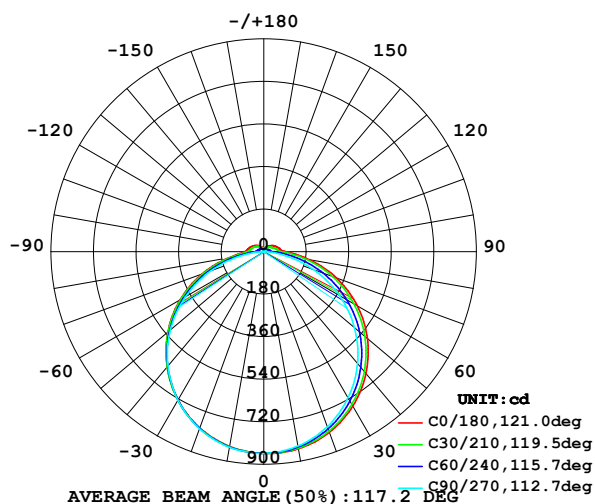


LUMINAIRE PHOTOMETRIC TEST REPORT

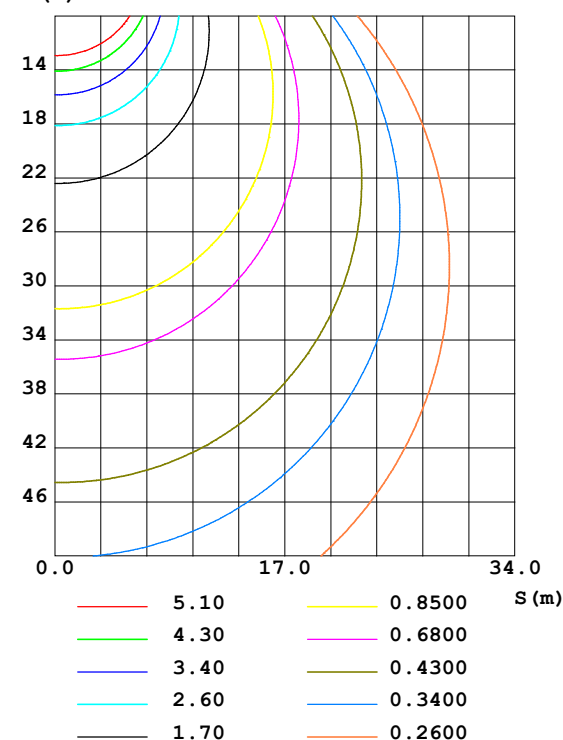
Test:U:230.3V I:0.1319A P:29.58W PF:0.9735 Lamp Flux:2795.12x1 lm		
NAME: TP-M2-030-NW	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 94.51 lm/W			
MODEL		I _{max} (cd)	854.1	S/MH (C0/180)	1.31
NOMINAL POWER(W)	30	LOR(%)	100.0	S/MH (C90/270)	1.25
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	2795.1	η UP,DN(C0-180)	3.1,46.7
NOMINAL FLUX(lm)	2795.12	CIE CLASS	DIRECT	η UP,DN(C180-360)	3.2,47.1
LAMPS INSIDE	1	η up (%)	6.3	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	230.1	η down (%)	93.7	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: GDT
Test Date: 2013-12-26

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.281
Humidity: 65.0%
Test Distance: 10.500m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	846.8	841.9	835.5	834.6	836.8	838.2	840.3	844.7	0- 10	80.81	80.81	2.89,2.89
20	813.7	803.3	788.0	788.0	793.3	794.6	796.9	808.7	10- 20	232.2	313.0	11.2,11.2
30	754.7	738.9	714.1	716.5	725.6	725.8	726.2	745.8	20- 30	353.9	666.8	23.9,23.9
40	673.3	651.9	617.3	623.5	636.5	634.5	631.6	659.6	30- 40	430.9	1098	39.3,39.3
50	573.0	546.2	501.5	512.7	530.3	524.5	516.6	553.6	40- 50	454.3	1552	55.5,55.5
60	456.5	425.3	369.1	386.9	409.7	399.5	383.5	431.1	50- 60	421.8	1974	70.6,70.6
70	328.5	292.5	224.7	252.0	278.7	264.1	237.3	297.3	60- 70	337.4	2311	82.7,82.7
80	196.2	158.6	81.25	120.5	150.7	130.5	88.24	160.6	70- 80	215.0	2526	90.4,90.4
90	94.26	61.15	1.450	49.39	81.48	55.51	2.094	59.54	80- 90	93.76	2620	93.7,93.7
100	69.58	40.54	1.836	40.23	68.77	45.48	2.542	38.34	90-100	47.58	2667	95.4,95.4
110	59.99	34.84	2.597	33.93	59.52	38.68	3.414	33.00	100-110	38.00	2705	96.8,96.8
120	50.45	29.04	3.435	28.69	50.35	32.69	4.358	28.18	110-120	30.27	2736	97.9,97.9
130	40.05	21.74	4.328	24.00	41.38	27.32	5.286	22.50	120-130	23.13	2759	98.7,98.7
140	30.83	16.28	5.278	19.21	32.62	22.13	6.095	17.19	130-140	16.25	2775	99.3,99.3
150	22.68	12.73	6.221	14.78	23.21	16.84	6.815	13.63	140-150	10.49	2786	99.7,99.7
160	14.73	9.873	6.947	11.28	16.31	12.30	7.339	10.70	150-160	5.954	2792	99.9,99.9
170	9.776	8.509	7.436	8.270	9.257	8.597	7.611	8.693	160-170	2.784	2794	100,100
180	7.832	7.737	7.729	7.782	7.811	7.758	7.722	7.797	170-180	0.7659	2795	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

