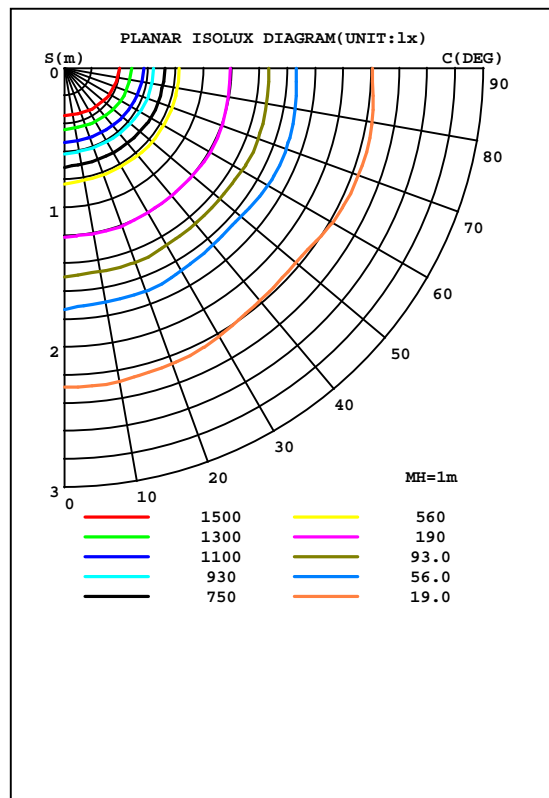
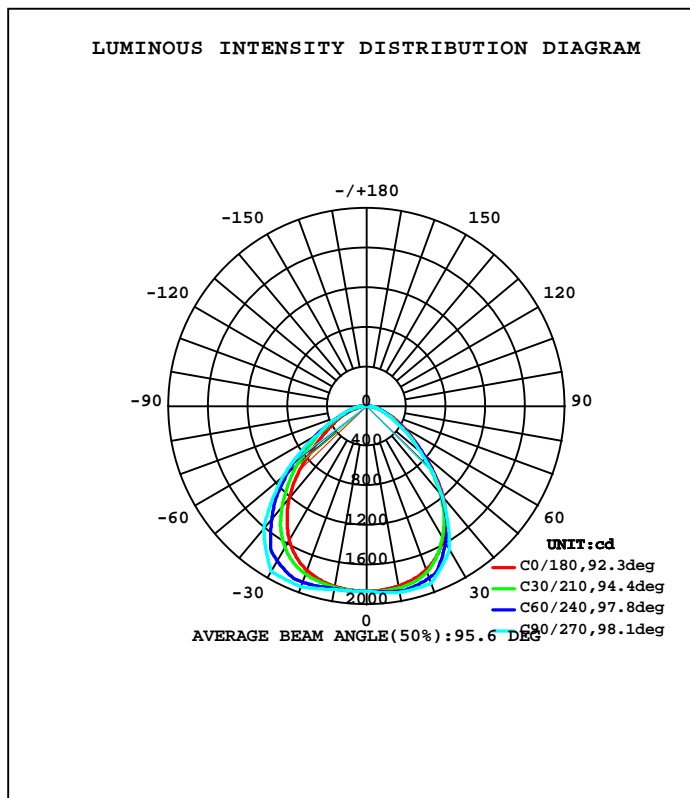


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:240.8V I:0.1677A P:38.73W PF:0.9588 Lamp Flux:4414.34x1 lm		
NAME: PLU30120-聚飞4000K-双面进光-负极涂黑0.09	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: AXG	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 113.98 lm/W			
MODEL		I _{max} (cd)	1937	S/MH(C0/180)	1.23
NOMINAL POWER(W)	40	LOR(%)	100.0	S/MH(C90/270)	1.26
RATED VOLTAGE(V)	240	TOTAL FLUX(lm)	4414.3	h UP, DN(C0-180)	0.0, 46.2
NOMINAL FLUX(lm)	4414.34	CIE CLASS	DIRECT	h UP, DN(C180-360)	0.0, 53.8
LAMPS INSIDE	1	h up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	240.8	h down(%)	100.0	CIBSE SHR MAX	1.35



