.3	173.1	171.7	156.4	144.7	154.6
77.5	141.4	135.4	115.2	106.9	105.0	98.45	91.61	79.58	72.33	78.70
80.0	78.32	57.61	39.83	28.66	20.06	11.61	5.155	1.171	0	1.158
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 4.000K

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	1884	1884	1884	1884	1884	1884	1884	1884	1884	1884
2.5	1873	1873	1874	1874	1874	1874	1875	1875	1876	1877
5.0	1862	1862	1862	1863	1863	1864	1864	1865	1866	1867
7.5	1850	1851	1851	1851	1851	1851	1852	1852	1853	1854
10.0	1839	1839	1839	1838	1838	1838	1838	1838	1838	1839
12.5	1827	1827	1826	1825	1824	1823	1822	1821	1821	1821
15.0	1816	1815	1813	1811	1809	1807	1805	1803	1802	1801
17.5	1778	1780	1783	1786	1790	1790	1786	1783	1779	1777
20.0	1738	1739	1741	1743	1747	1752	1758	1760	1755	1751
22.5	1698	1698	1699	1700	1702	1705	1710	1718	1729	1721
25.0	1657	1657	1656	1655	1655	1655	1658	1663	1673	1688
27.5	1617	1614	1612	1608	1605	1601	1599	1600	1607	1621
30.0	1576	1572	1567	1560	1552	1542	1533	1527	1528	1540
32.5	1460	1473	1490	1495	1495	1477	1458	1442	1436	1443
35.0	1330	1344	1361	1381	1398	1404	1372	1344	1329	1331
37.5	1201	1215	1233	1254	1271	1277	1267	1231	1208	1203
40.0	1072	1086	1106	1129	1145	1148	1133	1105	1076	1064
42.5	942.4	957.2	979.4	1004	1022	1023	1005	973.7	938.6	918.8
45.0	813.2	828.9	854.5	881.8	901.7	903.2	882.7	848.3	809.8	771.4
47.5	713.7	726.0	743.5	762.0	785.8	787.8	765.7	728.4	686.4	640.0
50.0	621.5	641.0	665.1	681.6	686.5	677.9	653.9	613.9	571.0	523.6
52.5	530.1	557.6	588.1	607.5	611.9	593.7	546.4	505.4	465.7	428.0
55.0	439.6	475.5	512.2	534.5	539.3	522.1	477.8	410.1	374.7	348.8
57.5	350.0	394.7	437.4	462.5	468.9	456.4	419.4	361.1	301.7	281.7
60.0	261.0	315.0	363.8	391.4	401.4	396.9	370.5	321.7	270.5	224.2
62.5	237.3	276.3	309.7	323.4	337.1	344.3	330.2	290.0	246.9	204.8
65.0	224.6	257.5	284.1	292.7	293.1	299.6	296.7	265.2	229.7	193.2
67.5	211.5	237.5	257.3	261.6	259.6	266.3	264.5	246.2	217.9	186.0
70.0	197.8	216.5	229.8	229.9	226.0	233.0	231.3	218.6	207.3	181.4
72.5	183.7	194.7	201.7	197.9	192.6	199.9	200.0	191.2	181.2	171.0
75.0	169.1	172.1	173.1	165.6	159.2	167.1	170.5	165.0	156.4	148.2
