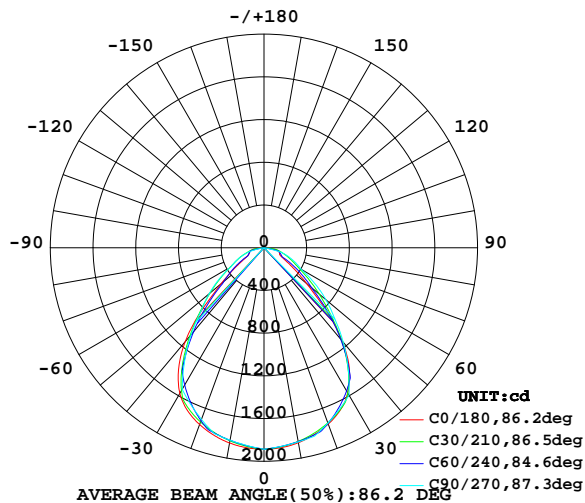


## LUMINAIRE PHOTOMETRIC TEST REPORT

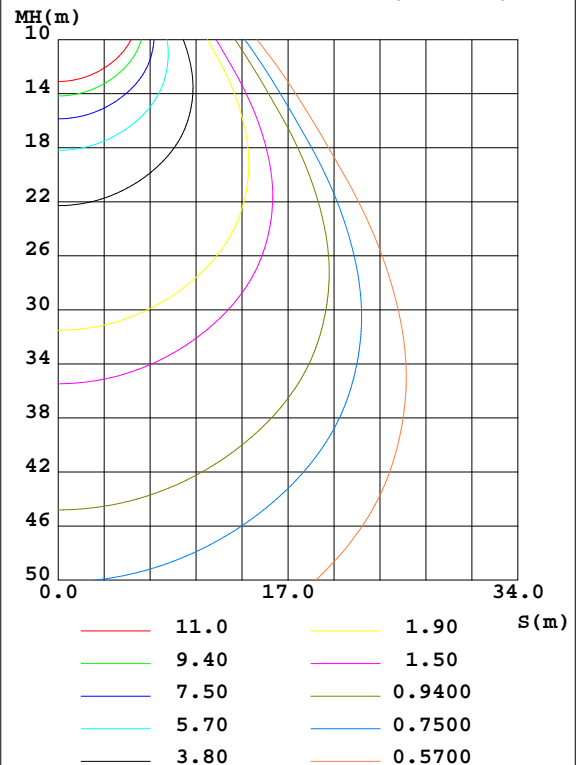
Test:U:229.9V I:0.1331A P:29.88W PF:0.9765 Lamp Flux:3750.24x1 lm		
NAME: IL-PD195US 3.500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:288*1188	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 125.53 lm/W			
MODEL	IL-PD195US 3.500K	Imax(cd)	1887	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)	3750.2	$\eta$ UP,DN(C0-180)	0.0,51.2
NOMINAL FLUX(lm)	3750.24	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)



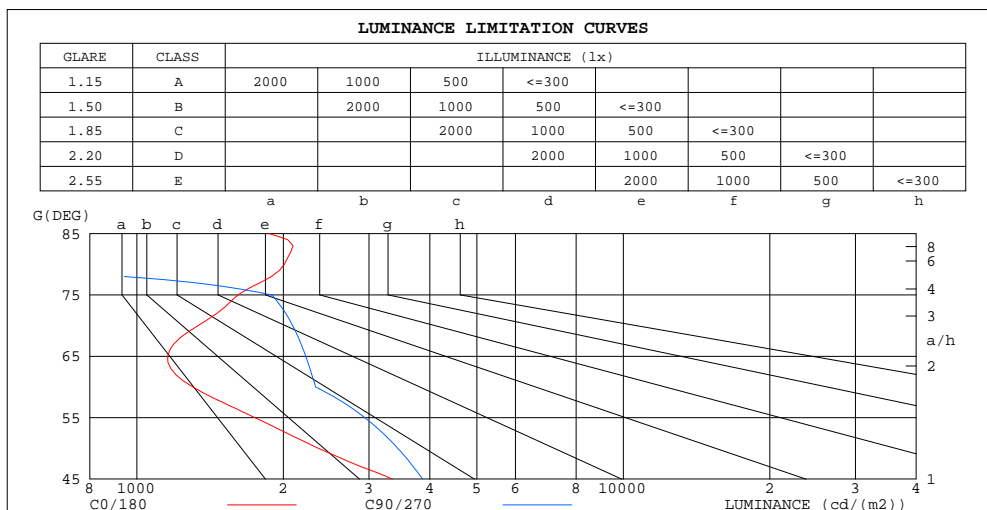
C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2023-08-14

$\gamma$  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 3.500K

ZONAL FLUX DIAGRAM  
AND LUMINANCE LIMITATION CURVES

## ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	$\%lum, lamp$
5	1879	1868	1867	1869	1879	1863	1858	1862	0- 5	44.82	44.82	1.19,1.19
10	1853	1841	1846	1843	1856	1832	1830	1830	5- 10	132.6	177.4	4.73,4.73
15	1813	1806	1826	1810	1817	1793	1801	1789	10- 15	216.1	393.5	10.5,10.5
20	1757	1763	1748	1769	1762	1746	1711	1740	15- 20	292.4	685.8	18.3,18.3
25	1683	1662	1670	1669	1688	1633	1621	1627	20- 25	356.2	1042	27.8,27.8
30	1569	1531	1593	1536	1576	1481	1531	1477	25- 30	404.4	1446	38.6,38.6
35	1394	1366	1374	1371	1395	1293	1296	1291	30- 35	426.8	1873	49.9,49.9
40	1138	1151	1154	1153	1148	1059	1062	1060	35- 40	409.2	2282	60.9,60.9
45	810.8	869.6	935.3	865.0	815.9	787.5	827.2	783.6	40- 45	356.7	2639	70.4,70.4
50	519.6	628.4	756.3	615.2	522.4	560.9	670.5	545.3	45- 50	287.2	2926	78.78
55	343.0	442.6	577.4	416.9	338.6	387.9	513.9	358.7	50- 55	224.4	3151	84.84
60	222.8	359.0	398.5	331.3	216.5	322.6	357.2	295.8	55- 60	171.8	3323	88.6,88.6
65	167.3	284.1	321.5	261.7	162.8	262.2	285.7	242.6	60- 65	131.9	3454	92.1,92.1
70	156.3	226.0	244.6	213.0	147.0	210.3	214.2	198.2	65- 70	110.7	3565	95.1,95.1
75	142.9	179.1	167.7	173.1	139.1	162.4	142.7	157.7	70- 75	93.97	3659	97.6,97.6
80	119.5	108.9	0	105.2	112.7	93.73	0	94.89	75- 80	65.77	3725	99.3,99.3
85	55.61	0	0	0	56.44	0	0	0	80- 85	22.79	3748	99.9,99.9
90	0.5278	0	0	0	0.6329	0	0	0	85- 90	2.577	3750	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		