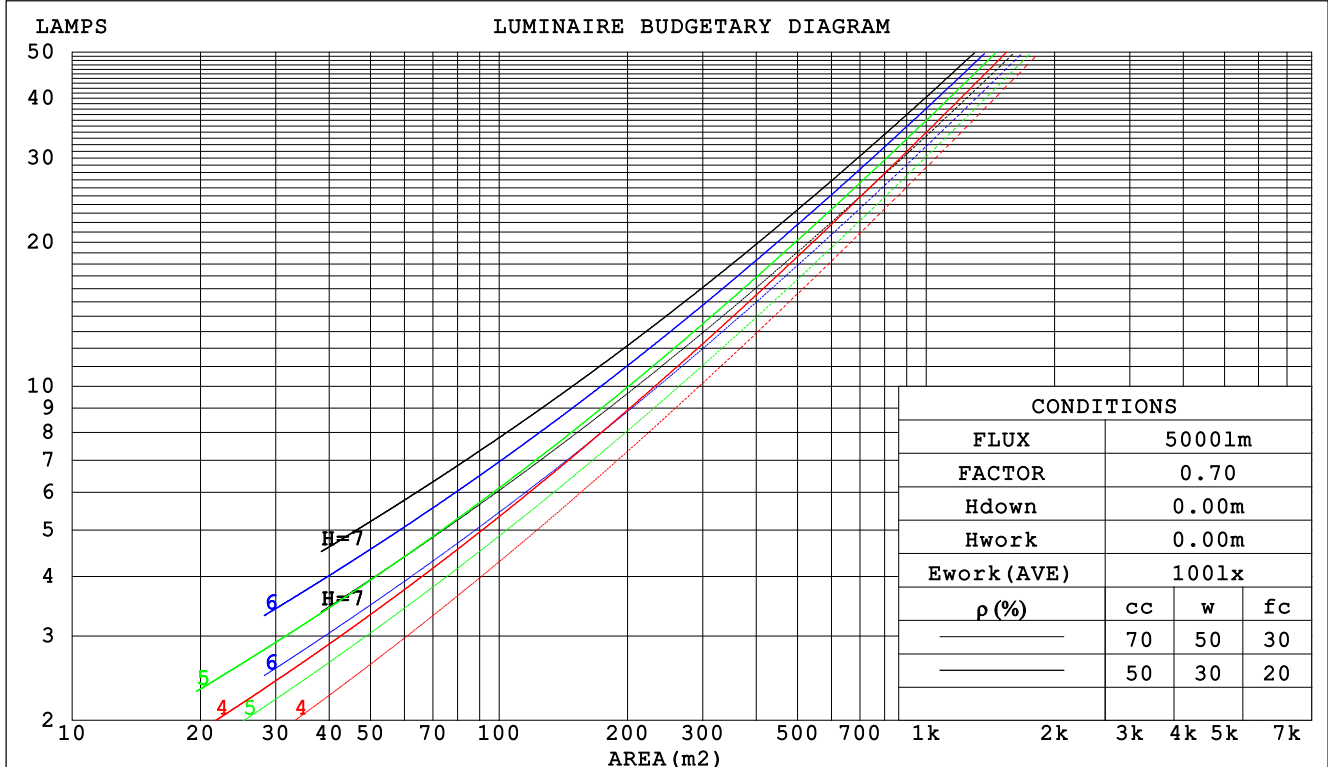
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:GDT
 Test Date:2013-12-26

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.281
 Humidity:65.0%
 Test Distance:10.500m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:230.3V I:0.1319A P:29.58W PF:0.9735 Lamp Flux:2795.12x1 lm		
NAME: TP-M2-030-NW	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.18	1.18	1.18	1.14	1.14	1.14	1.08	1.08	1.08	1.02	1.02	1.02	.96	.96	.96	.94
1.0	1.01	.97	.93	.98	.94	.90	.93	.90	.86	.88	.85	.83	.83	.81	.79	.77
2.0	.88	.81	.75	.85	.79	.73	.81	.75	.71	.76	.72	.68	.73	.69	.66	.63
3.0	.77	.68	.62	.75	.67	.61	.71	.64	.59	.67	.62	.57	.64	.59	.55	.53
4.0	.68	.59	.52	.66	.58	.51	.63	.55	.50	.60	.53	.48	.57	.51	.47	.45
5.0	.60	.51	.44	.59	.50	.44	.56	.48	.43	.53	.47	.42	.51	.45	.41	.38
6.0	.54	.45	.39	.53	.44	.38	.50	.43	.37	.48	.42	.36	.46	.40	.36	.33
7.0	.49	.40	.34	.48	.40	.34	.46	.38	.33	.44	.37	.32	.42	.36	.32	.29
8.0	.45	.36	.30	.44	.36	.30	.42	.35	.29	.40	.34	.29	.38	.33	.28	.26
9.0	.41	.33	.27	.40	.32	.27	.38	.31	.26	.37	.30	.26	.35	.30	.25	.23
10.0	.38	.30	.24	.37	.29	.24	.36	.29	.24	.34	.28	.23	.33	.27	.23	.21