77.5	90.27	98.07	106.7	110.6	116.2	134.8	142.4	139.9	132.8	127.0
80.0	5.080	11.56	20.40	29.62	40.11	57.32	78.35	97.85	110.2	107.3
82.5	0	0	0	0	0	0	0	13.26	33.75	56.97
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	1884	1884	1884	1884	1884	1884	1884	1884	1884	1884
2.5	1877	1878	1879	1880	1881	1882	1883	1882	1881	1880
5.0	1868	1869	1870	1872	1873	1875	1877	1875	1873	1872
7.5	1855	1857	1859	1861	1863	1866	1868	1865	1863	1860
10.0	1840	1842	1843	1846	1849	1852	1856	1852	1848	1845
12.5	1822	1823	1824	1827	1830	1834	1839	1834	1830	1826
15.0	1800	1800	1801	1803	1806	1811	1816	1810	1806	1803
17.5	1775	1774	1774	1776	1779	1783	1789	1783	1778	1775
20.0	1747	1744	1743	1744	1747	1752	1759	1752	1747	1744
22.5	1715	1710	1708	1708	1711	1716	1724	1716	1711	1708
25.0	1679	1672	1667	1666	1668	1675	1685	1675	1669	1666
27.5	1638	1627	1620	1617	1619	1627	1640	1627	1620	1618
30.0	1565	1573	1561	1556	1557	1568	1586	1569	1560	1558
32.5	1466	1503	1485	1475	1478	1493	1519	1496	1484	1482
35.0	1348	1378	1384	1371	1375	1395	1429	1401	1387	1387
37.5	1213	1234	1263	1248	1248	1265	1300	1272	1263	1271
40.0	1066	1082	1111	1106	1095	1105	1139	1113	1111	1130
42.5	914.5	922.5	943.2	946.8	933.4	946.4	983.2	954.4	949.4	970.6
45.0	758.1	761.3	776.3	799.7	792.2	811.2	854.1	822.1	812.1	824.5
47.5	607.9	616.6	635.6	659.2	670.5	700.7	751.8	712.4	692.9	690.7
50.0	488.4	496.7	515.9	543.2	569.8	607.9	663.1	621.7	596.8	573.5
52.5	403.2	397.2	419.9	450.6	487.2	526.0	578.2	541.1	517.3	481.1
55.0	331.4	321.6	342.9	379.5	422.7	455.3	496.1	469.9	453.3	410.0
57.5	270.7	267.8	282.8	326.7	375.4	398.2	424.9	408.6	400.6	357.0
60.0	221.2	226.5	241.3	289.4	336.5	354.5	370.0	358.6	350.5	316.4
62.5	181.3	197.8	223.4	264.5	305.9	318.2	324.2	317.0	311.1	286.5
65.0	166.4	180.0	214.9	252.2	282.7	288.8	287.4	282.9	280.0	265.7
67.5	164.2	172.2	210.5	245.8	262.6	261.3	251.4	249.9	252.3	247.7
70.0	162.3	173.1	204.0	229.8	237.5	228.5	211.6	213.1	222.0	225.1
72.5	158.5	167.5	189.6	202.8	205.5	191.3	171.6	174.2	188.8	196.6
75.0	146.7	155.5	167.4	171.2	168.8	155.6	137.8	140.9	157.1	167.8
77.5	127.8	136.2	141.8	139.9	135.7	130.7	121.2	123.0	134.0	140.2