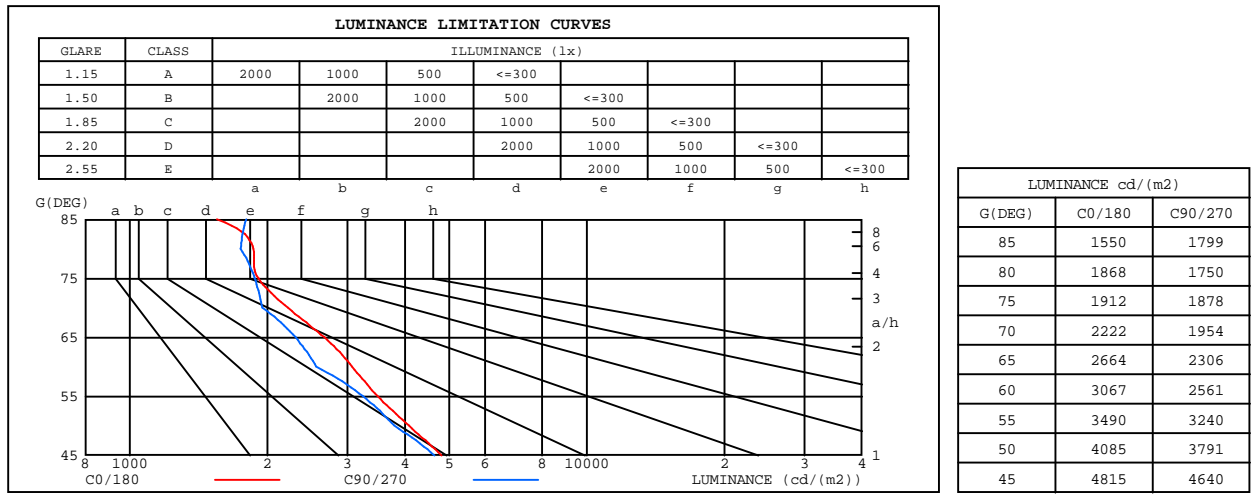
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: 03
 Test Date: 2018-02-05

deg Range: 0 - 90DEG
 Interval: 0.5DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.281
 Humidity: 60.0%
 Test Distance: 11.540m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM
AND LUMINANCE LIMITATION CURVES

ZONAL FLUX DIAGRAM:

g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
5	1861	1878	1888	1879	1862	1868	1871	1867	0- 5	44.73	44.73	1.01,1.01
10	1843	1880	1910	1884	1846	1864	1876	1861	5- 10	133.9	178.7	4.05,4.05
15	1810	1863	1906	1871	1816	1856	1907	1852	10- 15	221.4	400.1	9.06,9.06
20	1756	1804	1903	1816	1763	1844	1937	1839	15- 20	304.6	704.7	16,16
25	1673	1715	1790	1729	1682	1810	1932	1804	20- 25	378.0	1083	24.5,24.5
30	1551	1564	1676	1579	1563	1724	1926	1713	25- 30	433.6	1516	34.3,34.3
35	1394	1376	1431	1393	1405	1588	1773	1569	30- 35	464.9	1981	44.9,44.9
40	1209	1181	1186	1200	1219	1421	1619	1396	35- 40	465.3	2446	55.4,55.4
45	978.8	946.7	943.2	959.8	999.2	1209	1357	1185	40- 45	438.6	2885	65.4,65.4
50	754.8	722.6	700.5	726.0	764.3	1004	1095	977.8	45- 50	385.9	3271	74.1,74.1
55	575.6	526.8	534.4	528.9	571.3	774.3	826.7	737.9	50- 55	320.7	3592	81.4,81.4
60	440.9	361.7	368.2	360.7	430.5	569.2	558.3	523.6	55- 60	253.8	3846	87.1,87.1
65	323.7	262.0	280.1	255.0	328.3	377.9	417.0	347.8	60- 65	192.0	4038	91.5,91.5
70	218.5	190.0	192.1	181.6	232.9	234.4	275.6	220.6	65- 70	142.5	4180	94.7,94.7
75	142.3	137.7	139.8	135.2	146.3	144.8	209.4	141.3	70- 75	102.4	4282	97.97
80	93.27	81.56	87.39	81.17	87.25	107.8	143.2	105.8	75- 80	71.55	4354	98.6,98.6
85	38.84	35.11	45.07	35.25	38.22	67.97	81.76	65.16	80- 85	43.52	4398	99.6,99.6
90	2.251	2.760	2.751	2.618	2.372	18.47	20.35	11.24	85- 90	16.83	4414	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		