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: GDT
 Test Date: 2013-12-26

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.281
 Humidity: 65.0%
 Test Distance: 10.500m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:230.3V I:0.1319A P:29.58W PF:0.9735 Lamp Flux:2795.12x1 lm					
NAME: TP-M2-030-NW			TYPE:		WEIGHT:
SPEC.:			DIM.:		SERIAL No.:
MFR.:			SUR.:		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	.331	.188	.060	.322	.183	.058	.305	.175	.056	.289	.167	.054	.275	.159	.051		
2.0	.303	.166	.051	.295	.163	.050	.280	.156	.048	.266	.149	.047	.253	.143	.045		
3.0	.277	.148	.044	.270	.145	.044	.257	.139	.042	.244	.134	.041	.233	.129	.040		
4.0	.254	.132	.039	.248	.130	.038	.236	.125	.037	.224	.120	.036	.214	.116	.035		
5.0	.234	.119	.035	.228	.117	.034	.217	.113	.033	.207	.109	.032	.198	.106	.032		
6.0	.216	.108	.031	.211	.106	.031	.201	.103	.030	.192	.100	.029	.183	.096	.029		
7.0	.200	.099	.028	.196	.098	.028	.187	.095	.027	.179	.092	.027	.171	.089	.026		
8.0	.187	.091	.026	.183	.090	.025	.175	.087	.025	.167	.085	.024	.160	.082	.024		
9.0	.175	.085	.024	.171	.083	.023	.164	.081	.023	.157	.079	.022	.150	.076	.022		
10.0	.164	.079	.022	.161	.078	.022	.154	.075	.021	.148	.073	.021	.142	.071	.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	.238	.238	.238	.204	.204	.204	.139	.139	.139	.080	.080	.080	.026	.026	.026	
1.0	.230	.204	.181	.197	.175	.156	.135	.121	.108	.077	.070	.063	.025	.022	.020	
2.0	.222	.180	.145	.190	.155	.125	.130	.107	.087	.075	.062	.051	.024	.020	.017	
3.0	.215	.163	.122	.184	.141	.106	.126	.098	.074	.073	.057	.044	.023	.019	.014	
4.0	.207	.150	.107	.178	.130	.093	.122	.090	.065	.071	.053	.039	.023	.017	.013	
5.0	.200	.140	.096	.171	.121	.083	.118	.085	.059	.068	.050	.035	.022	.016	.012	
6.0	.192	.132	.088	.165	.114	.077	.114	.080	.054	.066	.047	.032	.021	.015	.011	
7.0	.185	.125	.082	.160	.108	.072	.110	.076	.051	.064	.045	.030	.021	.015	.010	
8.0	.179	.119	.078	.154	.103	.068	.107	.073	.048	.062	.043	.029	.020	.014	.010	
9.0	.173	.114	.075	.149	.099	.065	.103	.070	.046	.060	.041	.028	.019	.014	.009	
10.0	.167	.110	.072	.144	.096	.063	.100	.067	.045	.058	.040	.027	.019	.013	.009	

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:GDT
Test Date:2013-12-26

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.281
Humidity:65.0%
Test Distance:10.500m [K=1.0000]
Remarks:

Uncorrected UGR Table

Test:U:230.3V I:0.1319A P:29.58W PF:0.9735 Lamp Flux:2795.12x1 lm											
NAME: TP-M2-030-NW						TYPE:			WEIGHT:		
SPEC.:						DIM.:			SERIAL No.:		
MFR.:						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	20.4	21.9	20.8	22.2	22.5	19.6	21.1	20.0	21.4	21.7	
	22.4	23.7	22.8	24.1	24.4	21.1	22.4	21.5	22.8	23.1	
	23.3	24.6	23.7	24.9	25.3	21.6	22.9	22.0	23.3	23.7	
	24.2	25.4	24.6	25.8	26.2	22.0	23.2	22.4	23.6	24.0	
	24.6	25.7	25.0	26.1	26.6	22.0	23.2	22.5	23.6	24.0	
	25.0	26.1	25.4	26.5	27.0	22.1	23.2	22.5	23.6	24.0	
4H	2H	21.0	22.3	21.4	22.7	23.0	20.4	21.7	20.8	22.0	22.4
	3H	23.2	24.3	23.6	24.7	25.1	22.1	23.2	22.5	23.6	24.1
	4H	24.2	25.3	24.7	25.7	26.2	22.8	23.8	23.2	24.2	24.7
	6H	25.3	26.2	25.8	26.7	27.2	23.3	24.2	23.8	24.6	25.1
	8H	25.8	26.7	26.3	27.1	27.6	23.4	24.2	23.9	24.7	25.2
	12H	26.3	27.1	26.8	27.6	28.1	23.4	24.2	24.0	24.7	25.3
8H	4H	24.5	25.4	25.0	25.9	26.4	23.3	24.1	23.8	24.6	25.1
	6H	25.8	26.5	26.3	27.0	27.6	24.0	24.7	24.5	25.2	25.8
	8H	26.5	27.1	27.0	27.6	28.2	24.2	24.8	24.8	25.4	26.0
	12H	27.2	27.7	27.7	28.3	28.9	24.4	24.9	24.9	25.5	26.1
12H	4H	24.5	25.3	25.1	25.8	26.4	23.4	24.1	23.9	24.6	25.2
	6H	25.9	26.5	26.4	27.0	27.6	24.2	24.8	24.7	25.3	25.9
	8H	26.6	27.1	27.2	27.7	28.3	24.5	25.0	25.1	25.6	26.2
Variations with the observer position at spacings:											
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.2					
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3					
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.4					