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 4.000K

Photometric Data Table [cd]

80.0	108.4	113.2	114.7	110.7	109.4	112.1	115.4	116.9	121.0	116.2
82.5	84.91	89.70	85.66	81.05	77.98	81.38	98.89	101.0	96.91	90.32
85.0	0	26.74	51.33	49.19	46.32	45.05	66.80	69.08	64.12	56.39
87.5	0	0	0	0	16.64	18.50	16.09	25.27	19.89	0
90.0	0	0	0	0	0	0	0.8267	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	1884	1884	1884	1884	1884	1884	1884	1884	1884	1884
2.5	1879	1878	1877	1876	1876	1875	1875	1874	1874	1874
5.0	1870	1868	1867	1866	1865	1864	1863	1863	1862	1862
7.5	1858	1856	1855	1853	1852	1851	1851	1850	1850	1850
10.0	1843	1841	1839	1838	1837	1837	1836	1836	1837	1837
12.5	1824	1822	1821	1820	1820	1820	1821	1821	1822	1823
15.0	1801	1799	1799	1799	1800	1801	1803	1805	1807	1809
17.5	1774	1773	1774	1775	1778	1781	1784	1787	1787	1783
20.0	1743	1744	1746	1750	1754	1758	1756	1749	1745	1741
22.5	1708	1710	1715	1720	1727	1717	1709	1703	1700	1698
25.0	1668	1672	1679	1688	1673	1663	1657	1654	1653	1653
27.5	1621	1628	1638	1623	1609	1602	1600	1601	1604	1607
30.0	1564	1575	1568	1546	1535	1533	1537	1544	1551	1559
32.5	1491	1508	1474	1455	1448	1453	1466	1481	1496	1509
35.0	1400	1391	1362	1347	1348	1362	1385	1411	1401	1383
37.5	1291	1257	1233	1225	1233	1257	1286	1284	1274	1258
40.0	1141	1110	1092	1090	1105	1134	1149	1154	1146	1133
42.5	970.0	948.0	940.6	946.3	967.8	992.6	1015	1025	1021	1008
45.0	800.2	783.8	779.7	795.9	826.6	855.2	882.7	898.7	896.3	882.9
47.5	658.9	636.0	626.5	654.2	693.0	722.9	753.1	774.5	774.3	759.5
50.0	538.4	513.5	503.0	530.6	568.6	597.4	627.4	652.3	670.3	677.3
52.5	441.1	412.4	412.4	430.5	456.6	480.5	506.2	565.2	596.6	602.5
55.0	364.6	333.7	338.0	347.3	361.3	380.0	442.0	495.6	525.4	529.8
57.5	306.9	281.0	277.2	278.1	285.3	336.3	389.0	432.6	457.2	458.9
60.0	269.5	242.3	227.2	220.0	256.0	300.3	344.9	376.8	392.1	389.5
62.5	250.3	215.1	188.5	200.2	232.7	270.4	308.2	328.2	331.0	323.7
65.0	236.3	196.7	172.7	187.5	214.4	245.9	277.2	287.4	290.0	293.5
67.5	225.2	186.0	168.7	177.9	200.6	226.1	248.7	258.6	260.0	263.3
70.0	213.7	184.0	165.2	170.4	188.6	203.8	220.9	230.3	230.4	233.0
72.5	195.3	176.2	160.1	160.3	169.5	182.6	195.1	202.5	201.3	202.9
75.0	169.7	161.6	149.5	143.6	151.4	162.9	171.3	175.2	172.6	173.0
77.5	142.6	140.5	133.6	127.9	134.1	144.4	149.2	148.5	131.2	117.4
80.0	114.7	116.5	115.8	112.7	117.4	105.2	83.75	63.05	45.34	31.57
82.5	85.30	91.72	92.51	61.40	36.10	14.24	0	0	0	0
85.0	50.91	27.13	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	1884	1884	1884	1884	1884	1884	1884	1884	1884	1884
2.5	1873	1873	1873	1872	1872	1872	1872	1873	1873	1873
5.0	1861	1861	1861	1861	1861	1861	1861	1861	1861	1861
7.5	1849	1849	1849	1849	1849	1849	1849	1848	1848	1849
10.0	1837	1837	1837	1837	1837	1837	1836	1836	1836	1835
12.5	1824	1825	1825	1826	1825	1825	1824	1823	1822	1821
15.0	1811	1812	1813	1814	1814	1813	1812	1810	1808	1806
17.5	1780	1778	1776	1775	1774	1774	1775	1776	1777	1780
20.0	1739	1738	1736	1736	1735	1735	1735	1735	1736	1738
22.5	1697	1697	1697	1697	1696	1695	1695	1694	1694	1694
25.0	1655	1656	1657	1657	1656	1656	1654	1653	1651	1649
27.5	1611	1614	1616	1618	1618	1616	1614	1611	1607	1603
30.0	1566	1572	1576	1578	1577	1573	1569	1569	1563	1555
32.5	1491	1475	1463	1456	1453	1454	1460	1471	1487	1505
35.0	1365	1349	1338	1330	1327	1328	1334	1345	1360	1377
37.5	1239	1224	1212	1205	1202	1203	1208	1218	1232	1249
40.0	1114	1098	1086	1079	1076	1077	1081	1091	1105	1122
42.5	989.6	972.4	960.2	953.5	950.4	950.6	954.9	963.6	978.0	995.8
45.0	865.6	847.0	834.4	827.8	824.8	824.7	828.4	836.7	851.8	870.8
47.5	754.0	744.7	735.4	729.1	725.7	725.4	728.2	733.2	739.0	747.3
50.0	673.8	658.7	642.9	631.9	626.6	627.6	634.6	646.6	659.6	666.9
52.5	595.3	574.2	551.3	534.9	527.5	529.9	541.9	561.9	582.5	594.5
55.0	518.1	491.1	460.5	438.1	428.4	432.5	450.0	478.8	507.2	524.3
57.5	442.4	409.3	370.6	341.6	329.2	335.2	359.1	397.3	433.7	455.9
60.0	368.4	328.7	281.4	245.3	230.1	238.2	268.9	317.3	361.6	388.8
62.5	314.0	288.0	254.8	228.6	217.0	222.6	243.9	278.4	309.1	324.9
65.0	287.4	266.9	238.9	214.9	204.0	210.2	230.1	259.4	284.3	295.0
67.5	259.9	245.0	222.4	201.1	190.9	197.7	215.8	239.4	258.4	265.0
70.0	232.0	222.2	205.6	187.3	177.8	185.1	201.2	218.5	231.9	234.5

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 4.000K

Photometric Data Table [cd]