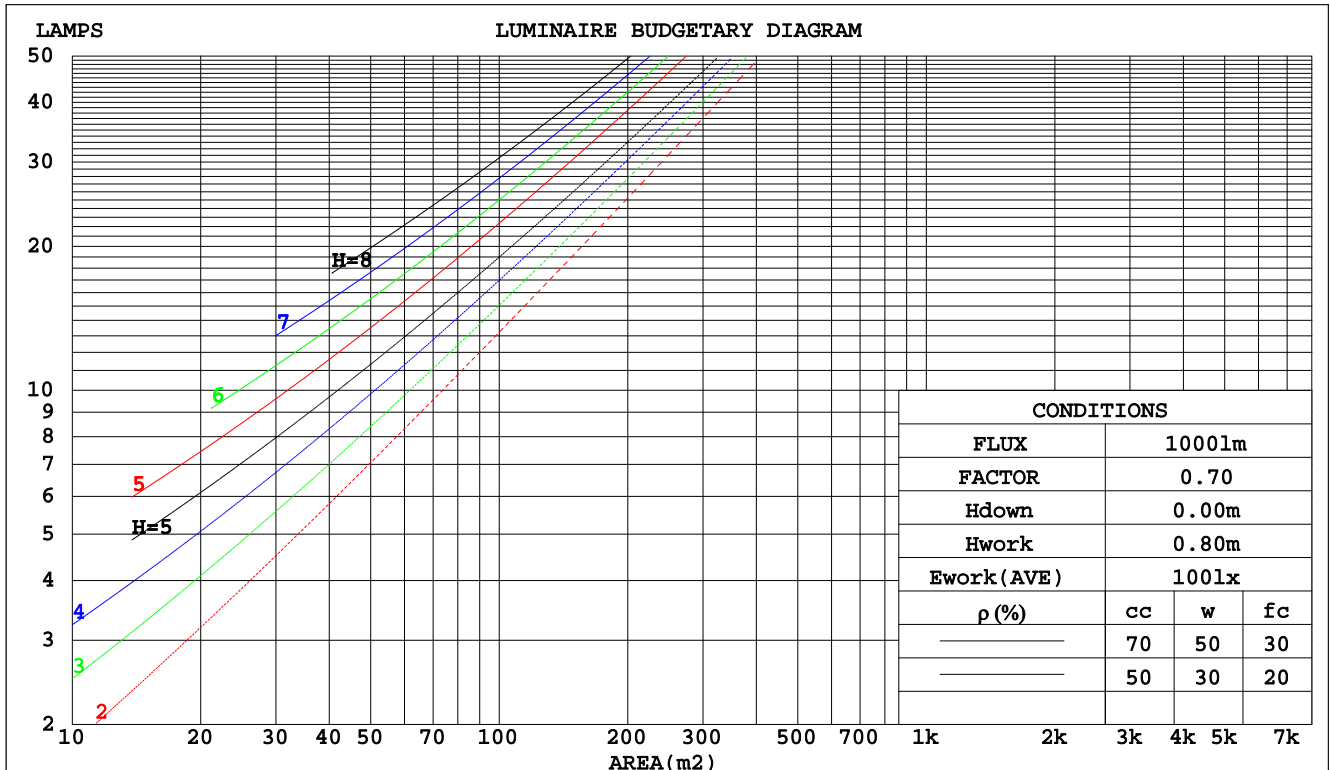
C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: DAMIN  
Test Date: 2023-08-14

$\gamma$  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 3.500K

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:229.9V I:0.1331A P:29.88W PF:0.9765 Lamp Flux:3750.24x1 lm		
NAME: IL-PD195US 3.500K	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	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	.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 3.500K

## WEC AND CCEC

Test:U:229.9V I:0.1331A P:29.88W PF:0.9765 Lamp Flux:3750.24x1 lm					
NAME: IL-PD195US 3.500K			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 3.500K

UGR(Unified Glare Rating) Table

Test:U:229.9V I:0.1331A P:29.88W PF:0.9765 Lamp Flux:3750.24x1 lm										
NAME: IL-PD195US 3.500K					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	18.3	18.6
8H	17.0	18.0	17.3	18.3	18.6	16.9	18.0	17.3	18.3	18.6
12H	17.2	18.2	17.5	18.5	18.8	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	18.3
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	18.7	19.4	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	17.9	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	20.0	20.4	17.9	18.4	18.4	18.9	19.3
12H	19.4	19.8	19.8	20.3	20.8	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	19.4
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 3750 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 3.500K

## UTILIZATION FACTORS TABLE

Test:U:229.9V I:0.1331A P:29.88W PF:0.9765 Lamp Flux:3750.24x1 lm		
NAME: IL-PD195US 3.500K	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 3.500K

## ISOCANDELA DIAGRAM

Test:U:229.9V I:0.1331A P:29.88W PF:0.9765 Lamp Flux:3750.24x1 lm		
NAME: IL-PD195US 3.500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:288*1188	PROTECTION ANGLE:

Conical surface Flux(90deg):