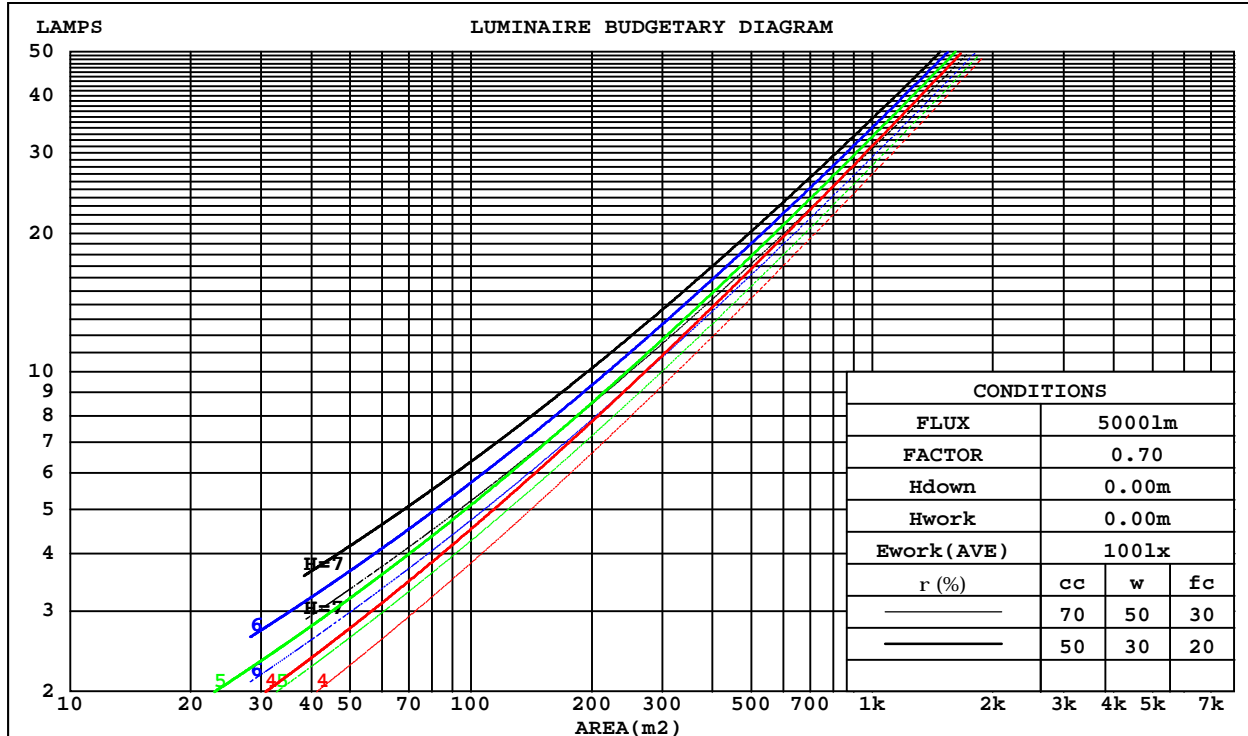
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:03
 Test Date:2018-02-05

g Range: 0 - 90DEG
 g Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.281
 Humidity:60.0%
 Test Distance:11.540m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:240.8V I:0.1677A P:38.73W PF:0.9588 Lamp Flux:4414.34x1 lm		
NAME: PLU30120-聚飞4000K-双面进光-负极涂黑0.09	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: AXG	SUR.:	PROTECTION ANGLE:

r _{cc}	80%			70%			50%			30%			10%			0
r _w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
r _{fc}	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	1.06	1.02	.99	1.04	1.00	.97	.99	.97	.94	.96	.93	.91	.92	.90	.89	.87
2.0	.94	.88	.83	.92	.87	.82	.89	.84	.80	.85	.82	.78	.83	.79	.76	.74
3.0	.84	.76	.71	.82	.75	.70	.79	.74	.69	.77	.72	.68	.74	.70	.66	.64
4.0	.75	.67	.61	.74	.66	.61	.71	.65	.60	.69	.64	.59	.67	.62	.58	.56
5.0	.68	.60	.53	.67	.59	.53	.65	.58	.53	.63	.57	.52	.61	.56	.52	.50
6.0	.62	.53	.47	.61	.53	.47	.59	.52	.47	.57	.51	.46	.56	.50	.46	.44
7.0	.56	.48	.42	.55	.48	.42	.54	.47	.42	.52	.46	.41	.51	.45	.41	.39
8.0	.51	.43	.38	.51	.43	.38	.50	.43	.38	.48	.42	.37	.47	.41	.37	.35
9.0	.47	.40	.34	.47	.39	.34	.46	.39	.34	.45	.38	.34	.44	.38	.34	.32
10.0	.44	.36	.31	.43	.36	.31	.42	.36	.31	.41	.35	.31	.41	.35	.31	.29



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:03
 Test Date:2018-02-05

g Range: 0 - 90DEG
 g Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.281
 Humidity:60.0%
 Test Distance:11.540m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:240.8V I:0.1677A P:38.73W PF:0.9588 Lamp Flux:4414.34x1 lm		
NAME: PLU30120-聚飞4000K-双面进光-负极涂黑0.09	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: AXG	SUR.:	PROTECTION ANGLE:

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
rfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.271	.154	.049	.264	.151	.048	.251	.144	.046	.239	.138	.044	.228	.132	.043	
2.0	.258	.141	.043	.252	.139	.043	.240	.134	.041	.230	.129	.040	.220	.124	.039	
3.0	.241	.128	.038	.236	.126	.038	.226	.123	.037	.217	.119	.036	.208	.115	.036	
4.0	.226	.117	.034	.221	.116	.034	.212	.112	.034	.204	.109	.033	.196	.107	.032	
5.0	.211	.107	.031	.207	.106	.031	.199	.104	.030	.191	.101	.030	.185	.099	.030	
6.0	.197	.099	.028	.194	.098	.028	.187	.096	.028	.180	.094	.028	.174	.092	.027	
7.0	.185	.092	.026	.182	.091	.026	.176	.089	.026	.170	.087	.025	.164	.085	.025	
8.0	.174	.085	.024	.171	.084	.024	.166	.083	.024	.160	.081	.023	.155	.080	.023	
9.0	.164	.079	.022	.162	.079	.022	.157	.077	.022	.152	.076	.022	.147	.075	.022	
10.0	.155	.074	.021	.153	.074	.021	.148	.073	.020	.144	.071	.020	.140	.070	.020	

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
rfc	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	.178	.156	.137	.152	.134	.118	.104	.092	.082	.060	.053	.048	.019	.017	.015	
2.0	.168	.132	.102	.144	.114	.088	.098	.079	.062	.057	.046	.036	.018	.015	.012	
3.0	.159	.114	.078	.136	.098	.068	.094	.068	.048	.054	.040	.028	.017	.013	.009	
4.0	.151	.100	.062	.130	.087	.054	.089	.060	.038	.052	.035	.022	.017	.012	.007	
5.0	.144	.090	.050	.123	.078	.044	.085	.054	.031	.049	.032	.018	.016	.010	.006	
6.0	.137	.081	.041	.118	.070	.036	.081	.049	.026	.047	.029	.015	.015	.009	.005	
7.0	.130	.074	.035	.112	.064	.031	.077	.045	.022	.045	.027	.013	.015	.009	.004	
8.0	.124	.068	.030	.107	.059	.026	.074	.042	.019	.043	.025	.011	.014	.008	.004	
9.0	.119	.064	.026	.102	.055	.023	.071	.039	.016	.041	.023	.010	.013	.008	.003	
10.0	.113	.059	.023	.098	.051	.020	.068	.036	.014	.039	.021	.009	.013	.007	.003	

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:03
 Test Date:2018-02-05

g Range: 0 - 90DEG
 Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.281
 Humidity:60.0%
 Test Distance:11.540m [K=1.0000]
 Remarks:

Uncorrected UGR Table

Test:U:240.8V I:0.1677A P:38.73W PF:0.9588 Lamp Flux:4414.34x1 lm										
NAME: PLU30120-聚飞4000K-双面进光-负极涂黑0.09					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:1		
MFR.: AXG					SUR.:			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	16.2	17.6	16.4	17.8	18.0	16.1	17.5	16.4	17.7	17.9
3H	17.1	18.3	17.4	18.6	18.8	16.9	18.1	17.1	18.4	18.6
4H	17.4	18.6	17.7	18.9	19.1	17.2	18.4	17.5	18.6	18.9
6H	17.7	18.8	18.0	19.1	19.4	17.4	18.5	17.7	18.8	19.1
8H	17.8	18.9	18.1	19.1	19.4	17.5	18.6	17.8	18.8	19.1
12H	17.8	18.9	18.1	19.1	19.4	17.5	18.6	17.9	18.9	19.2
4H 2H	16.4	17.6	16.7	17.9	18.1	16.3	17.5	16.6	17.8	18.0
3H	17.5	18.5	17.8	18.8	19.1	17.3	18.3	17.6	18.6	18.9
4H	18.0	18.9	18.3	19.2	19.6	17.7	18.7	18.1	19.0	19.3
6H	18.4	19.2	18.8	19.6	19.9	18.1	18.9	18.5	19.3	19.7
8H	18.5	19.3	18.9	19.7	20.0	18.2	19.0	18.6	19.4	19.8
12H	18.6	19.3	19.0	19.7	20.1	18.3	19.1	18.8	19.4	19.9
8H 4H	18.1	18.9	18.5	19.2	19.6	17.9	18.7	18.3	19.0	19.4
6H	18.6	19.3	19.1	19.7	20.1	18.4	19.0	18.8	19.5	19.9
8H	18.8	19.4	19.3	19.8	20.3	18.6	19.2	19.1	19.6	20.1
12H	19.0	19.5	19.5	19.9	20.4	18.8	19.3	19.3	19.8	20.2
12H 4H	18.1	18.8	18.5	19.2	19.6	17.9	18.6	18.3	19.0	19.4
6H	18.7	19.2	19.1	19.7	20.1	18.4	19.0	18.9	19.4	19.9
8H	18.9	19.4	19.4	19.8	20.3	18.7	19.2	19.2	19.6	20.1
Variations with the observer position at spacings:										
S = 1.0H	+ 0.4 / - 0.5					+ 0.4 / - 0.5				
1.5H	+ 0.2 / - 0.2					+ 0.2 / - 0.4				
2.0H	+ 0.8 / - 0.6					+ 0.9 / - 0.8				

CIE Pub.117 Corrected 4414 lm Total Lamp Luminous Flux.(8log(F/F0) = 5.2)

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:03
 Test Date:2018-02-05

g Range: 0 - 90DEG
 Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.281
 Humidity:60.0%
 Test Distance:11.540m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:240.8V I:0.1677A P:38.73W PF:0.9588 Lamp Flux:4414.34x1 lm		
NAME: PLU30120-聚飞4000K-双面进光-负极涂黑0.09	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: AXG	SUR.:	PROTECTION ANGLE:

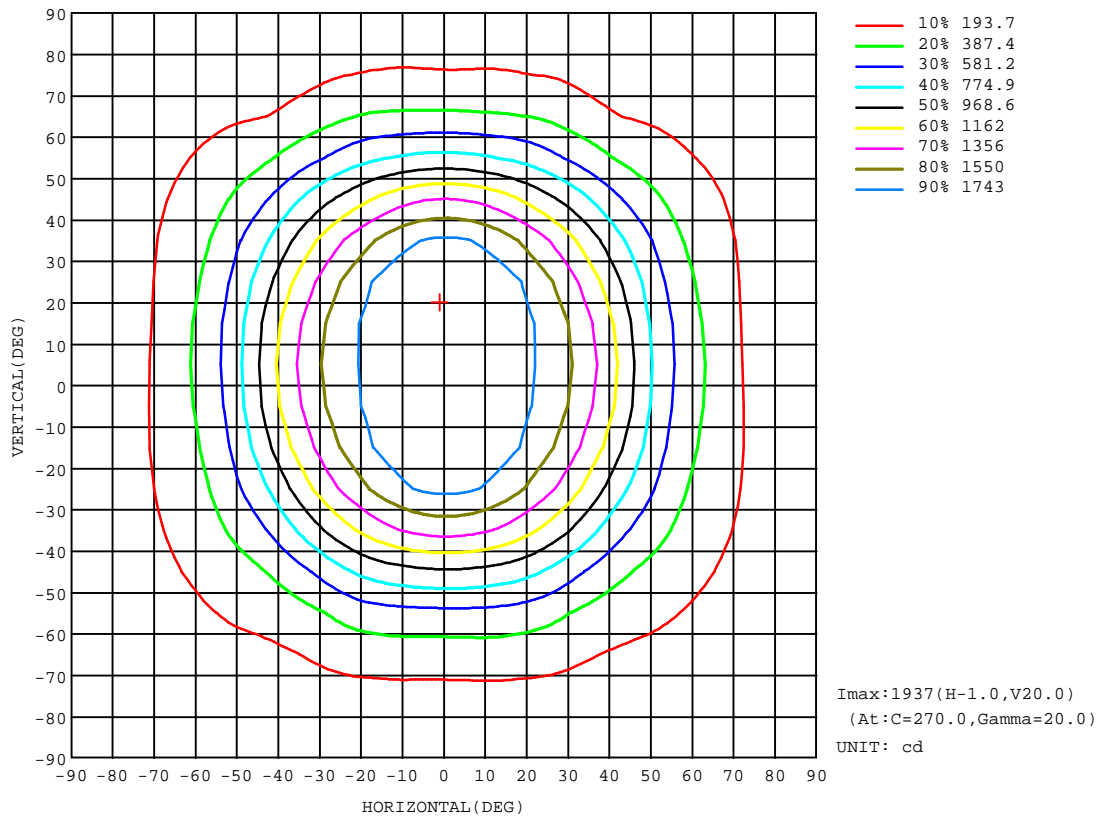
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	64	53	47	63	53	47	62	52	47	41
0.80	74	63	57	73	63	57	71	62	56	50
1.00	82	72	66	81	71	65	79	73	65	59
1.25	88	79	73	87	79	73	85	77	72	65
1.50	93	84	78	91	84	78	89	82	77	70
2.00	99	92	86	97	90	85	94	88	84	77
2.50	102	95	90	100	94	89	97	92	87	80
3.00	105	99	94	103	98	93	99	95	91	83
4.00	108	103	99	106	102	98	102	98	95	87
5.00	110	106	103	108	104	101	104	101	98	89
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:03
 Test Date:2018-02-05

g Range: 0 - 90DEG
 Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.281
 Humidity:60.0%
 Test Distance:11.540m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:240.8V I:0.1677A P:38.73W PF:0.9588 Lamp Flux:4414.34x1 lm		
NAME: PLU30120-聚飞4000K-双面进光-负极涂黑0.09	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: AXG	SUR.:	PROTECTION ANGLE:



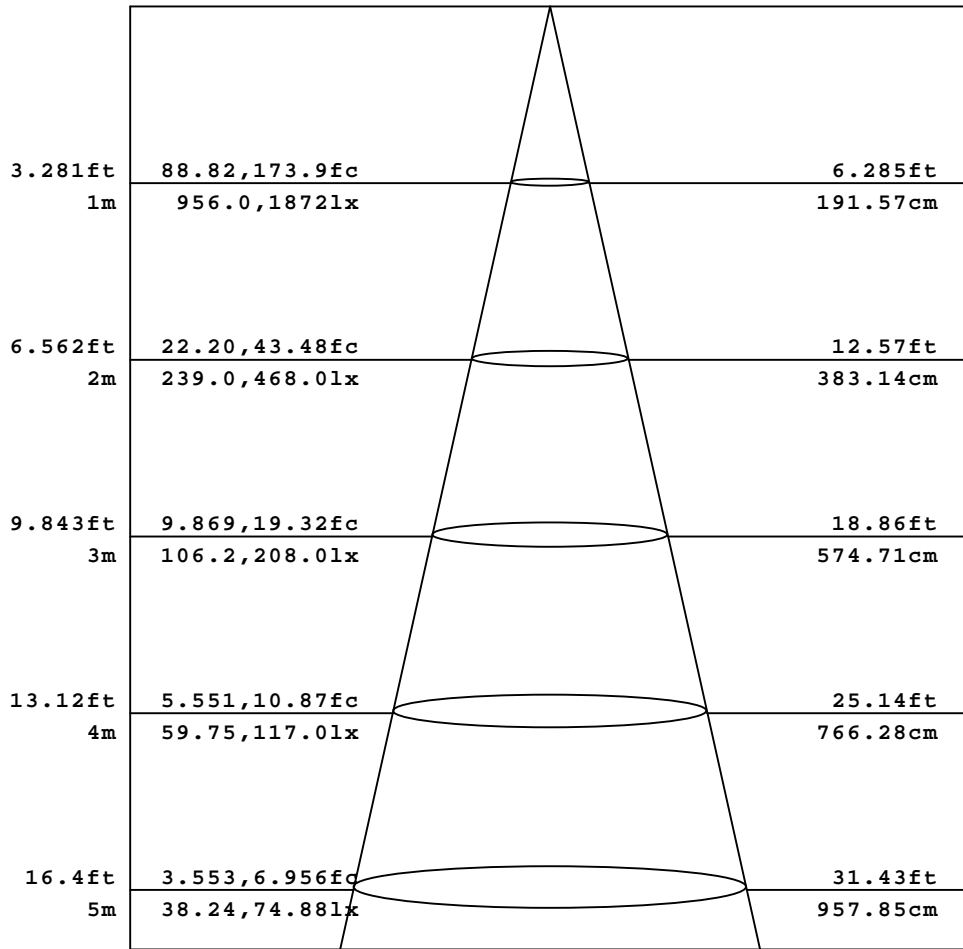
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:03
 Test Date:2018-02-05

Range: 0 - 90DEG
 Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.281
 Humidity:60.0%
 Test Distance:11.540m [K=1.0000]
 Remarks:

AAI Figure

Test:U:240.8V I:0.1677A P:38.73W PF:0.9588 Lamp Flux:4414.34x1 lm		
NAME: PLU30120-聚飞4000K-双面进光-负极涂黑0.09	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: AXG	SUR.:	PROTECTION ANGLE:

Flux out:2801 lm



Height Eavg, Emax Angle: 87.53deg Diameter

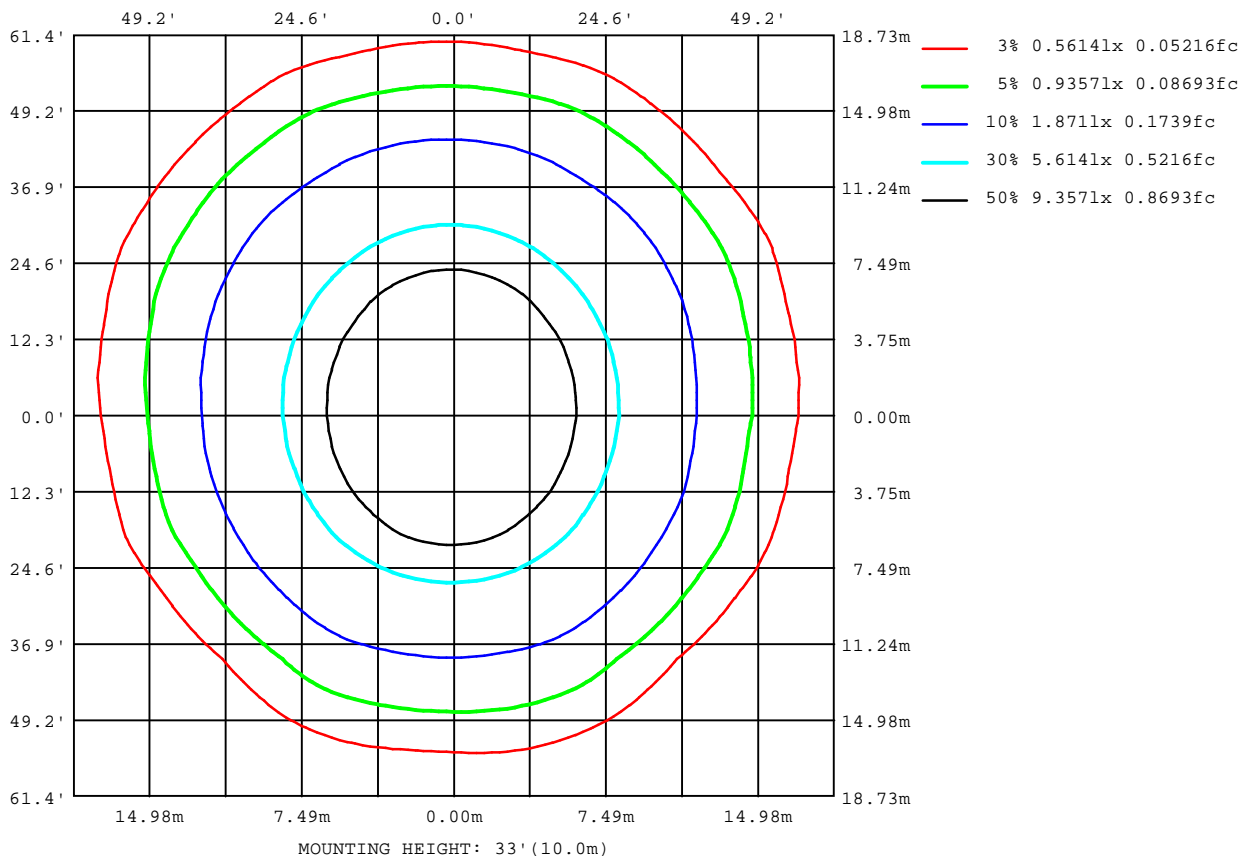
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: 03
 Test Date: 2018-02-05

Angle Range: 0 - 90DEG
 Angle Interval: 0.5DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.281
 Humidity: 60.0%
 Test Distance: 11.540m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

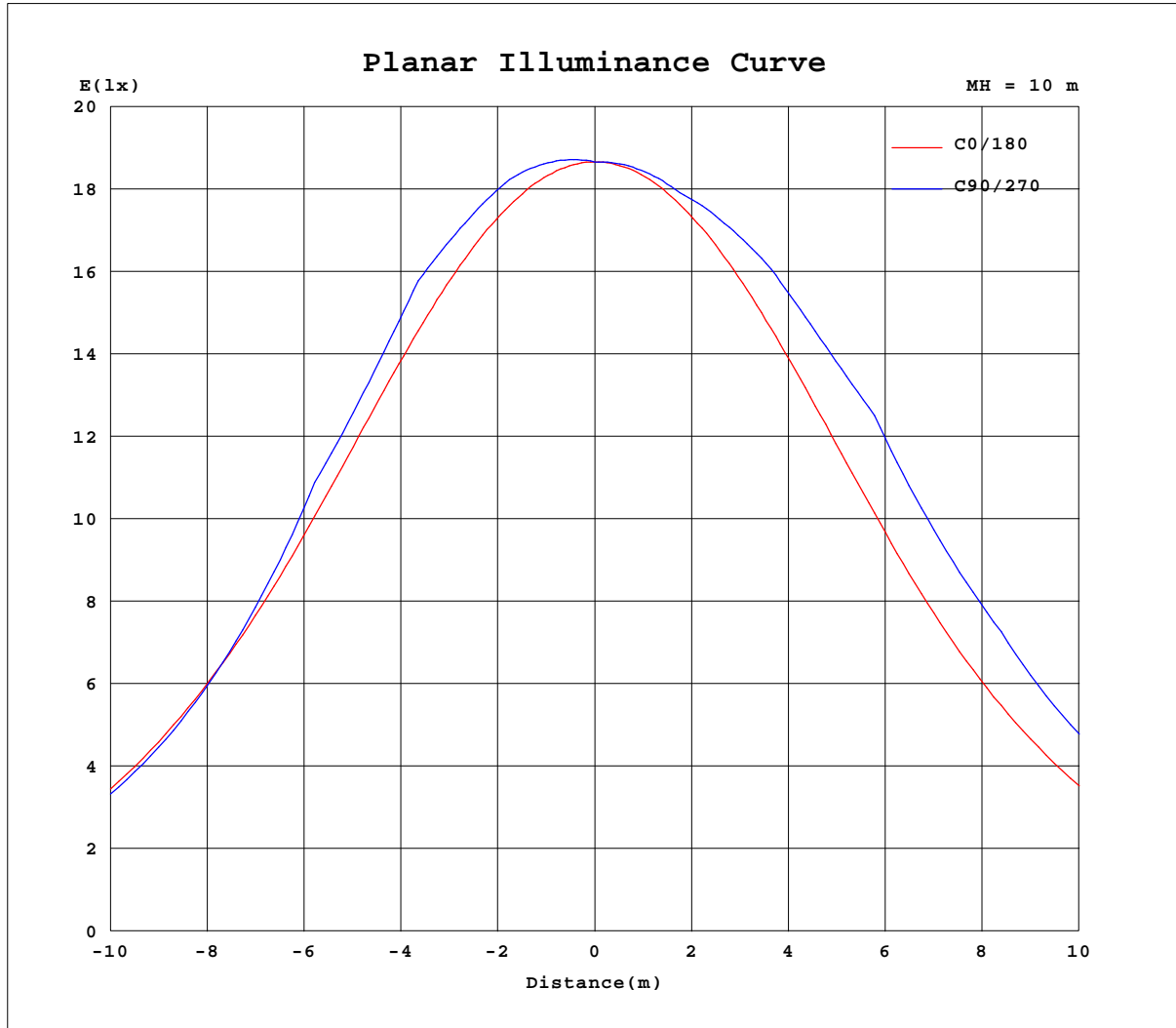
Test:U:240.8V I:0.1677A P:38.73W PF:0.9588 Lamp Flux:4414.34x1 lm		
NAME: PLU30120-聚飞4000K-双面进光-负极涂黑0.09	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: AXG	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:03
 Test Date:2018-02-05

log Range: 0 - 90DEG
 Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.281
 Humidity:60.0%
 Test Distance:11.540m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: 03
 Test Date: 2018-02-05

Range: 0 - 90DEG
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