CIE Pub.117 Corrected 2795 lm Total Lamp Luminous Flux.(8log(F/F0) = 3.6)

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:GDT
Test Date:2013-12-26

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.281
Humidity:65.0%
Test Distance:10.500m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:230.3V I:0.1319A P:29.58W PF:0.9735 Lamp Flux:2795.12x1 lm		
NAME: TP-M2-030-NW	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

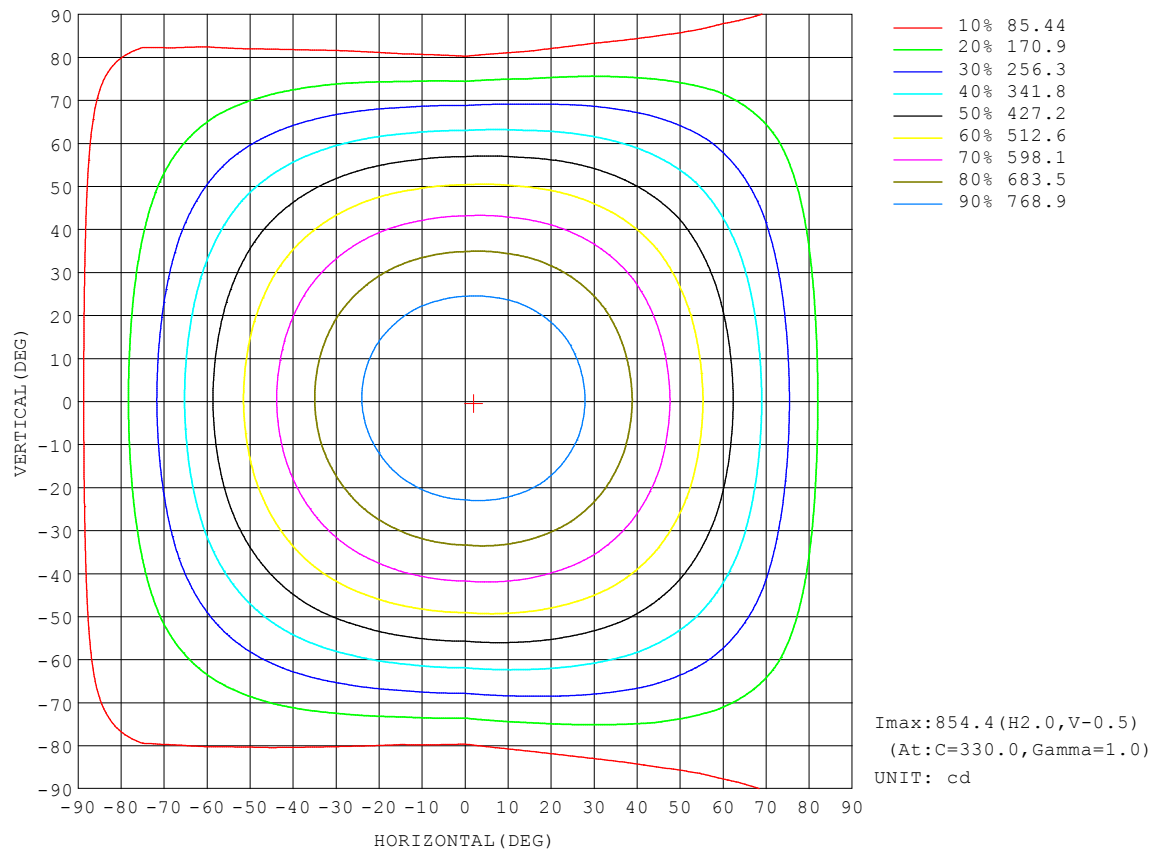
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	54	42	35	53	42	35	52	41	35	28
0.80	64	52	44	63	51	44	61	50	44	36
1.00	72	61	53	71	60	53	68	61	52	44
1.25	79	68	61	78	67	60	74	65	59	51
1.50	84	74	66	82	73	66	79	70	64	56
2.00	91	82	75	89	81	74	85	78	72	63
2.50	96	87	80	93	85	79	88	82	77	67
3.00	99	91	85	96	89	84	91	86	81	71
4.00	103	97	92	100	95	90	95	90	86	76
5.00	106	100	96	103	98	94	97	93	90	79
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: GDT
Test Date: 2013-12-26