2639.1 lm

%lum = 70.4%

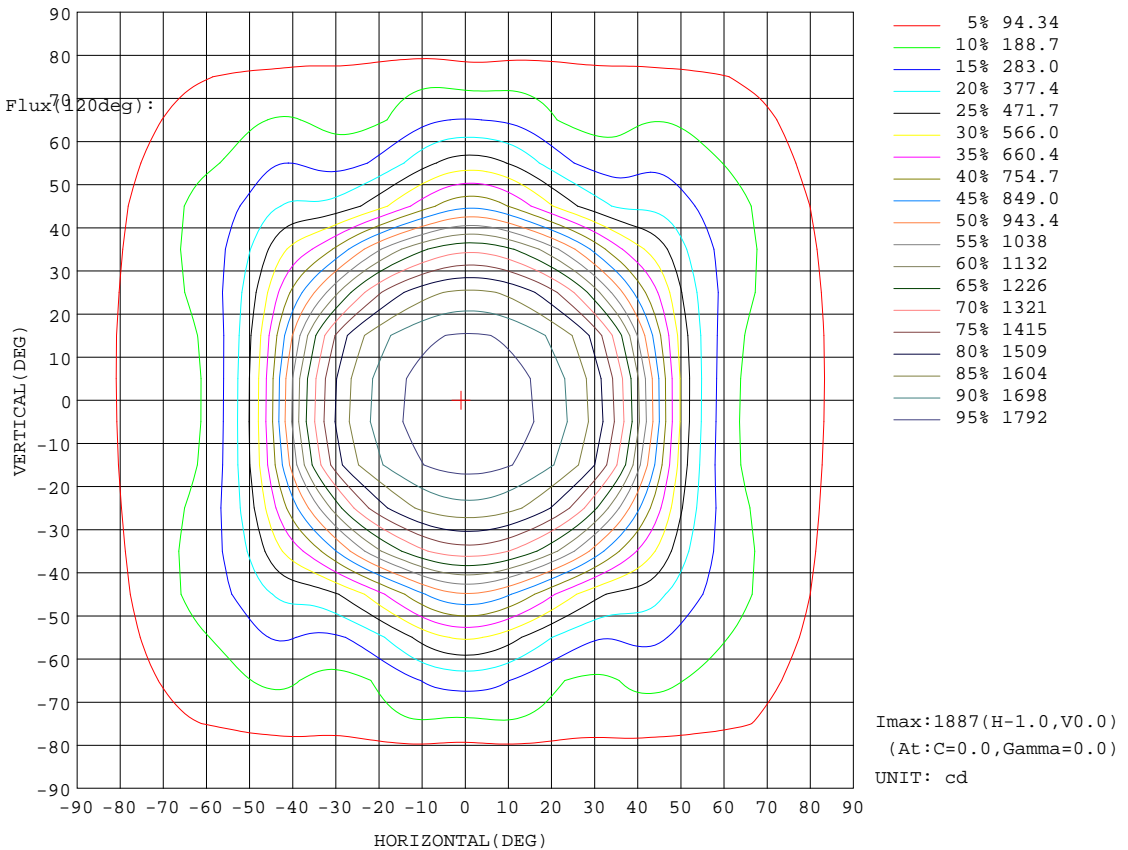
%lamp = 70.4%

Conical surface Flux(70deg):

3322.5 lm

%lum = 88.6%

%lamp = 88.6%



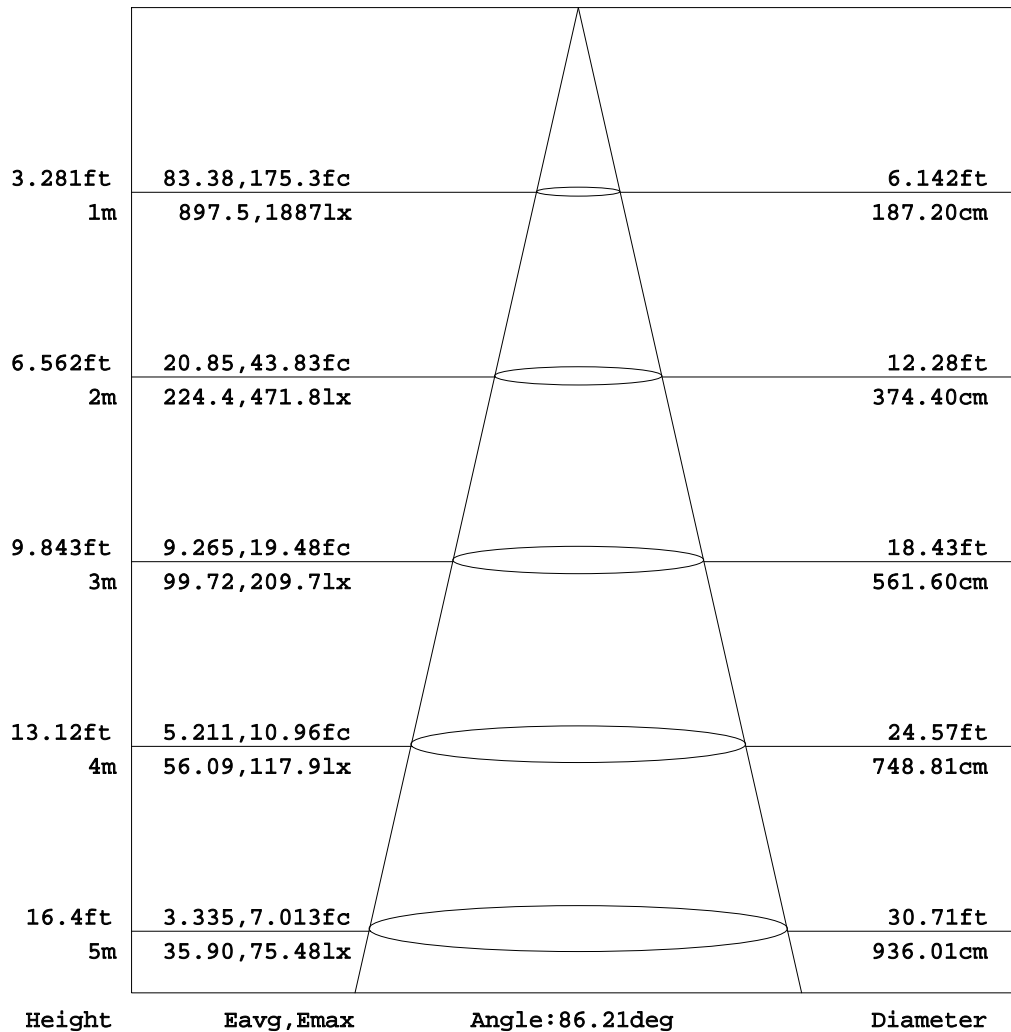
C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2023-08-14

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 3.500K

### AAI Figure

Test:U:229.9V I:0.1331A P:29.88W PF:0.9765 Lamp Flux:3750.24x1 lm		
NAME: IL-PD195US 3.500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:288*1188	PROTECTION ANGLE:

Flux out:2539 lm



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

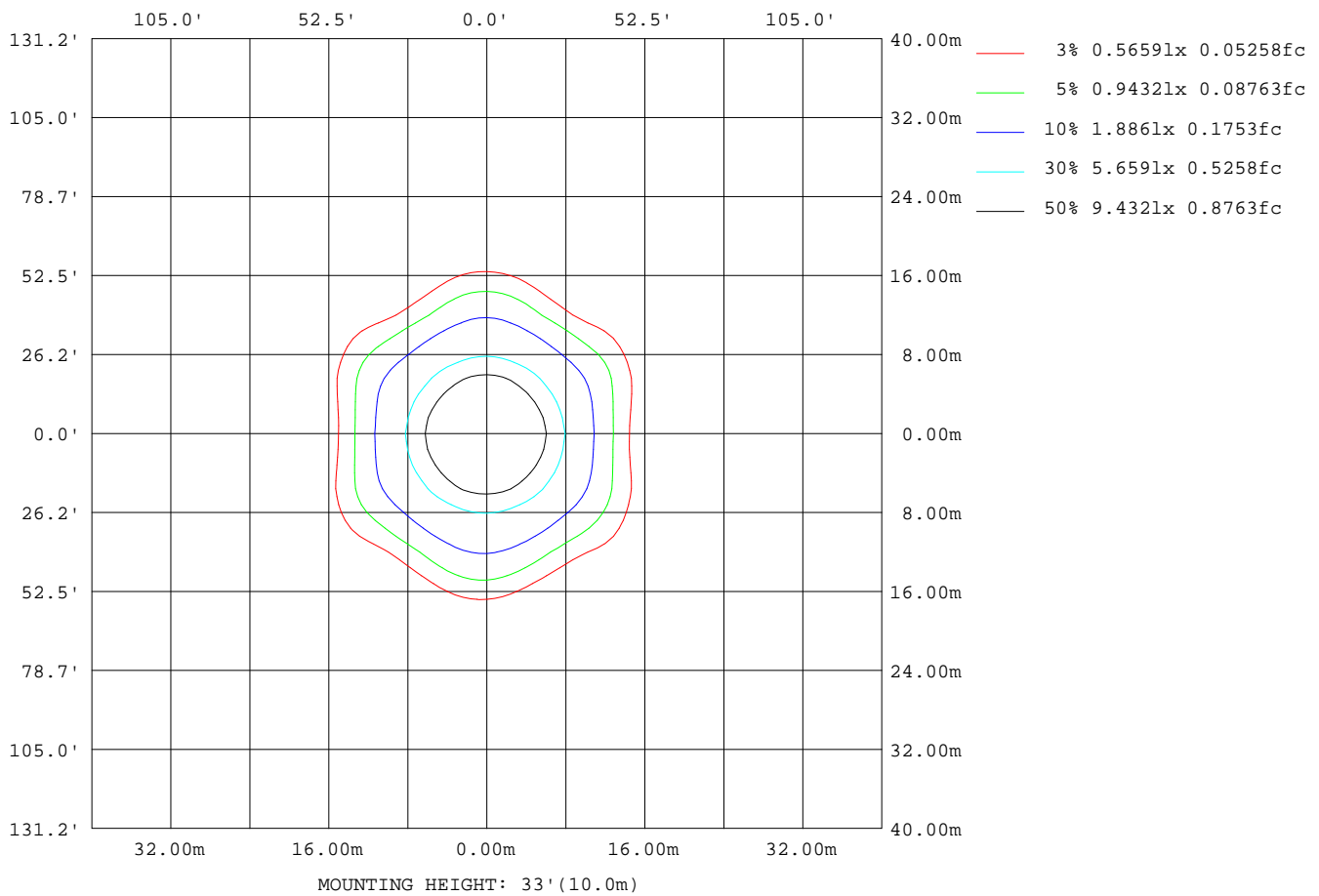
C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2023-08-14

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 3.500K



## ISOLUX DIAGRAM

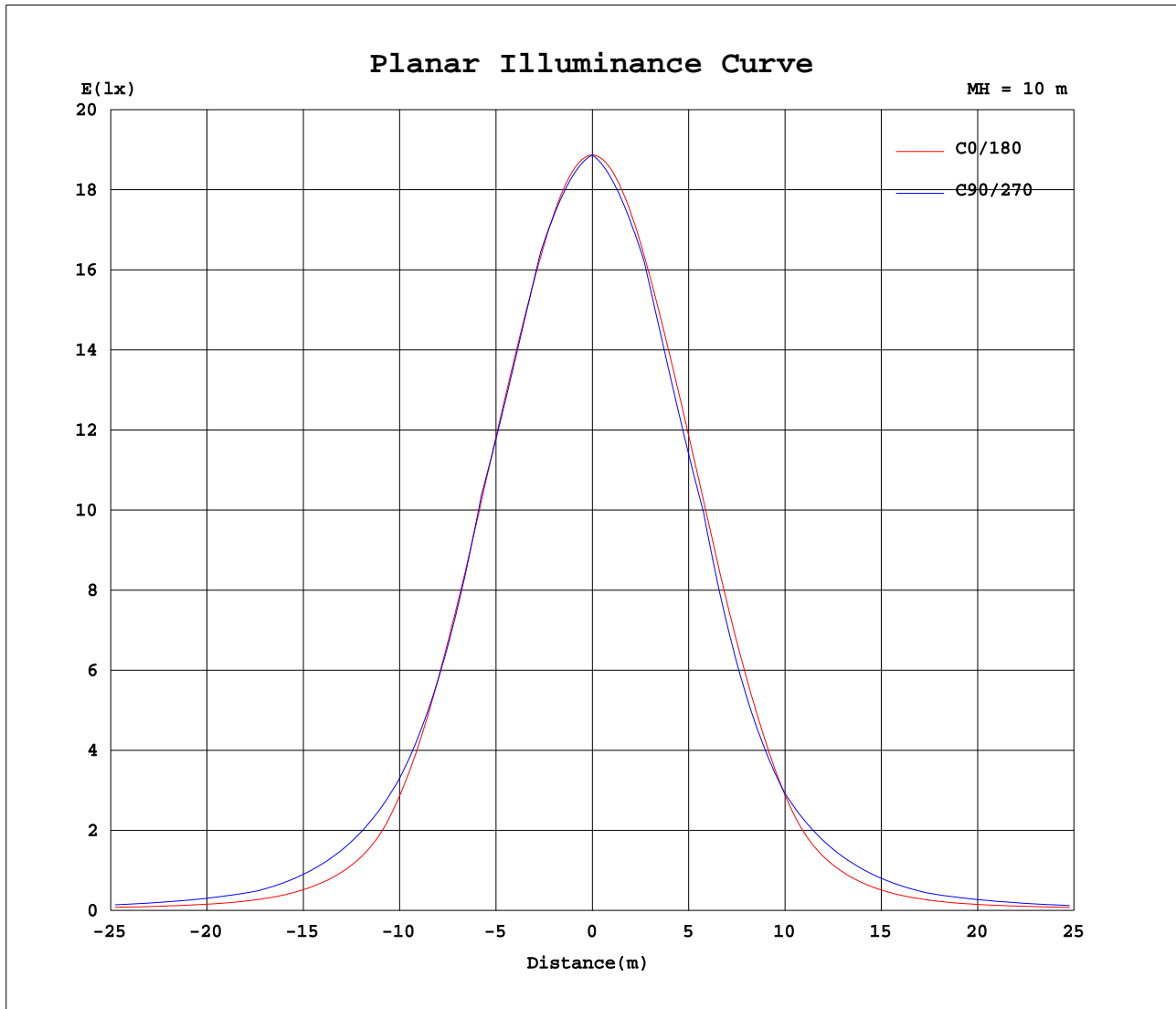
Test:U:229.9V I:0.1331A P:29.88W PF:0.9765 Lamp Flux:3750.24x1 lm		
NAME: IL-PD195US 3.500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:288*1188	PROTECTION ANGLE:



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 3.500K

## 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 3.500K









Photometric Data Table [cd]

G/C	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0
0.0	1887	1887	1887	1887	1887	1887	1887	1887	1887	1887
2.5	1884	1884	1883	1882	1881	1881	1880	1879	1879	1878
5.0	1879	1877	1875	1874	1872	1871	1870	1869	1869	1868
7.5	1868	1866	1863	1862	1860	1859	1857	1857	1856	1856
10.0	1853	1850	1847	1845	1843	1842	1841	1841	1841	1841
12.5	1835	1831	1828	1825	1823	1822	1822	1822	1823	1825
15.0	1813	1807	1804	1801	1800	1799	1800	1801	1803	1806
17.5	1786	1781	1776	1774	1773	1773	1774	1777	1781	1785
20.0	1757	1750	1745	1743	1742	1744	1746	1750	1756	1763
22.5	1723	1715	1710	1708	1708	1710	1715	1722	1729	1718
25.0	1683	1673	1668	1666	1667	1672	1680	1689	1673	1662
27.5	1633	1622	1616	1615	1619	1627	1638	1624	1609	1600
30.0	1569	1555	1549	1551	1559	1573	1568	1547	1535	1531
32.5	1488	1472	1467	1471	1485	1504	1476	1459	1452	1453
35.0	1394	1375	1369	1376	1395	1393	1371	1358	1357	1366
37.5	1279	1256	1251	1263	1291	1271	1253	1247	1251	1269
40.0	1138	1115	1112	1129	1151	1139	1130	1128	1138	1151
42.5	979.3	959.5	962.6	985.8	1001	1003	1003	1007	1015	1006
45.0	810.8	799.2	812.3	843.9	860.7	873.3	880.7	886.6	881.3	869.6
47.5	645.9	642.8	665.4	704.3	734.0	757.9	771.2	770.7	761.2	743.0
50.0	519.6	519.1	539.7	576.8	617.6	656.6	674.7	671.8	655.4	628.4
52.5	423.3	423.7	442.8	473.9	515.9	564.5	587.7	586.0	565.3	527.1
55.0	343.0	345.6	366.2	396.6	435.9	479.5	506.6	511.6	488.2	442.6
57.5	275.9	280.6	300.3	335.7	375.5	407.9	434.2	443.6	423.4	399.1
60.0	222.8	230.2	251.4	288.8	328.2	353.5	374.6	382.4	382.8	359.0
62.5	187.8	195.0	216.6	254.5	288.4	312.2	328.8	339.2	343.3	320.8
65.0	167.3	174.1	194.0	229.3	257.6	281.2	292.3	299.7	304.5	284.1
67.5	158.2	164.6	182.6	208.5	232.8	256.0	258.6	264.1	268.0	248.6
70.0	156.3	163.7	178.2	193.7	213.8	224.8	227.4	231.3	234.6	226.0
72.5	153.0	161.4	175.0	181.1	194.1	196.8	198.2	202.1	207.4	203.2
75.0	142.9	148.9	161.2	167.4	172.1	173.3	172.6	177.1	181.2	179.1
77.5	136.3	136.8	142.2	146.7	151.2	152.1	150.8	153.5	156.0	154.1
80.0	119.5	116.7	121.0	123.4	128.2	130.1	129.7	131.0	131.7	108.9
82.5	92.99	88.77	91.31	95.06	101.3	107.8	104.6	70.06	40.56	14.84
85.0	55.61	54.38	61.94	62.75	66.42	33.06	0	0	0	0
87.5	11.94	21.49	25.66	0	0	0	0	0	0	0
90.0	0.5278	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	1887	1887	1887	1887	1887	1887	1887	1887	1887	1887
2.5	1878	1878	1877	1877	1877	1877	1877	1877	1877	1877
5.0	1868	1867	1867	1867	1867	1866	1867	1866	1867	1866
7.5	1856	1855	1856	1856	1856	1856	1856	1856	1856	1856
10.0	1842	1842	1843	1844	1845	1845	1846	1846	1846	1846
12.5	1826	1828	1830	1831	1833	1834	1835	1836	1836	1836
15.0	1809	1812	1815	1818	1821	1823	1824	1825	1826	1826
17.5	1790	1795	1796	1793	1790	1788	1788	1787	1787	1787
20.0	1761	1755	1752	1750	1748	1748	1748	1748	1748	1748
22.5	1711	1707	1705	1705	1706	1707	1708	1709	1709	1709
25.0	1656	1655	1655	1658	1662	1665	1668	1670	1670	1670
27.5	1597	1598	1603	1609	1616	1622	1627	1630	1632	1631
30.0	1532	1538	1547	1558	1569	1579	1587	1591	1593	1592
32.5	1461	1474	1488	1505	1494	1488	1484	1483	1483	1485
35.0	1383	1404	1390	1377	1371	1369	1370	1372	1374	1375
37.5	1286	1269	1256	1247	1246	1249	1255	1261	1264	1264
40.0	1140	1128	1118	1115	1119	1128	1140	1149	1154	1154
42.5	996.6	986.3	979.9	981.1	990.3	1006	1023	1038	1045	1043
45.0	857.1	846.1	840.5	845.5	860.2	882.0	906.2	925.8	935.3	932.0
47.5	724.0	708.7	701.5	708.6	740.0	776.6	809.7	834.3	845.8	841.5
50.0	598.8	575.7	582.9	612.7	647.7	683.9	717.9	743.9	756.3	752.1
52.5	482.9	486.6	501.5	525.6	556.9	592.1	626.6	653.5	666.9	662.7
55.0	422.7	417.3	424.2	441.3	467.8	500.9	535.5	563.0	577.4	573.3
57.5	369.6	352.8	350.8	360.0	380.6	410.6	444.7	472.7	487.9	484.0
60.0	322.2	293.0	281.1	281.6	295.0	321.1	354.2	382.4	398.5	394.8
62.5	278.9	237.7	214.6	208.6	236.9	275.6	316.1	345.6	360.0	355.1
65.0	238.8	191.5	183.9	195.4	220.0	253.5	287.9	311.2	321.5	317.5
67.5	215.6	183.6	174.2	182.8	204.3	232.6	260.5	277.2	283.1	280.2
70.0	202.8	175.1	164.6	171.1	189.3	212.6	233.6	243.4	244.6	243.0
72.5	187.2	165.3	155.4	159.8	175.1	193.5	207.4	209.9	206.1	206.0
75.0	169.2	154.4	146.1	149.0	161.5	175.1	181.6	176.6	167.7	169.1
77.5	149.6	142.2	121.1	107.2	102.4	100.2	96.36	89.62	83.83	85.74
80.0	84.08	60.96	41.91	28.82	19.56	11.81	5.417	1.318	0	1.261
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 3.500K

