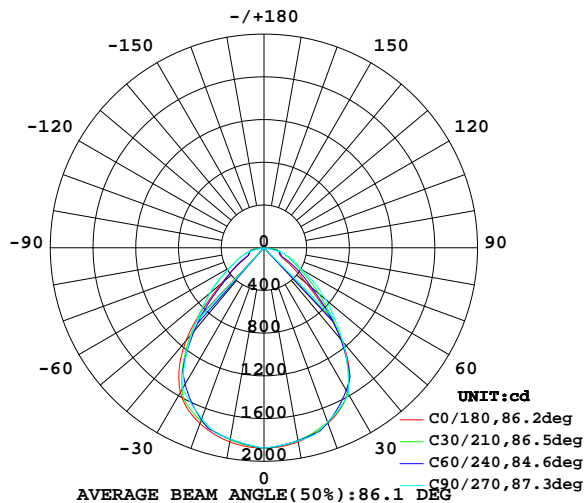


## LUMINAIRE PHOTOMETRIC TEST REPORT

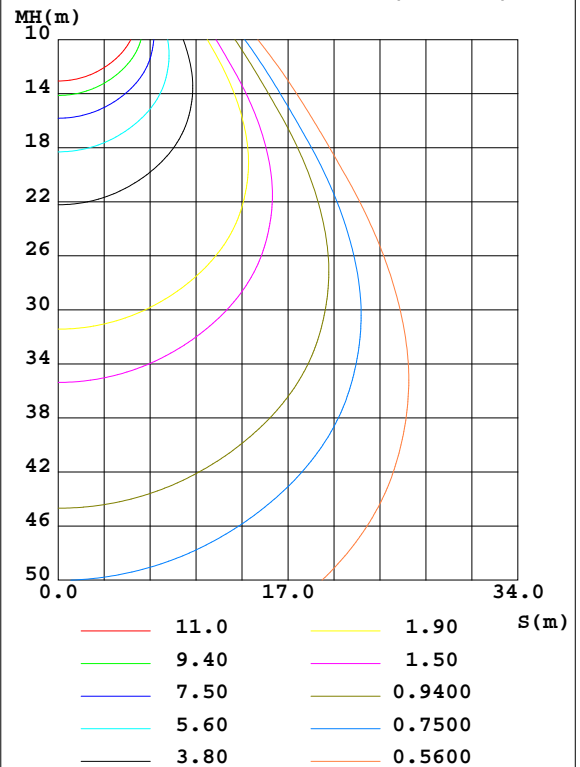
Test:U:229.9V I:0.1362A P:30.62W PF:0.9775 Lamp Flux:3729.52x1 lm		
NAME: IL-PD195US 4.000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:288*1188	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 121.81 lm/W			
MODEL	IL-PD195US 4.000K	Imax(cd)	1876	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)	3729.5	$\eta$ UP,DN(C0-180)	0.0,51.2
NOMINAL FLUX(lm)	3729.52	CIE CLASS	DIRECT	$\eta$ UP,DN(C180-360)	0.0,48.8
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)



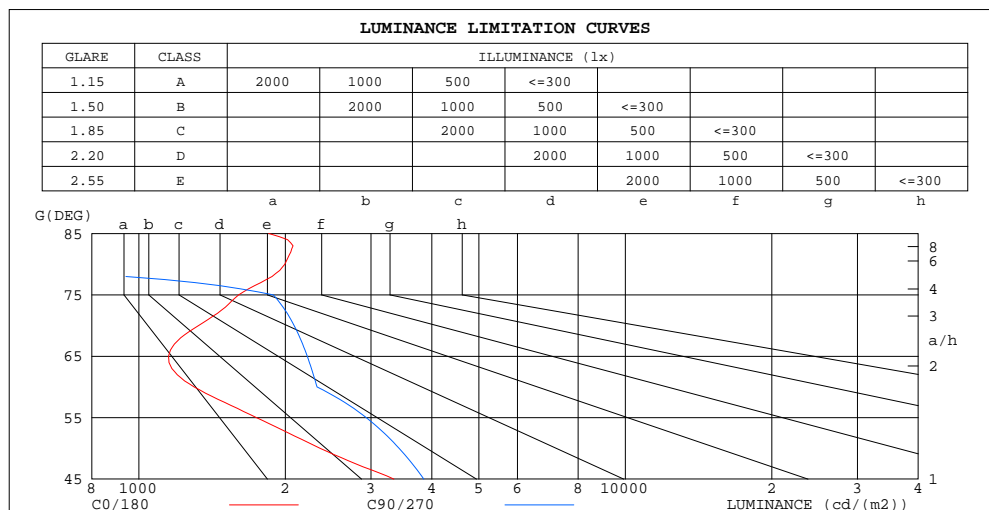
C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2023-08-14

$\gamma$  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-PD195US 4.000K

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	1868	1858	1856	1858	1869	1852	1848	1852	0- 5	44.57	44.57	1.2,1.2
10	1844	1832	1836	1833	1846	1822	1819	1820	5- 10	131.8	176.4	4.73,4.73
15	1804	1797	1816	1800	1806	1783	1791	1780	10- 15	214.9	391.4	10.5,10.5
20	1749	1754	1739	1758	1751	1736	1701	1731	15- 20	290.8	682.2	18.3,18.3
25	1676	1655	1662	1659	1677	1622	1612	1619	20- 25	354.3	1036	27.8,27.8
30	1563	1525	1585	1527	1565	1471	1522	1470	25- 30	402.2	1439	38.6,38.6
35	1389	1362	1367	1362	1385	1282	1288	1285	30- 35	424.4	1863	50,50
40	1136	1148	1150	1145	1138	1049	1054	1055	35- 40	406.9	2270	60.9,60.9
45	809.1	867.9	932.0	858.8	807.2	779.7	820.1	779.6	40- 45	354.7	2625	70.4,70.4
50	519.0	627.7	753.8	611.4	516.5	555.5	664.8	542.1	45- 50	285.5	2910	78,78
55	342.6	442.2	575.7	414.9	335.6	384.5	509.5	355.8	50- 55	223.1	3133	84,84
60	222.2	358.1	397.5	329.9	214.6	320.4	354.2	293.2	55- 60	170.8	3304	88.6,88.6
65	166.4	282.9	320.8	260.8	161.8	261.0	283.2	240.6	60- 65	131.2	3435	92.1,92.1
70	155.1	224.9	244.0	212.5	146.3	209.6	212.1	196.8	65- 70	110.1	3545	95.1,95.1
75	142.0	178.3	167.3	172.5	138.5	161.7	141.1	156.7	70- 75	93.48	3639	97.6,97.6
80	118.6	108.5	0	104.8	112.2	93.21	0	94.35	75- 80	65.44	3704	99.3,99.3
85	55.13	0	0	0	56.44	0	0	0	80- 85	22.68	3727	99.9,99.9
90	0.5153	0	0	0	0.6329	0	0	0	85- 90	2.561	3730	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		