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.281
Humidity: 65.0%
Test Distance: 10.500m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:230.3V I:0.1319A P:29.58W PF:0.9735 Lamp Flux:2795.12x1 lm		
NAME: TP-M2-030-NW	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

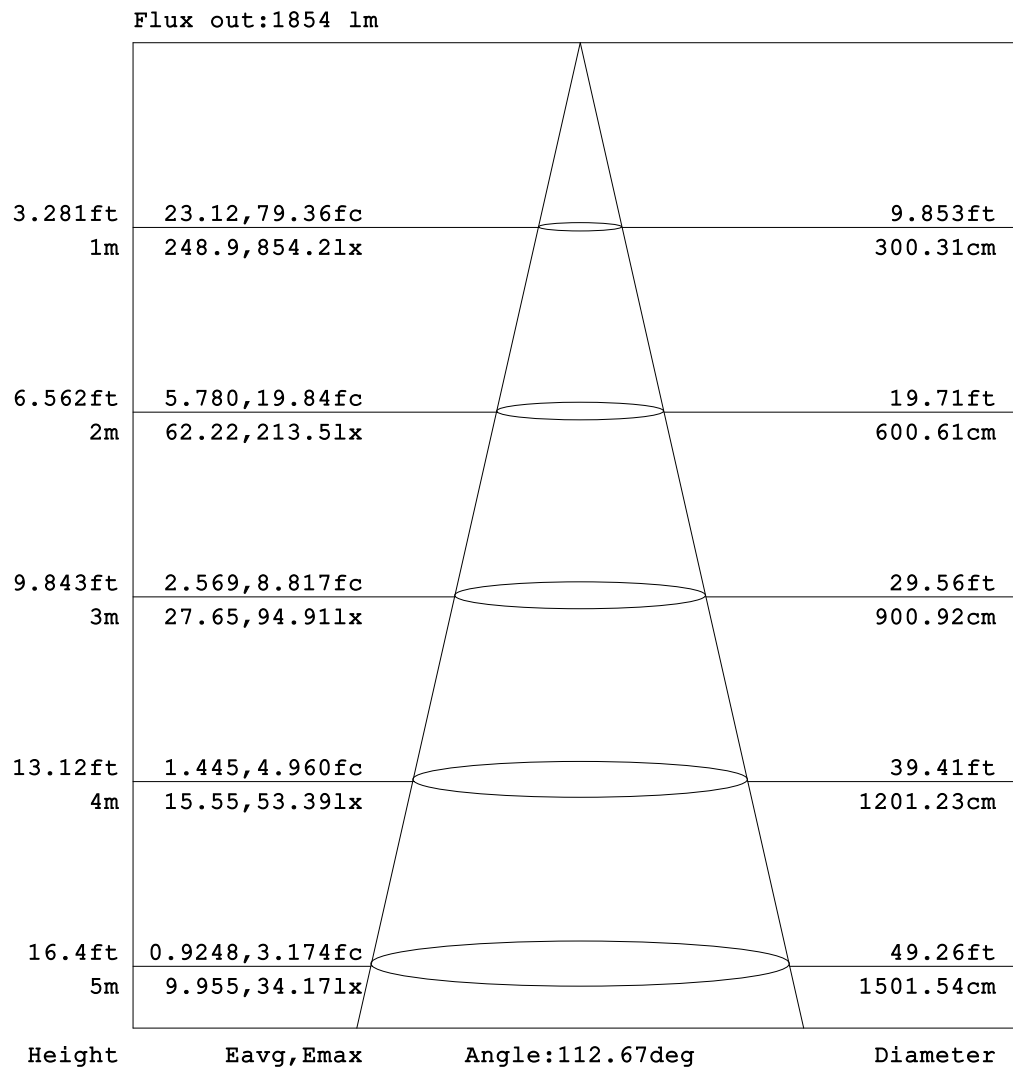


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:GDT
Test Date:2013-12-26

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.281
Humidity:65.0%
Test Distance:10.500m [K=1.0000]
Remarks:

AAI Figure

Test:U:230.3V I:0.1319A P:29.58W PF:0.9735 Lamp Flux:2795.12x1 lm		
NAME: TP-M2-030-NW	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:



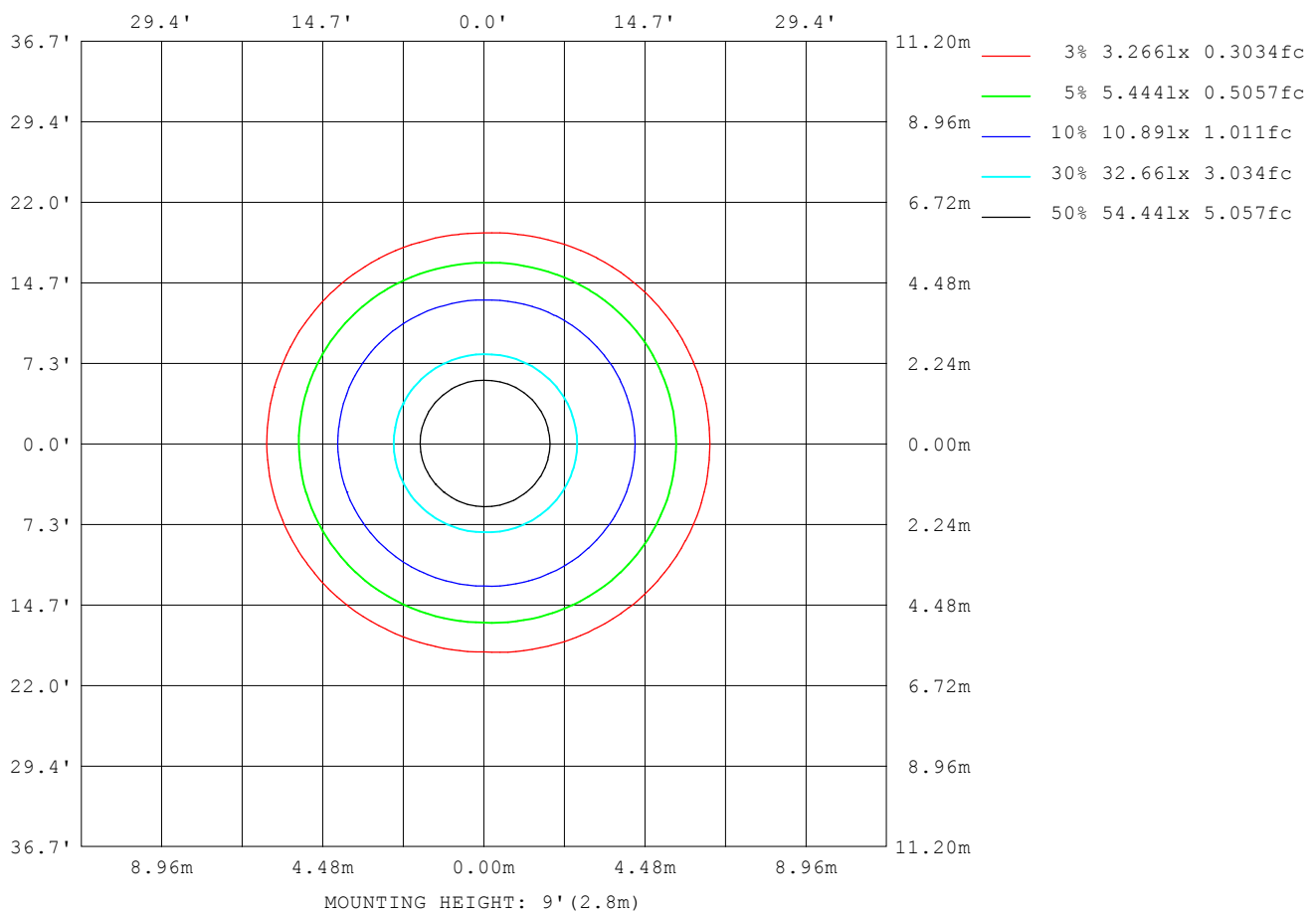
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:GDT
Test Date:2013-12-26

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.281
Humidity:65.0%
Test Distance:10.500m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

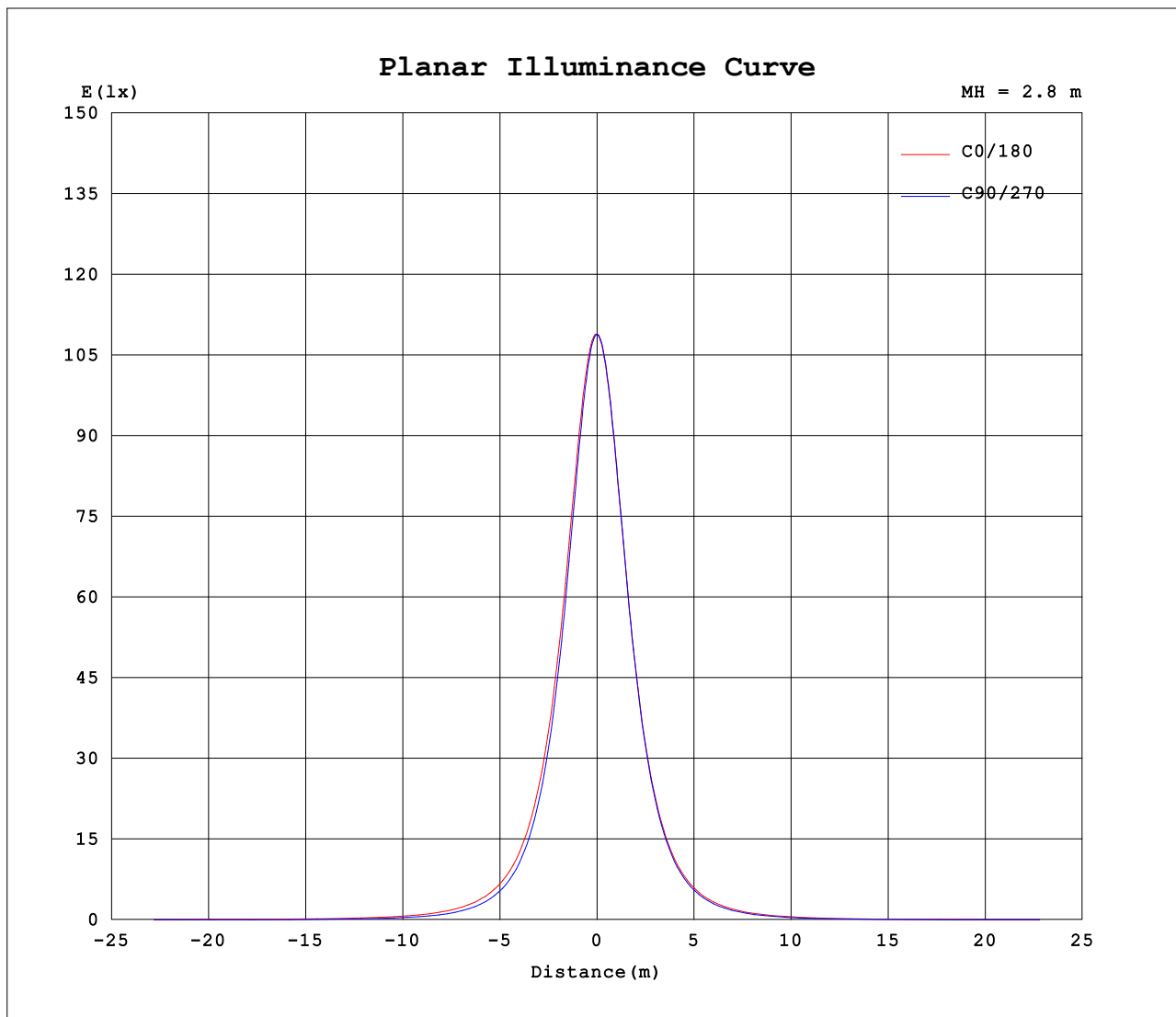
Test:U:230.3V I:0.1319A P:29.58W PF:0.9735 Lamp Flux:2795.12x1 lm		
NAME: TP-M2-030-NW	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: GDT
Test Date: 2013-12-26