Photometric Data Table [cd]

87.5	0	0	0	0	0	0	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0
G/C	100.0	105.0	110.0	115.0	120.0	125.0	130.0	135.0	140.0	145.0
0.0	1887	1887	1887	1887	1887	1887	1887	1887	1887	1887
2.5	1877	1877	1877	1877	1877	1878	1878	1879	1879	1880
5.0	1866	1866	1867	1867	1867	1868	1868	1869	1869	1870
7.5	1856	1856	1856	1856	1856	1856	1856	1857	1858	1858
10.0	1846	1846	1845	1845	1844	1844	1844	1843	1843	1843
12.5	1836	1835	1834	1833	1832	1830	1829	1828	1827	1826
15.0	1825	1824	1822	1820	1818	1815	1813	1810	1808	1806
17.5	1788	1790	1792	1796	1800	1799	1795	1791	1786	1783
20.0	1749	1750	1751	1753	1756	1761	1767	1769	1762	1757
22.5	1709	1709	1709	1709	1710	1713	1717	1725	1736	1728
25.0	1670	1668	1666	1663	1661	1661	1662	1669	1680	1696
27.5	1629	1626	1621	1615	1609	1604	1603	1606	1615	1631
30.0	1589	1583	1575	1565	1553	1543	1538	1536	1542	1555
32.5	1488	1493	1501	1511	1493	1478	1466	1458	1458	1467
35.0	1375	1376	1378	1383	1394	1408	1387	1371	1363	1366
37.5	1262	1257	1252	1251	1258	1272	1289	1273	1256	1253
40.0	1147	1136	1124	1116	1120	1129	1142	1153	1140	1131
42.5	1032	1014	994.4	980.9	979.9	985.8	995.7	1005	1013	1008
45.0	916.4	889.7	862.3	844.3	839.0	842.9	853.4	865.0	876.8	888.3
47.5	821.3	785.4	741.0	706.5	698.0	703.1	717.3	734.3	752.9	771.5
50.0	731.3	695.1	651.3	612.7	578.0	567.3	588.8	615.2	643.7	670.5
52.5	641.8	606.0	563.5	527.4	496.8	477.2	468.8	507.7	549.3	584.0
55.0	552.5	517.8	477.7	444.4	419.6	407.3	406.0	416.9	468.9	509.2
57.5	463.7	430.5	393.5	363.9	346.2	341.8	349.8	371.5	402.8	442.8
60.0	375.4	344.3	310.6	286.0	276.2	280.5	298.8	331.3	367.3	384.8
62.5	334.2	297.5	252.9	213.3	209.2	223.1	252.6	295.2	333.3	345.0
65.0	302.1	272.0	233.5	199.2	178.2	174.8	210.3	261.7	300.2	308.4
67.5	270.7	247.8	215.6	186.1	168.1	166.5	188.0	230.0	268.1	273.7
70.0	239.9	224.6	199.0	174.2	158.4	158.3	179.0	213.0	237.7	240.9
72.5	209.8	202.3	183.4	163.0	149.1	149.6	168.1	194.5	210.5	209.5
75.0	180.1	180.8	168.7	152.3	139.9	140.4	155.1	173.1	182.3	179.8
77.5	95.48	103.3	107.0	109.7	115.8	130.5	140.3	149.3	154.1	151.6
80.0	5.373	12.17	20.43	29.41	39.91	55.92	79.73	105.2	126.2	125.0
82.5	0	0	0	0	0	0	0	14.31	38.73	65.26
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	1887	1887	1887	1887	1887	1887	1887	1887	1887	1887
2.5	1880	1881	1881	1882	1883	1884	1885	1883	1882	1881
5.0	1871	1872	1873	1874	1876	1877	1879	1877	1874	1872
7.5	1859	1860	1861	1863	1865	1867	1870	1866	1863	1860
10.0	1844	1845	1846	1848	1850	1853	1856	1851	1847	1844
12.5	1826	1826	1827	1829	1832	1835	1839	1833	1828	1824
15.0	1805	1804	1805	1806	1809	1812	1817	1810	1804	1800
17.5	1780	1778	1778	1779	1782	1786	1791	1783	1777	1772
20.0	1752	1749	1748	1748	1751	1755	1762	1752	1745	1740
22.5	1721	1716	1714	1713	1715	1720	1728	1717	1709	1704
25.0	1687	1679	1674	1672	1674	1679	1688	1675	1665	1660
27.5	1647	1636	1628	1623	1623	1628	1638	1623	1613	1608
30.0	1578	1584	1571	1562	1559	1564	1576	1557	1546	1542
32.5	1488	1519	1498	1483	1477	1480	1494	1472	1461	1460
35.0	1382	1407	1409	1386	1376	1379	1395	1370	1358	1359
37.5	1262	1282	1305	1276	1260	1262	1280	1251	1239	1244
40.0	1136	1150	1169	1149	1129	1128	1148	1117	1106	1115
42.5	1010	1018	1024	1011	983.7	975.7	990.4	966.0	963.2	977.9
45.0	890.7	891.4	884.5	870.8	831.6	811.4	815.9	803.6	814.7	842.3
47.5	782.9	776.9	756.7	728.7	683.5	655.1	652.1	649.5	671.2	707.7
50.0	687.6	675.3	639.4	599.0	556.7	528.5	522.4	523.8	546.5	583.5
52.5	599.2	584.9	537.3	492.8	456.4	429.7	422.9	425.5	447.5	480.1
55.0	519.5	499.9	454.2	410.6	374.9	348.4	338.6	344.9	367.5	400.5
57.5	447.3	424.8	390.2	345.9	308.5	281.9	270.7	279.1	302.1	337.6
60.0	386.9	366.9	338.7	297.6	257.6	230.1	216.5	228.2	253.1	291.1
62.5	339.3	323.0	297.8	263.6	221.7	194.1	181.4	193.3	219.4	258.9
65.0	301.7	290.5	268.0	240.7	199.7	173.6	162.8	173.8	199.3	238.2
67.5	266.9	264.9	245.9	221.0	187.5	162.1	152.4	162.9	187.5	219.5
70.0	233.0	232.0	228.2	203.8	180.8	157.3	147.0	157.6	179.9	201.4
72.5	200.3	200.6	204.0	189.1	175.9	154.1	143.5	154.2	174.2	185.1
75.0	170.9	170.9	175.4	174.0	162.8	148.0	139.1	149.0	162.0	169.1
77.5	145.6	145.4	149.1	148.3	143.1	133.7	128.0	135.1	143.4	145.0

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 3.500K



Photometric Data Table [cd]

80.0	121.9	122.6	123.5	121.9	119.7	111.9	112.7	115.5	121.2	119.3
82.5	95.32	99.94	97.70	94.65	89.81	84.58	88.64	90.61	90.17	90.75
85.0	0	30.44	64.86	64.73	60.35	54.79	56.44	61.03	58.01	58.65
87.5	0	0	0	0	25.43	21.29	14.41	19.61	22.42	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	1887	1887	1887	1887	1887	1887	1887	1887	1887	1887
2.5	1880	1879	1878	1877	1876	1876	1875	1874	1874	1873
5.0	1870	1869	1867	1866	1864	1863	1862	1861	1860	1860
7.5	1857	1855	1853	1851	1850	1848	1847	1846	1846	1845
10.0	1841	1838	1836	1834	1833	1832	1831	1831	1830	1830
12.5	1821	1818	1816	1815	1814	1813	1813	1813	1814	1814
15.0	1797	1794	1793	1792	1792	1793	1794	1795	1797	1798
17.5	1769	1767	1766	1767	1769	1771	1773	1776	1775	1768
20.0	1737	1736	1737	1739	1742	1746	1742	1731	1724	1719
22.5	1701	1701	1703	1708	1713	1697	1684	1675	1670	1667
25.0	1659	1661	1666	1672	1650	1633	1621	1615	1612	1612
27.5	1609	1614	1622	1599	1576	1561	1553	1550	1551	1555
30.0	1547	1557	1545	1514	1493	1481	1478	1480	1486	1495
32.5	1468	1484	1445	1416	1398	1392	1395	1404	1416	1432
35.0	1374	1365	1330	1306	1293	1293	1304	1322	1309	1296
37.5	1265	1236	1207	1186	1178	1184	1195	1181	1168	1158
40.0	1127	1103	1081	1063	1056	1059	1049	1036	1025	1019
42.5	983.9	974.4	958.0	941.1	930.7	918.5	906.7	893.5	882.8	878.6
45.0	852.2	854.9	845.8	827.4	806.6	787.5	770.7	754.3	741.2	737.9
47.5	731.6	748.4	748.0	725.6	696.7	668.1	642.7	620.1	601.9	597.1
50.0	619.3	652.1	661.2	638.1	601.1	560.9	523.7	491.3	489.7	515.6
52.5	520.2	563.4	577.7	560.7	519.3	466.2	414.2	413.6	423.8	444.8
55.0	439.8	480.4	499.8	490.8	448.3	387.9	365.3	357.0	360.8	376.3
57.5	379.4	407.8	428.4	426.8	388.3	354.0	322.5	304.5	300.8	310.0
60.0	329.2	352.1	368.2	368.9	356.2	322.6	284.1	255.9	243.4	246.0
62.5	289.0	308.7	320.4	328.5	323.2	292.2	248.9	210.8	188.6	186.2
65.0	259.8	276.4	283.5	291.4	290.0	262.2	215.8	173.1	163.8	175.6
67.5	237.8	251.1	249.5	256.6	257.0	232.0	195.8	166.3	156.2	165.7
70.0	220.5	219.3	216.5	223.9	225.5	210.3	183.5	158.3	148.6	156.6
72.5	197.5	189.4	184.6	193.0	197.0	187.3	168.5	149.0	141.0	147.9
75.0	170.5	161.8	156.9	165.2	168.7	162.4	151.2	138.5	133.1	139.7
77.5	145.5	138.9	134.9	139.5	140.9	136.3	131.8	126.7	110.5	101.2
80.0	120.1	117.4	114.2	115.8	113.9	93.73	73.56	54.19	38.18	27.17
82.5	92.75	94.57	90.33	60.91	34.98	12.75	0	0	0	0
85.0	58.98	28.49	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	1887	1887	1887	1887	1887	1887	1887	1887	1887	1887
2.5	1873	1873	1873	1873	1873	1873	1873	1873	1873	1874
5.0	1859	1859	1858	1858	1858	1858	1858	1858	1859	1859
7.5	1845	1844	1844	1844	1844	1844	1844	1844	1844	1844
10.0	1830	1830	1830	1830	1830	1829	1829	1829	1829	1829
12.5	1815	1815	1815	1815	1815	1815	1814	1814	1813	1812
15.0	1799	1800	1801	1801	1801	1800	1799	1798	1797	1796
17.5	1764	1760	1758	1757	1756	1756	1757	1759	1762	1766
20.0	1715	1713	1712	1711	1711	1711	1711	1712	1714	1717
22.5	1666	1665	1666	1666	1666	1666	1666	1665	1665	1665
25.0	1614	1617	1619	1621	1621	1621	1619	1617	1614	1612
27.5	1561	1567	1572	1575	1576	1575	1573	1568	1562	1556
30.0	1505	1516	1524	1529	1531	1530	1526	1518	1508	1497
32.5	1421	1415	1413	1413	1414	1415	1416	1420	1425	1435
35.0	1289	1287	1291	1294	1296	1297	1295	1293	1294	1300
37.5	1155	1158	1167	1175	1179	1178	1173	1166	1162	1163
40.0	1019	1028	1042	1055	1062	1060	1050	1037	1028	1024
42.5	882.9	896.1	916.1	934.8	944.5	940.8	925.9	907.3	891.9	884.9
45.0	745.5	763.5	789.3	814.6	827.2	821.8	801.5	776.2	755.3	744.5
47.5	625.4	665.0	703.8	735.4	748.9	741.5	715.4	678.1	635.8	603.8
50.0	550.8	590.1	627.9	658.3	670.5	663.2	638.5	602.8	561.6	522.9
52.5	477.5	516.0	552.9	581.4	592.2	585.1	562.4	528.7	488.9	452.6
55.0	405.5	442.7	478.5	504.7	513.9	507.1	487.0	455.6	417.7	384.6
57.5	334.8	370.2	404.8	428.1	435.5	429.3	412.2	383.5	348.0	319.0
60.0	265.5	298.4	331.6	351.8	357.2	351.7	338.2	312.4	279.6	255.5
62.5	217.6	259.2	296.7	317.1	321.4	315.5	301.0	271.1	230.9	196.1
65.0	202.3	237.7	269.2	284.2	285.7	281.1	270.8	246.1	212.2	183.1
67.5	188.3	217.3	242.3	251.6	249.9	246.8	241.1	222.2	195.1	171.2
70.0	175.4	198.0	216.0	219.2	214.2	212.7	211.9	199.3	179.2	160.3

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 3.500K

## Photometric Data Table [cd]

72.5	163.3	179.5	190.2	187.0	178.4	178.8	183.2	177.3	164.4	150.2
75.0	152.1	161.8	165.0	154.8	142.7	144.9	154.8	156.0	150.5	140.6
77.5	96.90	92.62	87.48	78.58	71.34	73.46	81.92	88.83	95.32	101.4
80.0	18.51	10.91	4.921	1.156	0	1.080	4.610	10.47	18.23	27.24
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	1887	1887	1887	1887	1887	1887	1887	1887	1887	1887
2.5	1874	1874	1875	1875	1876	1877	1878	1879	1880	1881
5.0	1860	1860	1861	1862	1863	1865	1866	1868	1870	1872
7.5	1845	1845	1846	1847	1848	1850	1851	1853	1856	1858
10.0	1829	1829	1829	1830	1830	1832	1833	1835	1838	1841
12.5	1812	1811	1811	1810	1810	1811	1812	1814	1817	1820
15.0	1794	1792	1790	1789	1788	1788	1788	1789	1791	1795
17.5	1771	1772	1768	1766	1763	1761	1760	1761	1763	1766
20.0	1721	1727	1737	1740	1735	1732	1730	1729	1730	1734
22.5	1667	1672	1679	1691	1705	1700	1695	1693	1694	1697
25.0	1611	1612	1617	1627	1642	1663	1656	1652	1650	1652
27.5	1551	1548	1550	1556	1569	1590	1611	1603	1598	1598
30.0	1486	1479	1475	1477	1486	1505	1533	1542	1532	1529
32.5	1419	1404	1393	1389	1393	1407	1431	1464	1451	1444
35.0	1312	1324	1304	1291	1288	1297	1316	1346	1355	1346
37.5	1171	1183	1196	1184	1174	1178	1193	1219	1247	1230
40.0	1029	1038	1049	1060	1054	1054	1067	1086	1106	1096
42.5	886.2	894.5	906.2	917.3	928.1	931.7	942.3	950.2	959.2	954.7
45.0	744.6	754.3	768.6	783.6	798.4	814.4	819.7	826.8	825.8	819.5
47.5	604.6	618.3	638.1	659.3	681.1	701.9	717.3	720.0	709.2	691.0
50.0	491.6	487.6	515.8	545.3	578.7	607.1	630.3	628.9	603.9	572.7
52.5	425.8	409.3	402.0	443.3	489.2	528.8	551.3	546.8	509.8	475.2
55.0	363.1	352.6	350.6	358.7	415.7	460.6	478.0	468.3	433.5	400.2
57.5	303.3	299.5	304.8	325.0	356.2	399.4	411.3	398.7	375.0	341.4
60.0	246.5	250.1	264.9	295.8	328.3	344.1	354.4	344.7	329.3	297.0
62.5	192.2	204.0	229.5	268.9	299.8	309.5	309.4	303.1	290.5	265.4
65.0	166.7	165.3	197.9	242.6	270.8	277.2	275.3	271.4	260.7	242.5
67.5	158.0	158.4	180.4	216.1	241.9	246.6	244.7	246.7	235.4	219.3
70.0	149.7	151.3	171.4	198.2	214.2	217.5	215.9	218.1	214.2	198.9
72.5	141.8	143.5	160.0	178.9	189.7	190.3	188.7	190.4	191.8	181.1
75.0	134.1	135.0	146.1	157.7	164.9	165.1	163.5	164.8	166.7	165.0
77.5	111.7	125.7	130.3	135.1	140.4	140.9	140.4	141.1	144.0	142.8
80.0	38.58	53.77	73.47	94.89	116.2	117.6	117.9	117.5	120.2	118.1
82.5	0	0	0	12.93	35.75	61.95	92.08	93.74	92.55	88.86
85.0	0	0	0	0	0	0	0	28.18	57.96	56.13
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	1887	1887								
2.5	1882	1883								
5.0	1874	1876								
7.5	1861	1865								
10.0	1844	1849								
12.5	1824	1829								
15.0	1799	1805								
17.5	1771	1778								
20.0	1739	1747								
22.5	1703	1711								
25.0	1658	1669								
27.5	1604	1616								
30.0	1534	1548								
32.5	1448	1463								
35.0	1348	1364								
37.5	1229	1245								
40.0	1090	1104								
42.5	943.5	950.6								
45.0	799.0	793.7								
47.5	660.2	641.2								
50.0	540.5	520.2								
52.5	447.6	426.5								
55.0	373.1	350.0								
57.5	311.0	286.5								
60.0	262.6	236.6								
62.5	227.6	200.8								

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 3.500K

## Photometric Data Table [cd]

65.0	203.7	178.6
67.5	189.5	167.6
70.0	180.9	163.9
72.5	174.3	160.7
75.0	160.6	150.6
77.5	140.2	136.2
80.0	117.3	117.2
82.5	86.52	92.72
85.0	54.64	57.41
87.5	19.81	17.61
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 3.500K