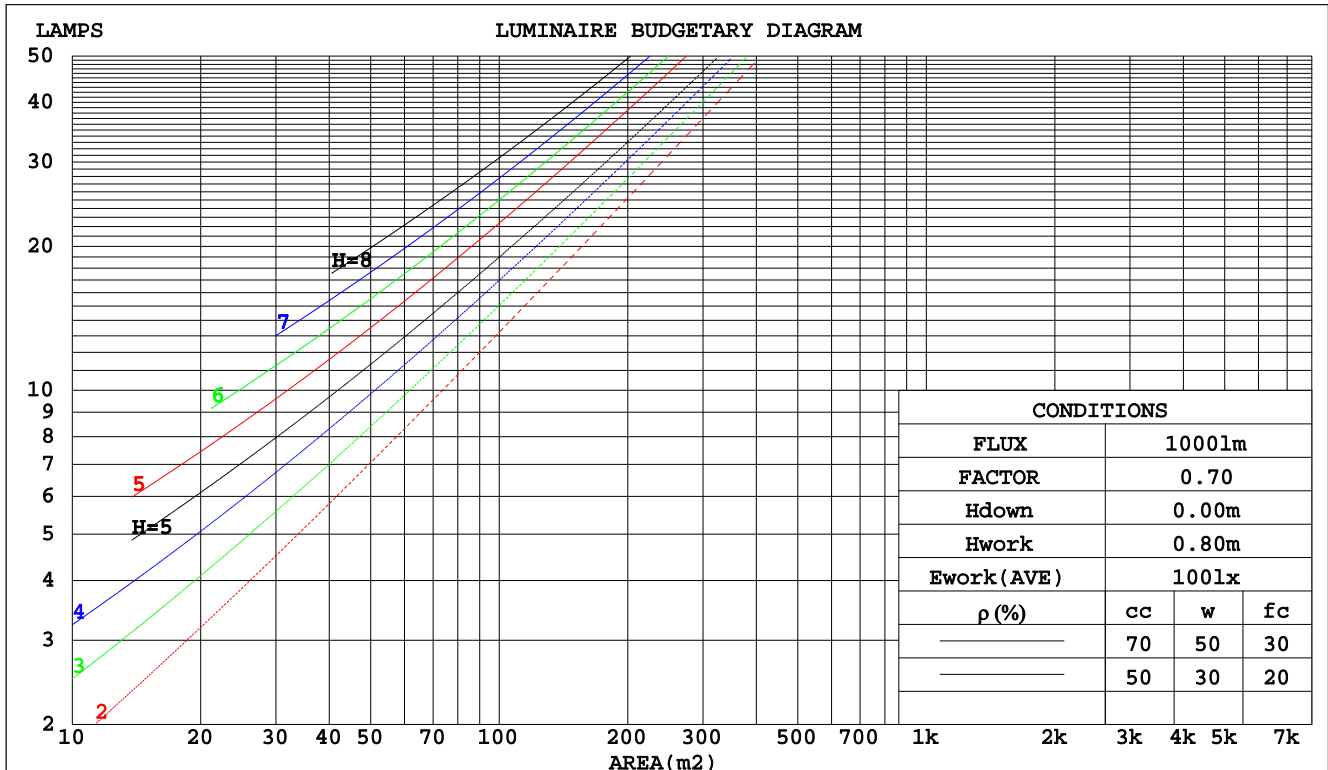
C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: DAMIN  
Test Date: 2023-08-14

$\gamma$  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-PD195US 4.000K

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:229.9V I:0.1362A P:30.62W PF:0.9775 Lamp Flux:3729.52x1 lm		
NAME: IL-PD195US 4.000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:288*1188	PROTECTION ANGLE:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Coefficients of Utilization(CU)												
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	.00
1.0	1.07	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	.85	.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	.64	.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	.41	.37	.47	.41	.37	.46	.41	.36	.35
10.0	.46	.39	.34	.46	.39	.34	.45	.38	.34	.44	.38	.34	.43	.37	.34	.32



C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2023-08-14

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-PD195US 4.000K

## WEC AND CCEC

Test:U:229.9V I:0.1362A P:30.62W PF:0.9775 Lamp Flux:3729.52x1 lm		
NAME: IL-PD195US 4.000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:288*1188	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	.257	.146	.046	.250	.142	.045	.237	.136	.043	.225	.130	.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	.188	.102	.031		
5.0	.203	.103	.030	.199	.102	.030	.191	.099	.029	.184	.097	.029	.177	.095	.028		
6.0	.190	.095	.027	.187	.094	.027	.180	.092	.027	.173	.090	.026	.167	.088	.026		
7.0	.179	.088	.025	.176	.087	.025	.169	.086	.025	.164	.084	.024	.158	.082	.024		
8.0	.168	.082	.023	.166	.082	.023	.160	.080	.023	.155	.079	.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	.071	.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	.060	.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:2023-08-14

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-PD195US 4.000K

## UGR(Unified Glare Rating) Table

Test:U:229.9V I:0.1362A P:30.62W PF:0.9775 Lamp Flux:3729.52x1 lm										
NAME: IL-PD195US 4.000K					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:		
MFR.: EVERFINE					SUR.:288*1188			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	14.9	16.2	15.1	16.4	16.6	15.4	16.7	15.6	16.9	17.1
3H	15.6	16.8	15.9	17.0	17.3	16.4	17.6	16.7	17.8	18.0
4H	16.1	17.3	16.4	17.5	17.8	16.9	18.1	17.2	18.3	18.6
6H	16.7	17.8	17.0	18.1	18.3	17.0	18.1	17.3	18.4	18.6
8H	17.0	18.0	17.3	18.3	18.6	17.0	18.0	17.3	18.3	18.6
12H	17.2	18.2	17.5	18.4	18.7	16.9	17.9	17.2	18.2	18.5
4H 2H	15.3	16.4	15.6	16.7	16.9	15.6	16.8	15.9	17.0	17.3
3H	16.4	17.4	16.7	17.7	18.0	16.8	17.8	17.1	18.1	18.4
4H	17.1	18.0	17.5	18.3	18.7	17.5	18.4	17.8	18.7	19.0
6H	17.9	18.7	18.3	19.1	19.4	17.6	18.4	18.0	18.8	19.1
8H	18.2	19.0	18.6	19.3	19.7	17.6	18.3	18.0	18.7	19.0
12H	18.5	19.2	18.9	19.6	20.0	17.5	18.2	17.9	18.6	19.0
8H 4H	17.4	18.2	17.8	18.6	18.9	17.8	18.5	18.2	18.9	19.3
6H	18.5	19.1	18.9	19.5	19.9	17.9	18.6	18.4	19.0	19.4
8H	19.0	19.5	19.4	19.9	20.4	17.9	18.4	18.4	18.9	19.3
12H	19.4	19.8	19.8	20.3	20.7	17.9	18.3	18.3	18.8	19.2
12H 4H	17.4	18.1	17.8	18.5	18.9	17.8	18.5	18.2	18.9	19.3
6H	18.5	19.0	18.9	19.5	19.9	18.0	18.6	18.5	19.0	19.4
8H	19.0	19.5	19.5	19.9	20.4	18.0	18.4	18.4	18.9	19.3
Variations with the observer position at spacings:										
S = 1.0H	+ 0.4 / - 0.4					+ 0.4 / - 0.5				
1.5H	+ 0.2 / - 0.6					+ 0.4 / - 0.7				
2.0H	+ 0.6 / - 1.0					+ 1.1 / - 1.4				

CIE Pub.117 Corrected 3730 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:2023-08-14

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-PD195US 4.000K

## UTILIZATION FACTORS TABLE

Test:U:229.9V I:0.1362A P:30.62W PF:0.9775 Lamp Flux:3729.52x1 lm		
NAME: IL-PD195US 4.000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:288*1188	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	51	67	57	51	65	57	51	46
0.80	77	67	61	76	67	61	74	66	60	55
1.00	84	75	69	83	75	69	81	75	68	62
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	87	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	99	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:2023-08-14

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-PD195US 4.000K

## ISOCANDELA DIAGRAM

Test:U:229.9V I:0.1362A P:30.62W PF:0.9775 Lamp Flux:3729.52x1 lm		
NAME: IL-PD195US 4.000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:288*1188	PROTECTION ANGLE:

Conical surface Flux(90deg):

2624.6 lm

%lum = 70.4%

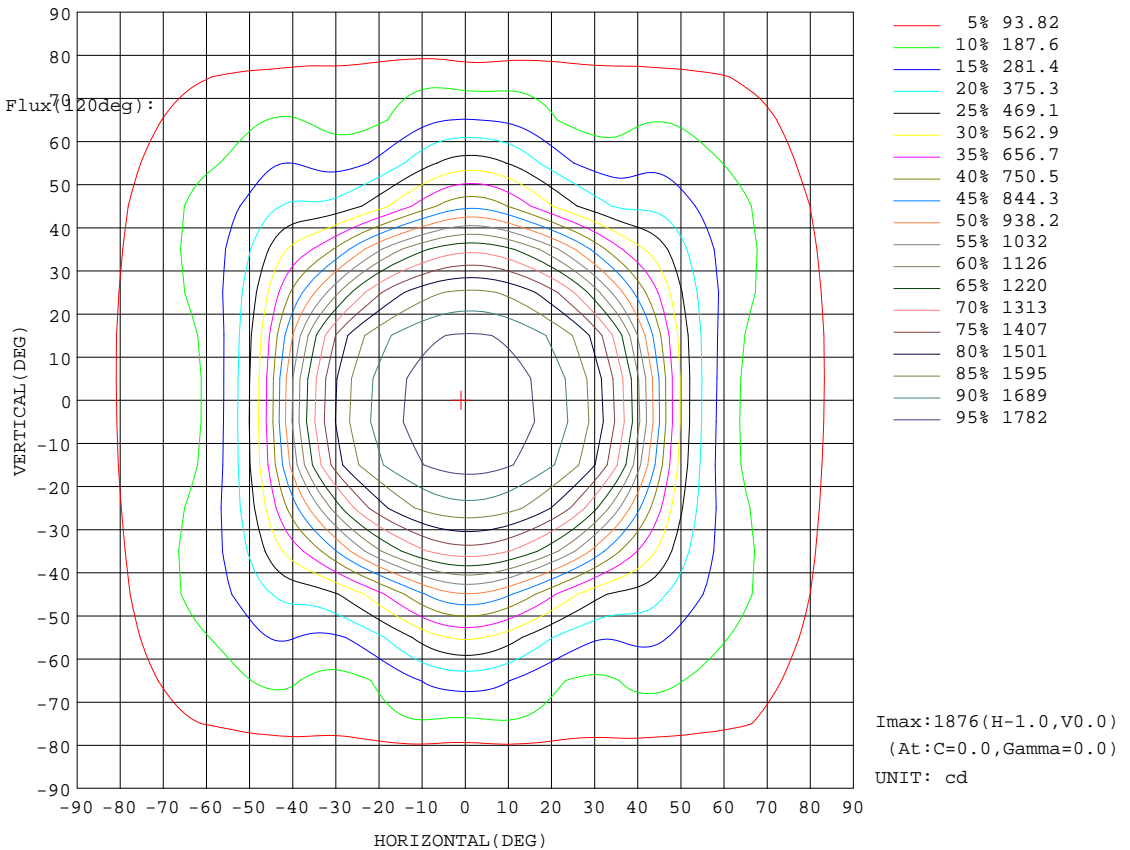
%lamp = 70.4%

Conical surface Flux(70deg):

3304 lm

%lum = 88.6%

%lamp = 88.6%



C Range: 0 - 360DEG

C Interval: 5.0DEG

Test Speed: HIGH

Temperature:25.3DEG

Operators:DAMIN

Test Date:2023-08-14

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

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

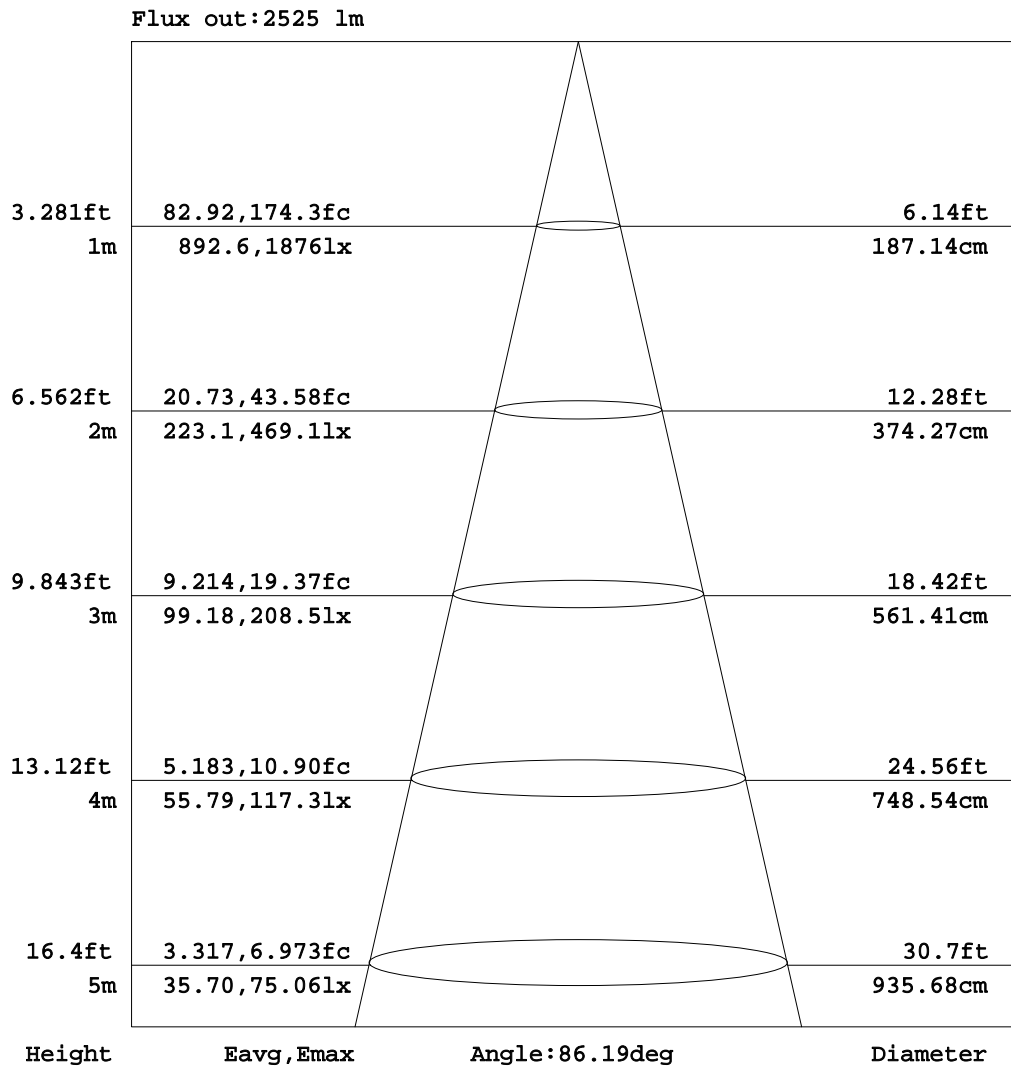
Humidity:65.0%

Test Distance:13.420m [K=1.0000]

Remarks: IL-PD195US 4.000K

### AAI Figure

Test:U:229.9V I:0.1362A P:30.62W PF:0.9775 Lamp Flux:3729.52x1 lm		
NAME: IL-PD195US 4.000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:288*1188	PROTECTION ANGLE:



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

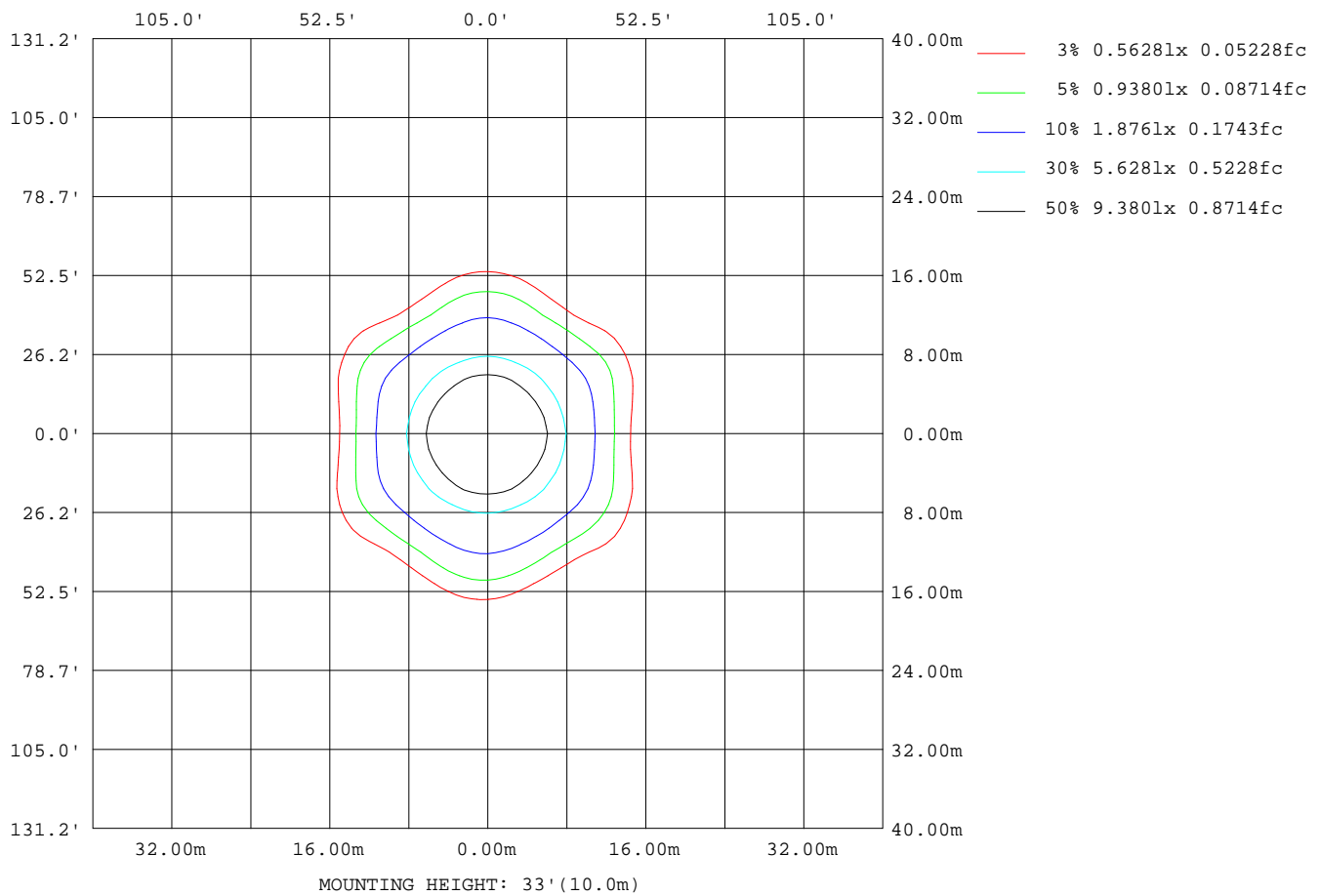
C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2023-08-14

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-PD195US 4.000K



## ISOLUX DIAGRAM

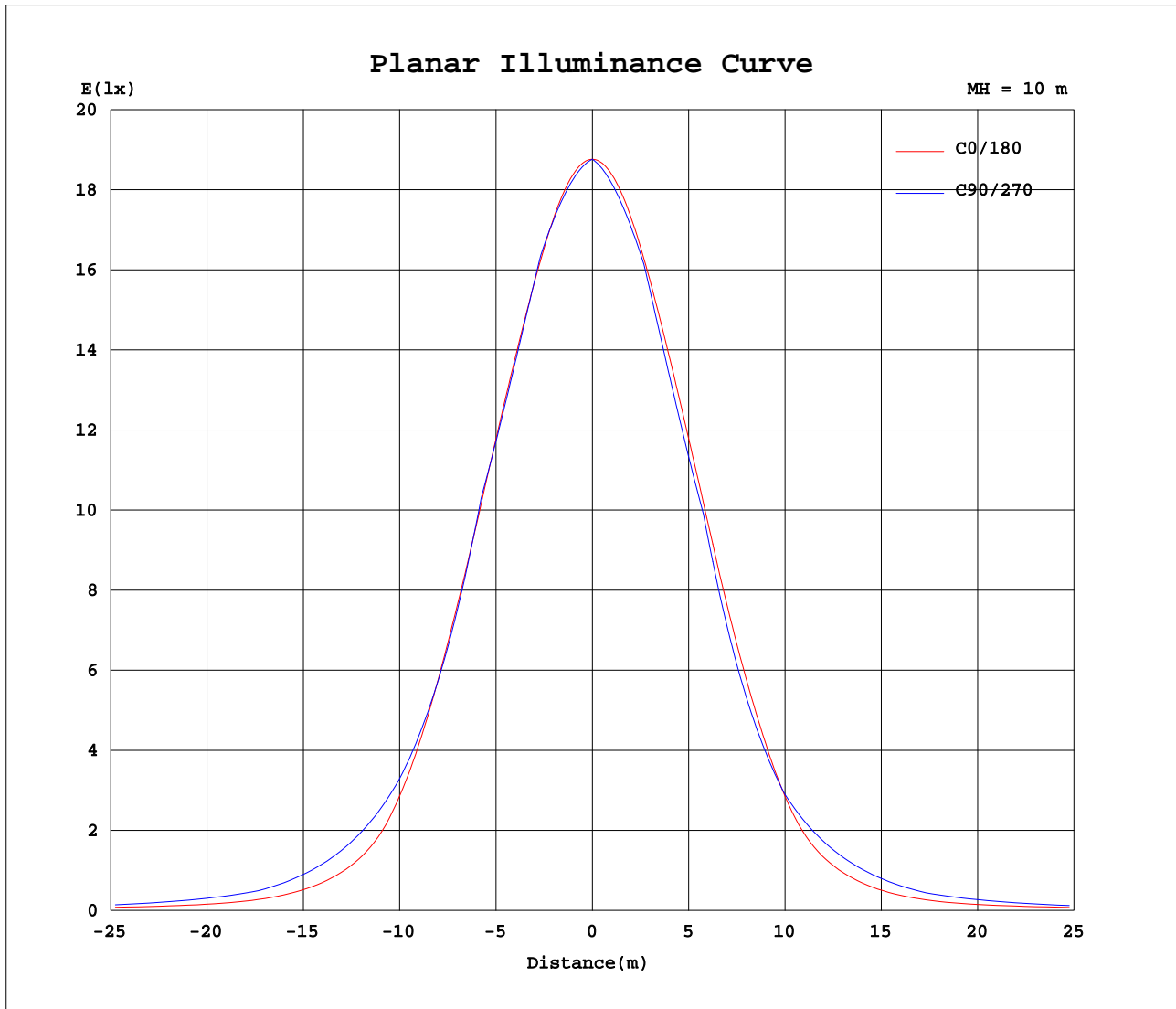
Test:U:229.9V I:0.1362A P:30.62W PF:0.9775 Lamp Flux:3729.52x1 lm		
NAME: IL-PD195US 4.000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:288*1188	PROTECTION ANGLE:



C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: DAMIN  
Test Date: 2023-08-14

$\gamma$  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-PD195US 4.000K

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: DAMIN  
Test Date: 2023-08-14

$\gamma$  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-PD195US 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	1876	1876	1876	1876	1876	1876	1876	1876	1876	1876
2.5	1874	1874	1873	1872	1871	1871	1870	1869	1869	1868
5.0	1868	1867	1865	1864	1862	1861	1860	1859	1859	1858
7.5	1858	1856	1854	1852	1850	1849	1848	1847	1846	1846
10.0	1844	1841	1838	1836	1834	1833	1832	1832	1832	1832
12.5	1826	1822	1818	1816	1814	1813	1813	1814	1814	1816
15.0	1804	1799	1795	1792	1791	1790	1791	1792	1794	1797
17.5	1778	1772	1768	1765	1764	1764	1766	1769	1772	1776
20.0	1749	1742	1737	1735	1734	1735	1738	1742	1748	1754
22.5	1716	1708	1703	1700	1700	1702	1707	1713	1721	1711
25.0	1676	1666	1660	1659	1660	1665	1672	1681	1666	1655
27.5	1626	1615	1609	1608	1612	1620	1632	1617	1602	1594
30.0	1563	1550	1543	1545	1553	1567	1562	1541	1529	1525
32.5	1482	1467	1461	1466	1479	1498	1471	1454	1446	1448
35.0	1389	1370	1364	1372	1391	1389	1366	1354	1353	1362
37.5	1275	1253	1248	1260	1287	1267	1250	1243	1248	1266
40.0	1136	1112	1109	1127	1148	1136	1127	1125	1135	1148
42.5	977.8	958.2	961.5	984.5	998.8	1001	1001	1005	1013	1004
45.0	809.1	797.8	811.1	843.2	859.6	871.7	879.4	885.1	879.9	867.9
47.5	644.9	642.0	664.7	703.7	733.1	756.5	769.9	769.4	759.9	741.9
50.0	519.0	518.5	539.2	576.0	616.8	655.3	673.1	670.8	654.5	627.7
52.5	423.1	423.3	442.2	473.4	515.0	563.5	586.4	584.8	564.5	526.4
55.0	342.6	345.2	365.8	395.9	435.1	478.4	505.4	510.3	487.4	442.2
57.5	275.6	280.3	299.7	335.0	374.6	406.9	433.0	442.5	422.5	398.4
60.0	222.2	229.6	250.7	287.9	327.1	352.5	373.6	381.4	381.6	358.1
62.5	187.1	194.3	215.7	253.4	287.2	311.2	327.8	338.1	342.1	319.7
65.0	166.4	173.1	193.0	228.1	256.4	280.1	291.2	298.8	303.3	282.9
67.5	157.1	163.4	181.4	207.3	231.7	254.9	257.6	263.1	266.9	247.3
70.0	155.1	162.5	177.0	192.5	212.7	223.8	226.6	230.3	233.6	224.9
72.5	152.0	160.2	173.8	180.1	193.1	196.0	197.5	201.2	206.5	202.3
75.0	142.0	147.9	160.2	166.5	171.1	172.5	171.9	176.3	180.4	178.3
77.5	135.3	135.8	141.2	145.8	150.5	151.4	150.1	152.8	155.3	153.4
80.0	118.6	115.8	120.1	122.6	127.5	129.4	129.1	130.4	131.1	108.5
82.5	92.09	88.00	90.69	94.52	100.8	107.2	104.0	69.69	40.38	14.78
85.0	55.13	54.02	61.58	62.49	66.18	32.90	0	0	0	0
87.5	11.81	21.40	25.60	0	0	0	0	0	0	0
90.0	0.5153	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	1876	1876	1876	1876	1876	1876	1876	1876	1876	1876
2.5	1868	1867	1867	1867	1867	1867	1866	1866	1866	1866
5.0	1858	1857	1857	1857	1857	1856	1856	1856	1856	1856
7.5	1846	1846	1846	1846	1846	1846	1846	1846	1846	1846
10.0	1832	1833	1834	1834	1835	1836	1836	1836	1836	1836
12.5	1817	1819	1820	1822	1823	1824	1825	1826	1826	1826
15.0	1800	1803	1806	1809	1811	1813	1815	1816	1816	1816
17.5	1781	1786	1788	1784	1781	1779	1778	1778	1778	1778
20.0	1753	1747	1744	1741	1740	1739	1739	1739	1739	1739
22.5	1703	1699	1697	1697	1697	1698	1699	1700	1701	1701
25.0	1649	1647	1647	1650	1654	1657	1660	1661	1662	1662
27.5	1590	1591	1595	1602	1609	1615	1619	1622	1623	1623
30.0	1526	1532	1541	1551	1562	1572	1579	1583	1585	1584
32.5	1456	1468	1482	1498	1487	1481	1477	1476	1476	1477
35.0	1378	1399	1385	1372	1365	1363	1364	1366	1367	1368
37.5	1282	1265	1251	1243	1241	1245	1250	1256	1258	1258
40.0	1137	1125	1115	1115	1115	1124	1136	1145	1150	1149
42.5	994.5	984.3	977.6	978.8	987.6	1003	1020	1034	1041	1038
45.0	855.8	844.9	839.1	844.0	858.5	880.2	904.0	922.9	932.0	928.2
47.5	723.1	708.1	701.1	708.2	739.2	775.2	807.8	831.9	842.9	838.2
50.0	598.2	575.6	583.0	612.5	647.1	682.8	716.4	741.8	753.8	749.1
52.5	482.7	486.8	501.7	525.4	556.5	591.2	625.3	651.7	664.8	660.1
55.0	422.3	417.2	424.4	441.2	467.5	500.2	534.4	561.6	575.7	571.1
57.5	369.2	352.5	350.8	359.9	380.2	410.1	443.9	471.5	486.6	482.2
60.0	321.4	292.6	281.0	281.5	294.8	320.7	353.7	381.5	397.5	393.3
62.5	278.0	237.2	214.3	208.4	236.7	275.2	315.6	344.8	359.2	353.8
65.0	237.7	190.7	183.6	195.1	219.8	253.2	287.5	310.6	320.8	316.4
67.5	214.4	182.8	173.7	182.5	203.9	232.2	260.0	276.6	282.4	279.3
70.0	201.7	174.3	164.0	170.6	188.9	212.2	233.1	242.9	244.0	242.3
72.5	186.2	164.5	154.7	159.2	174.5	193.0	206.9	209.4	205.6	205.4
75.0	168.4	153.6	145.3	148.3	160.8	174.6	181.1	176.1	167.3	168.7
77.5	149.0	141.4	120.4	106.6	102.0	99.93	96.06	89.37	83.64	85.54
80.0	83.75	60.63	41.65	28.67	19.47	11.77	5.400	1.314	0	1.258
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: 2023-08-14

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-PD195US 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	1876	1876	1876	1876	1876	1876	1876	1876	1876	1876
2.5	1866	1867	1867	1867	1867	1868	1868	1868	1869	1869
5.0	1856	1857	1857	1857	1857	1857	1858	1858	1859	1860
7.5	1846	1846	1846	1846	1846	1846	1846	1847	1847	1848
10.0	1836	1836	1835	1835	1834	1834	1833	1833	1833	1833
12.5	1826	1825	1824	1823	1821	1820	1818	1817	1817	1816
15.0	1815	1814	1812	1810	1808	1805	1802	1800	1797	1796
17.5	1779	1780	1782	1785	1790	1789	1785	1780	1776	1772
20.0	1740	1741	1742	1743	1747	1751	1757	1758	1752	1746
22.5	1700	1700	1700	1700	1701	1703	1707	1715	1726	1718
25.0	1661	1659	1657	1654	1652	1651	1653	1659	1670	1685
27.5	1621	1617	1613	1606	1600	1595	1593	1596	1605	1621
30.0	1581	1575	1567	1556	1544	1534	1528	1527	1532	1545
32.5	1480	1485	1492	1503	1485	1469	1457	1449	1449	1458
35.0	1368	1369	1370	1375	1386	1399	1379	1362	1354	1357
37.5	1256	1251	1245	1244	1250	1264	1281	1264	1248	1244
40.0	1142	1130	1118	1110	1113	1122	1134	1145	1132	1123
42.5	1028	1009	989.2	975.7	974.2	979.7	989.1	998.3	1006	1001
45.0	912.6	885.2	858.0	839.7	834.1	837.8	848.2	858.8	870.8	882.0
47.5	817.8	781.5	737.6	702.7	693.9	698.9	712.8	729.5	748.0	766.1
50.0	728.0	691.6	648.4	609.3	574.7	564.1	585.2	611.4	639.7	666.0
52.5	638.7	602.9	560.9	524.5	494.2	474.8	466.3	504.9	546.0	580.2
55.0	549.9	515.1	475.3	442.0	417.5	405.2	403.9	414.9	466.3	506.0
57.5	461.5	428.3	391.4	361.9	344.5	340.1	348.0	369.8	400.9	440.3
60.0	373.7	342.4	308.9	284.5	275.0	279.3	297.6	329.9	365.6	382.6
62.5	332.7	295.9	251.5	212.3	208.4	222.3	251.7	294.0	331.8	343.2
65.0	300.8	270.6	232.2	198.3	177.5	174.3	209.7	260.8	298.9	306.8
67.5	269.6	246.5	214.5	185.2	167.4	166.0	187.6	229.3	267.1	272.3
70.0	239.0	223.5	197.9	173.3	157.7	157.8	178.6	212.5	236.8	239.8
72.5	209.0	201.4	182.4	162.1	148.4	149.1	167.7	194.0	209.7	208.6
75.0	179.6	180.0	167.7	151.4	139.2	139.9	154.7	172.5	181.6	179.0
77.5	95.20	102.8	106.3	109.0	115.2	130.0	139.8	148.8	153.5	151.0
80.0	5.357	12.12	20.30	29.24	39.71	55.72	79.48	104.8	125.7	124.5
82.5	0	0	0	0	0	0	0	14.26	38.59	64.99
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	1876	1876	1876	1876	1876	1876	1876	1876	1876	1876
2.5	1870	1871	1871	1872	1873	1874	1874	1873	1872	1871
5.0	1861	1862	1863	1864	1866	1867	1869	1867	1864	1862
7.5	1849	1850	1851	1853	1855	1857	1859	1856	1853	1850
10.0	1834	1835	1836	1838	1840	1843	1846	1841	1837	1833
12.5	1815	1816	1817	1818	1821	1824	1828	1822	1817	1813
15.0	1794	1793	1794	1795	1798	1802	1806	1800	1794	1789
17.5	1770	1768	1768	1769	1771	1775	1781	1773	1766	1761
20.0	1742	1739	1738	1738	1740	1745	1751	1742	1735	1730
22.5	1711	1706	1703	1703	1705	1710	1717	1706	1698	1693
25.0	1676	1669	1664	1662	1663	1668	1677	1664	1655	1650
27.5	1637	1625	1617	1612	1612	1617	1627	1612	1602	1597
30.0	1568	1574	1560	1551	1548	1553	1565	1546	1535	1532
32.5	1478	1508	1488	1472	1466	1469	1483	1461	1449	1448
35.0	1372	1397	1398	1376	1366	1368	1385	1359	1347	1348
37.5	1253	1272	1294	1265	1250	1252	1270	1241	1229	1234
40.0	1128	1141	1159	1139	1119	1118	1138	1107	1096	1104
42.5	1003	1010	1015	1002	974.6	965.9	979.8	955.9	953.4	968.1
45.0	884.0	884.1	877.1	862.5	823.2	802.9	807.2	795.1	806.3	833.6
47.5	777.1	770.7	750.0	721.2	676.0	647.8	644.7	642.2	663.8	700.3
50.0	682.5	670.0	633.3	593.0	550.9	522.9	516.5	518.0	540.6	577.4
52.5	594.9	580.0	532.4	488.1	451.6	425.4	418.9	421.2	443.1	475.0
55.0	515.6	495.6	450.1	407.1	371.4	345.2	335.6	341.6	363.8	396.1
57.5	444.3	421.5	387.7	342.9	305.6	279.3	268.2	276.5	299.4	334.6
60.0	384.4	364.7	336.2	295.2	255.3	228.1	214.6	226.2	251.0	288.9
62.5	337.4	321.0	295.8	261.6	219.9	192.5	180.0	191.9	217.8	257.2
65.0	300.2	288.9	266.3	239.1	198.4	172.5	161.8	172.8	198.1	237.0
67.5	265.4	263.4	244.4	219.9	186.4	161.2	151.7	162.1	186.6	218.4
70.0	231.9	230.9	227.0	202.8	179.9	156.6	146.3	156.9	179.2	200.3
72.5	199.4	199.6	202.9	188.1	175.0	153.4	142.9	153.5	173.3	184.1
75.0	170.2	170.1	174.5	173.1	162.1	147.3	138.5	148.3	161.2	168.1
77.5	145.0	144.7	148.4	147.6	142.5	133.1	127.4	134.5	142.6	144.1

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2023-08-14

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-PD195US 4.000K



## Photometric Data Table [cd]

80.0	121.4	122.0	122.9	121.4	119.2	111.5	112.2	115.0	120.5	118.7
82.5	94.89	99.49	97.21	94.27	89.49	84.41	88.38	90.23	89.80	90.36
85.0	0	30.30	64.57	64.47	60.11	54.69	56.44	60.58	57.82	58.33
87.5	0	0	0	0	25.31	21.19	14.36	19.49	22.24	0
90.0	0	0	0	0	0	0	0.6329	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	1876	1876	1876	1876	1876	1876	1876	1876	1876	1876
2.5	1870	1869	1868	1867	1866	1865	1865	1864	1864	1863
5.0	1860	1858	1856	1855	1854	1852	1851	1851	1850	1849
7.5	1847	1845	1843	1841	1839	1838	1837	1836	1835	1835
10.0	1830	1828	1826	1824	1822	1822	1821	1820	1820	1820
12.5	1810	1807	1805	1804	1803	1803	1803	1803	1804	1804
15.0	1786	1784	1782	1782	1782	1783	1784	1785	1786	1788
17.5	1758	1756	1756	1757	1758	1760	1763	1766	1765	1758
20.0	1727	1725	1726	1728	1732	1736	1731	1721	1714	1709
22.5	1690	1690	1693	1697	1703	1687	1674	1665	1660	1657
25.0	1648	1650	1655	1662	1639	1622	1611	1605	1602	1602
27.5	1598	1603	1611	1588	1566	1551	1543	1540	1541	1545
30.0	1535	1546	1535	1503	1482	1471	1467	1470	1476	1485
32.5	1457	1473	1434	1406	1388	1381	1385	1394	1407	1422
35.0	1362	1353	1320	1295	1283	1282	1294	1312	1299	1286
37.5	1254	1225	1197	1176	1168	1174	1185	1172	1158	1148
40.0	1116	1094	1071	1053	1047	1049	1039	1027	1016	1010
42.5	974.7	965.3	949.7	932.4	922.2	909.6	897.8	885.1	874.1	869.7
45.0	843.7	847.3	838.5	820.3	799.0	779.7	762.9	746.5	733.3	729.3
47.5	724.6	741.7	741.8	719.6	690.4	661.6	635.9	613.1	594.8	589.1
50.0	613.5	646.6	656.0	633.0	596.0	555.5	518.0	485.4	483.6	508.8
52.5	515.3	559.0	573.2	556.3	515.0	461.8	409.5	408.6	418.5	438.9
55.0	435.8	476.1	495.7	487.1	444.8	384.5	361.5	352.8	356.3	371.4
57.5	374.7	404.4	424.8	423.6	385.5	351.3	319.5	301.2	297.0	306.1
60.0	326.8	348.9	365.2	366.1	353.7	320.4	281.9	253.3	240.6	243.0
62.5	287.1	306.1	318.0	326.1	321.2	290.6	247.4	209.1	186.6	184.0
65.0	258.2	274.7	281.6	289.3	288.3	261.0	214.9	172.1	162.3	173.7
67.5	236.5	249.6	248.0	255.0	255.6	231.2	195.1	165.3	155.0	164.1
70.0	219.3	218.1	215.2	222.6	224.4	209.6	182.8	157.6	147.6	155.3
72.5	196.4	188.3	183.5	191.9	196.1	186.5	167.8	148.3	140.3	146.9
75.0	169.5	161.0	156.0	164.4	167.9	161.7	150.4	137.9	132.6	139.0
77.5	144.7	138.2	134.2	139.0	140.3	135.5	131.1	126.1	110.2	100.8
80.0	119.4	116.8	113.8	115.5	113.5	93.21	73.11	53.96	38.07	27.07
82.5	92.25	94.18	90.13	60.80	34.86	12.68	0	0	0	0
85.0	58.67	28.38	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	1876	1876	1876	1876	1876	1876	1876	1876	1876	1876
2.5	1863	1862	1862	1862	1862	1862	1862	1862	1863	1863
5.0	1849	1848	1848	1848	1848	1848	1848	1848	1849	1849
7.5	1834	1834	1834	1834	1834	1834	1834	1834	1834	1835
10.0	1819	1819	1819	1819	1819	1819	1819	1819	1819	1819
12.5	1804	1805	1805	1805	1805	1805	1805	1804	1803	1803
15.0	1789	1790	1790	1791	1791	1790	1790	1789	1788	1786
17.5	1754	1750	1748	1746	1746	1746	1748	1749	1753	1757
20.0	1706	1704	1702	1701	1701	1702	1702	1703	1705	1708
22.5	1656	1656	1656	1656	1656	1657	1657	1656	1656	1657
25.0	1604	1607	1609	1611	1612	1612	1611	1609	1606	1604
27.5	1551	1558	1562	1565	1567	1567	1564	1560	1554	1548
30.0	1496	1507	1515	1520	1522	1522	1518	1510	1501	1490
32.5	1411	1406	1404	1404	1405	1407	1408	1412	1418	1428
35.0	1279	1278	1282	1285	1288	1289	1287	1286	1288	1294
37.5	1146	1149	1158	1166	1171	1171	1166	1160	1156	1157
40.0	1010	1019	1034	1046	1054	1053	1043	1031	1022	1018
42.5	874.2	887.5	907.8	926.7	937.1	934.1	919.7	901.5	886.3	879.3
45.0	736.9	754.9	781.2	806.7	820.1	815.3	795.7	770.7	750.1	739.5
47.5	617.3	657.0	696.4	728.2	742.4	735.7	710.2	673.1	630.9	599.2
50.0	543.7	583.0	621.4	651.9	664.8	658.1	633.9	598.4	557.3	518.6
52.5	471.3	510.0	547.3	575.8	587.2	580.6	558.5	525.1	485.3	449.1
55.0	400.3	437.6	473.8	500.0	509.5	503.2	483.7	452.7	414.8	381.7
57.5	330.6	366.1	400.9	424.3	431.9	426.1	409.6	381.3	345.8	316.5
60.0	262.3	295.3	328.6	348.9	354.2	349.1	336.2	310.9	278.0	253.6
62.5	215.1	256.6	294.1	314.4	318.7	313.0	299.1	269.9	229.7	194.7
65.0	200.0	235.3	266.8	281.8	283.2	278.8	269.1	244.8	211.1	181.8
67.5	186.4	215.2	240.1	249.5	247.7	244.7	239.4	221.0	194.0	170.0
70.0	173.8	196.1	214.1	217.3	212.1	210.7	210.3	198.1	178.2	159.3

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2023-08-14

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-PD195US 4.000K

## Photometric Data Table [cd]

72.5	162.1	178.0	188.6	185.3	176.6	176.9	181.6	176.1	163.6	149.3
75.0	151.1	160.6	163.5	153.5	141.1	143.1	153.3	154.9	149.7	140.0
77.5	96.35	91.91	86.70	77.89	70.53	72.55	81.14	88.20	94.88	101.0
80.0	18.41	10.83	4.877	1.146	0	1.067	4.566	10.40	18.15	27.14
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	1876	1876	1876	1876	1876	1876	1876	1876	1876	1876
2.5	1863	1864	1865	1865	1866	1867	1868	1869	1870	1871
5.0	1850	1851	1851	1852	1853	1855	1856	1858	1860	1862
7.5	1835	1835	1836	1837	1838	1840	1842	1844	1846	1849
10.0	1819	1819	1820	1820	1821	1822	1824	1826	1829	1832
12.5	1802	1802	1801	1801	1801	1802	1803	1805	1807	1811
15.0	1785	1783	1781	1780	1779	1779	1779	1780	1783	1786
17.5	1762	1763	1760	1757	1754	1753	1752	1753	1754	1758
20.0	1712	1719	1728	1731	1727	1724	1722	1721	1722	1726
22.5	1659	1663	1671	1683	1697	1692	1687	1685	1686	1689
25.0	1603	1604	1610	1619	1634	1656	1649	1644	1643	1645
27.5	1543	1540	1542	1549	1562	1583	1603	1595	1591	1591
30.0	1479	1472	1468	1470	1479	1498	1526	1535	1525	1523
32.5	1412	1398	1387	1382	1386	1400	1425	1458	1445	1438
35.0	1305	1317	1297	1285	1282	1291	1311	1340	1350	1341
37.5	1165	1177	1191	1178	1169	1173	1188	1215	1243	1226
40.0	1023	1033	1044	1055	1049	1049	1063	1082	1102	1092
42.5	881.0	889.5	901.1	912.7	923.4	927.5	937.8	947.4	956.2	952.1
45.0	739.7	749.7	764.4	779.6	794.3	809.9	817.6	823.9	823.4	817.9
47.5	600.2	614.1	634.2	655.7	677.5	698.9	714.2	717.4	707.2	689.6
50.0	487.7	483.8	512.4	542.1	574.7	604.0	627.4	626.4	602.4	571.9
52.5	422.3	406.1	399.2	440.3	486.3	525.8	548.7	544.9	508.5	474.3
55.0	360.1	349.7	348.2	355.8	412.6	457.9	475.9	466.5	432.3	399.4
57.5	300.8	297.1	302.4	322.2	353.3	396.9	409.4	397.3	373.8	340.7
60.0	244.3	247.9	262.6	293.2	325.8	341.9	352.8	343.3	328.2	296.1
62.5	190.4	202.1	227.4	266.5	297.6	307.7	308.1	301.9	289.3	264.5
65.0	165.1	163.6	195.9	240.6	269.0	275.8	274.1	270.3	259.7	241.5
67.5	156.7	157.0	178.7	214.5	240.4	245.3	243.6	245.6	234.5	218.5
70.0	148.6	150.1	169.9	196.8	212.9	216.4	214.9	217.1	213.5	198.1
72.5	141.0	142.6	158.7	177.7	188.6	189.3	187.7	189.4	191.0	180.3
75.0	133.5	134.3	145.0	156.7	164.0	164.3	162.5	163.9	165.9	164.2
77.5	111.4	125.2	129.5	134.3	139.6	140.2	139.7	140.2	143.0	142.1
80.0	38.47	53.54	73.02	94.35	115.7	117.1	117.4	116.7	119.4	117.3
82.5	0	0	0	12.85	35.57	61.73	91.80	93.25	91.95	88.21
85.0	0	0	0	0	0	0	0	28.05	57.61	55.68
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	1876	1876								
2.5	1872	1873								
5.0	1864	1866								
7.5	1852	1855								
10.0	1835	1840								
12.5	1815	1820								
15.0	1791	1797								
17.5	1763	1770								
20.0	1731	1739								
22.5	1695	1704								
25.0	1651	1662								
27.5	1597	1609								
30.0	1528	1542								
32.5	1443	1457								
35.0	1343	1360								
37.5	1225	1241								
40.0	1087	1101								
42.5	941.5	949.0								
45.0	797.3	792.1								
47.5	659.2	640.4								
50.0	539.7	519.4								
52.5	447.1	426.1								
55.0	372.7	349.6								
57.5	310.5	286.1								
60.0	262.1	236.0								
62.5	226.9	200.1								

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2023-08-14

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-PD195US 4.000K

## Photometric Data Table [cd]

65.0	202.9	177.9
67.5	188.7	166.6
70.0	180.0	162.9
72.5	173.3	159.8
75.0	159.7	149.7
77.5	139.5	135.3
80.0	116.6	116.4
82.5	85.83	91.84
85.0	54.08	57.03
87.5	19.51	17.29
90.0	0	0

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: DAMIN  
Test Date: 2023-08-14

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-PD195US 4.000K