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.281
Humidity: 65.0%
Test Distance: 10.500m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: GDT
Test Date: 2013-12-26

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.281
Humidity: 65.0%
Test Distance: 10.500m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.3V I:0.1319A P:29.58W PF:0.9735 Lamp Flux:2795.12x1 lm																			
NAME: TP-M2-030-NW										TYPE:					WEIGHT:				
SPEC.:										DIM.:					SERIAL No.:				
MFR.:										SUR.:					PROTECTION ANGLE:				

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	853	853	853	853	853	853	853	853	853	853	853	853	853	853	853	853	853	853	853
5	853	852	852	851	850	849	848	848	847	847	847	847	848	848	849	849	850	850	850
10	847	845	844	842	840	837	835	835	834	835	835	835	837	837	838	838	839	839	840
15	834	832	829	826	822	818	815	814	814	815	815	816	818	818	819	820	820	821	822
20	814	812	808	803	797	793	788	786	786	788	789	791	793	794	795	795	795	795	797
25	787	784	780	774	767	760	754	753	753	755	757	760	762	762	764	763	764	763	765
30	755	752	746	739	729	721	714	713	713	716	719	723	726	726	727	726	725	725	726
35	717	713	707	698	687	677	669	667	669	673	676	681	683	684	684	683	682	681	682
40	673	670	662	652	639	627	617	616	618	624	628	633	636	637	637	635	633	630	632
45	625	621	612	601	586	573	562	561	564	570	576	582	586	585	585	582	579	576	577
50	573	569	559	546	530	515	502	501	505	513	519	526	530	530	529	524	521	516	517
55	516	512	501	487	469	452	437	437	442	451	459	467	471	471	469	464	458	452	452
60	457	452	440	425	405	385	369	369	376	387	396	405	410	409	406	399	393	385	384
65	394	389	376	360	337	316	298	299	308	320	330	340	345	344	340	333	324	314	312
70	328	324	311	292	269	245	225	227	238	252	263	274	279	278	273	264	254	242	237
75	262	257	244	225	199	173	151	155	169	184	196	207	212	211	206	195	183	168	161
80	196	192	178	159	133	105	81.3	87.1	104	120	134	145	151	149	142	130	117	99.1	88.2
85	137	133	119	99.9	74.4	48.0	23.4	33.2	51.6	70.6	86.2	98.3	104	101	93.2	78.9	62.3	43.3	28.3
90	94.3	90.7	78.7	61.1	39.1	17.1	1.45	11.1	30.4	49.4	65.0	76.1	81.5	79.0	70.0	55.5	37.3	17.1	2.09
95	75.3	72.3	62.2	47.1	27.2	11.9	1.49	8.78	26.4	43.9	58.3	68.4	73.5	71.1	62.7	49.5	32.3	14.0	2.16
100	69.6	66.2	57.3	40.5	26.1	10.6	1.84	7.76	23.6	40.2	54.1	63.8	68.8	66.4	58.4	45.5	29.2	12.4	2.54
105	64.6	62.0	51.1	35.9	23.8	9.86	2.21	7.36	21.5	36.9	50.1	59.3	64.2	61.9	54.3	41.9	26.8	11.5	2.96
110	60.0	57.5	46.4	34.8	21.9	9.62	2.60	7.05	19.8	33.9	46.2	54.9	59.5	57.4	50.2	38.7	24.6	10.9	3.41
115	55.3	50.7	39.7	31.7	20.0	9.18	3.01	6.39	18.4	31.2	42.5	50.5	54.9	53.0	46.2	35.6	22.8	10.5	3.88
120	50.4	44.6	37.1	29.0	17.8	8.43	3.44	6.54	17.1	28.7	38.9	46.2	50.3	48.6	42.4	32.7	21.2	10.2	4.36
125	45.7	41.3	34.4	24.7	15.7	7.86	3.88	6.76	15.9	26.3	35.5	42.0	45.8	44.2	38.7	30.0	19.7	9.88	4.82
130	40.1	37.0	31.1	21.7	13.9	7.51	4.33	6.83	14.4	24.0	32.1	37.9	41.4	40.0	35.0	27.3	18.3	9.64	5.29
135	34.9	30.7	26.1	18.9	12.6	7.42	4.80	6.92	12.9	21.8	28.8	33.9	37.0	35.7	31.4	24.8	16.8	9.33	5.71