72.5	203.6	198.8	188.2	173.3	164.7	172.5	186.1	196.8	204.8	204.2
75.0	174.9	174.9	170.6	159.3	151.7	159.9	170.7	174.6	177.1	173.8
77.5	107.9	99.54	90.90	81.02	75.83	81.35	91.07	99.55	109.6	117.7
80.0	20.64	11.74	5.115	1.192	0	1.196	5.125	11.74	20.97	31.63
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	1884	1884	1884	1884	1884	1884	1884	1884	1884	1884
2.5	1873	1874	1874	1875	1875	1876	1877	1877	1878	1879
5.0	1861	1862	1863	1863	1864	1865	1866	1868	1869	1871
7.5	1849	1849	1849	1850	1851	1852	1853	1854	1856	1858
10.0	1835	1834	1834	1834	1835	1835	1837	1838	1840	1843
12.5	1820	1819	1818	1817	1816	1817	1817	1818	1820	1823
15.0	1804	1801	1799	1797	1796	1795	1794	1795	1796	1799
17.5	1784	1783	1779	1775	1772	1770	1768	1768	1768	1771
20.0	1740	1744	1750	1752	1746	1742	1739	1736	1736	1737
22.5	1695	1698	1702	1709	1718	1711	1705	1701	1699	1700
25.0	1648	1648	1650	1654	1663	1676	1667	1661	1657	1656
27.5	1598	1595	1592	1592	1597	1610	1624	1613	1607	1604
30.0	1546	1537	1528	1522	1522	1530	1551	1556	1545	1540
32.5	1490	1473	1456	1440	1432	1437	1453	1482	1466	1458
35.0	1394	1403	1373	1346	1330	1326	1337	1361	1367	1357
37.5	1265	1275	1273	1240	1212	1200	1205	1224	1252	1236
40.0	1137	1144	1137	1116	1083	1065	1065	1076	1105	1098
42.5	1011	1016	1005	977.7	946.2	924.4	915.0	921.5	940.2	939.4
45.0	886.8	891.7	876.8	845.8	813.2	777.6	762.0	760.6	768.2	783.9
47.5	766.1	771.5	753.0	721.2	687.4	645.2	609.9	610.4	623.2	646.5
50.0	664.8	655.0	634.7	604.1	569.3	524.8	485.5	488.1	504.9	530.7
52.5	594.1	571.4	522.7	494.9	462.5	424.2	396.9	388.5	410.3	439.3
55.0	525.2	502.2	457.5	399.1	368.5	341.9	324.4	314.9	335.7	370.9
57.5	458.2	438.1	402.1	352.6	293.2	274.5	265.6	263.9	278.9	320.8
60.0	393.4	380.6	355.8	314.4	262.4	218.5	218.9	226.4	240.1	283.7
62.5	331.5	329.5	317.4	284.1	239.3	200.8	183.0	200.9	222.6	257.3
65.0	289.5	286.2	286.2	259.9	222.8	190.5	170.0	184.8	212.8	241.8
67.5	258.9	257.6	258.1	240.9	211.8	183.8	167.0	177.0	205.7	232.6
70.0	228.8	229.4	229.5	215.1	202.3	178.5	163.8	175.1	197.1	218.0
72.5	199.4	201.6	201.6	190.1	179.0	167.6	159.3	168.0	184.5	195.0
75.0	170.4	174.1	174.7	166.7	156.3	146.2	148.0	156.5	164.1	167.2
77.5	129.2	146.8	149.0	144.4	134.4	126.2	129.7	137.8	138.2	137.1
80.0	44.65	62.40	82.77	103.0	113.4	107.2	110.8	113.9	110.7	110.0
82.5	0	0	0	13.93	34.74	56.99	87.68	89.08	82.72	82.59
85.0	0	0	0	0	0	0	0	26.36	49.39	49.42
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	1884	1884								
2.5	1880	1881								
5.0	1872	1874								
7.5	1861	1864								
10.0	1846	1850								
12.5	1826	1831								
15.0	1802	1807								
17.5	1774	1779								
20.0	1741	1747								
22.5	1703	1710								
25.0	1660	1667								
27.5	1608	1617								
30.0	1544	1557								
32.5	1463	1478								
35.0	1361	1379								
37.5	1236	1251								
40.0	1086	1094								
42.5	920.9	931.5								
45.0	776.8	796.3								
47.5	657.2	686.4								
50.0	555.9	593.4								
52.5	474.8	513.8								
55.0	412.0	444.4								
57.5	365.4	386.5								
60.0	325.5	340.6								
62.5	293.2	304.5								

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 4.000K

Photometric Data Table [cd]

65.0	268.5	274.0
67.5	246.8	246.3
70.0	222.2	213.8
72.5	192.5	178.3
75.0	161.3	147.3
77.5	133.5	126.6
80.0	114.0	115.0
82.5	86.77	93.14
85.0	53.94	56.30
87.5	15.89	18.52
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 4.000K