140	30.8	27.9	22.5	16.3	11.5	7.39	5.28	6.85	12.2	19.2	25.6	29.9	32.6	31.5	27.8	22.1	15.2	9.02	6.10
145	25.8	25.1	18.8	14.4	10.5	7.36	5.76	6.88	11.5	16.5	22.3	26.0	28.1	27.2	24.1	19.3	13.8	8.67	6.47
150	22.7	19.8	15.8	12.7	9.62	7.45	6.22	6.97	10.7	14.8	18.5	21.8	23.2	22.5	20.3	16.8	12.4	8.30	6.81
155	19.1	16.6	13.2	11.1	9.17	7.61	6.62	7.12	9.76	13.1	15.9	17.8	19.8	19.2	17.4	14.6	11.1	8.06	7.12
160	14.7	13.1	11.2	9.87	8.92	7.64	6.95	7.26	8.79	11.3	13.4	15.0	16.3	15.7	14.4	12.3	9.69	7.91	7.34
165	11.6	10.8	9.61	9.33	8.48	7.64	7.23	7.39	8.17	9.46	11.0	12.0	12.9	12.4	11.5	10.2	8.63	7.80	7.51
170	9.78	8.96	8.44	8.51	8.00	7.63	7.44	7.50	7.82	8.27	8.80	9.29	9.26	9.34	9.01	8.60	7.94	7.72	7.61
175	8.02	7.80	7.90	7.89	7.71	7.68	7.60	7.66	7.70	7.71	7.78	7.86	7.90	8.01	7.81	7.87	7.75	7.70	7.69
180	7.83	7.74	7.66	7.74	7.71	7.75	7.73	7.83	7.81	7.78	7.79	7.77	7.81	7.73	7.64	7.76	7.73	7.76	7.72

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:GDT
Test Date:2013-12-26

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.281
Humidity:65.0%
Test Distance:10.500m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.3V I:0.1319A P:29.58W PF:0.9735 Lamp Flux:2795.12x1 lm		
NAME: TP-M2-030-NW	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

Table--2

UNIT: cd

C (DEG) γ (DEG)	285	300	315	330	345														
0	853	853	853	853	853														
5	851	852	853	853	853														
10	842	843	845	847	847														
15	824	828	830	833	833														
20	800	805	809	812	813														
25	768	775	780	785	786														
30	731	739	746	752	754														
35	688	697	705	713	715														
40	638	650	660	668	671														
45	584	597	609	619	623														
50	525	540	554	565	570														
55	462	479	494	508	514														
60	395	414	431	446	453														
65	324	346	365	382	390														
70	252	276	297	315	325														
75	177	205	228	248	258														
80	107	136	161	181	192														
85	47.4	75.6	100	121	132														
90	13.5	37.2	59.5	78.4	90.1														
95	9.54	28.9	47.0	62.0	72.0														
100	8.48	22.2	38.3	56.5	66.8														
105	8.22	21.0	34.7	46.7	61.8														
110	8.31	20.4	33.0	41.4	51.7														
115	8.32	19.3	31.0	40.8	45.0														
120	8.01	17.6	28.2	37.5	42.1														
125	7.85	15.4	25.7	35.1	40.8														
130	7.78	14.1	22.5	31.8	36.5														
135	7.75	12.9	19.0	27.7	32.2														
140	7.74	12.1	17.2	23.6	29.6														
145	7.73	11.2	15.2	19.4	26.1														
150	7.75	10.4	13.6	16.8	22.0														
155	7.78	9.69	12.0	14.5	17.8														
160	7.80	9.14	10.7	12.3	14.3														
165	7.80	8.67	9.59	10.5	11.4														
170	7.80	8.19	8.69	8.96	8.97														
175	7.84	7.95	8.04	8.17	8.15														
180	7.83	7.81	7.80	7.80	7.78														

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:GDT
 Test Date:2013-12-26

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.281
 Humidity:65.0%
 Test Distance:10.500m [K=1.0000]
 Remarks: