

## LED Projector 48W(30°)

FL48W03(4500K)



Light Output Ratio:	100.0%	
Luminaire Power:	48.4 W	
SHR Nominal:	0.00	Calculated using the TM5
SHR Maximum:	1.00	fine grid method.

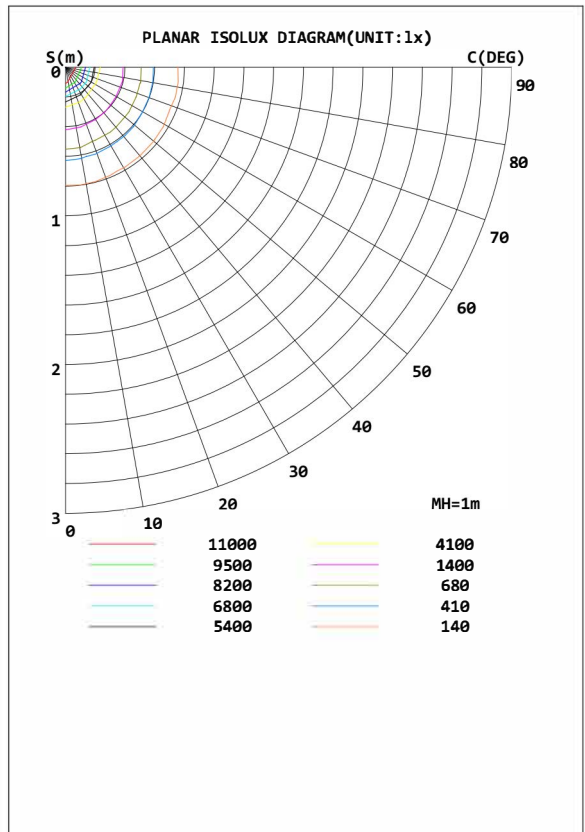
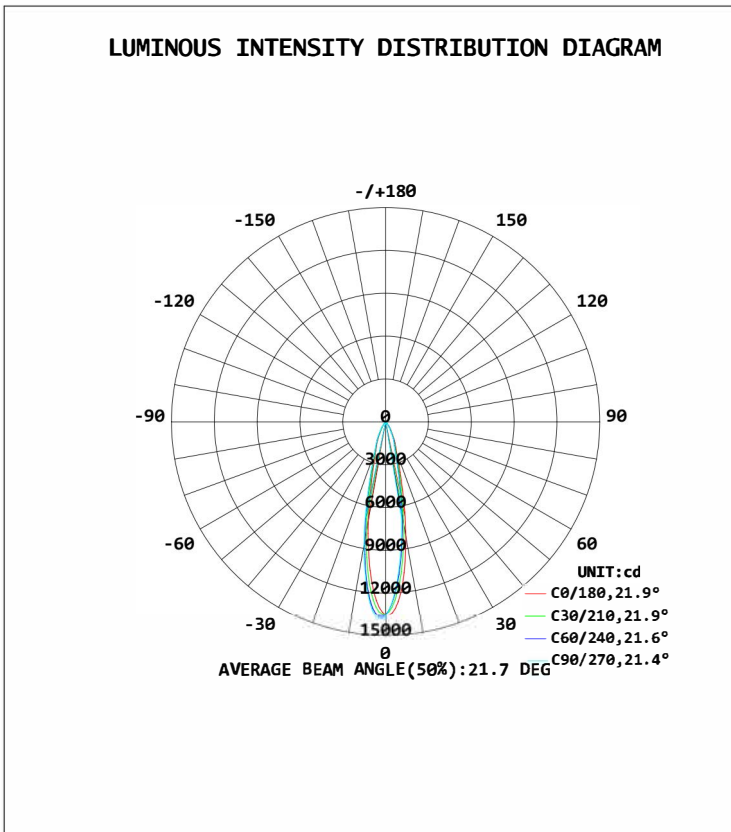
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: Leo  
Test Date: 2013-08-10

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE G0-2000B\_V1 SYSTEM V2.0.267  
Humidity: 65.0%  
Test Distance: 7.300m [K=1.0000]  
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:230.5V I:0.2160A P:48.40W PF:0.9710 Lamp Flux:3333.62x1 lm		
NAME: LED Projector 48W(30°)	TYPE:	WEIGHT:
DIM.: 290*220*60mm	SPEC.:4500K	SERIAL No.:2013081005
MFR.: INTEGRATECH	SUR.:180*170mm	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 68.88 lm/W
MODEL	BLP-FL48W03(4500K)	I <sub>max</sub> (cd)	13877	S/MH(C0/180)	0.40	
NOMINAL POWER(W)	48	LOR(%)	100.0	S/MH(C90/270)	0.32	
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	3333.6	η UP, DN(C0-180)	2.1, 44.9	
NOMINAL FLUX(lm)	3333.62	CIE CLASS	DIRECT	η UP, DN(C180-360)	2.4, 50.5	
LAMPS INSIDE	1	η up(%)	4.5	CIBSE SHR NOM	0.00	
TEST VOLTAGE(V)	230.6	η down(%)	95.5	CIBSE SHR MAX	1.00	



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
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γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE G0-2000B\_V1 SYSTEM V2.0.267  
 Humidity: 65.0%  
 Test Distance: 7.300m [K=1.0000]  
 Remarks:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum,lamp
10	818.3	710.5	640.5	692.6	700.1	799.6	873.3	820.4	0- 10	977.9	977.9	29.3,29.3
20	224.9	199.6	183.8	194.0	195.8	210.9	224.2	216.4	10- 20	1096	2074	62.2,62.2
30	81.41	72.89	66.73	67.56	67.07	75.32	84.04	77.97	20- 30	603.9	2678	80.3,80.3
40	22.28	20.33	16.06	17.87	18.68	20.71	24.46	22.73	30- 40	270.6	2949	88.5,88.5
50	9.335	8.554	7.979	8.006	9.311	9.959	9.955	10.21	40- 50	96.38	3045	91.3,91.3
60	5.053	4.401	4.173	4.208	5.303	5.407	5.719	5.561	50- 60	61.74	3107	93.2,93.2
70	2.695	2.281	2.289	2.226	3.023	2.995	3.287	3.014	60- 70	36.79	3144	94.3,94.3
80	1.578	1.401	1.346	1.366	1.922	1.978	2.044	1.980	70- 80	22.80	3166	95,95
90	1.078	1.051	1.036	1.031	1.506	1.520	1.526	1.507	80- 90	15.69	3182	95.5,95.5
100	0.8806	0.8713	0.8628	0.8563	1.509	1.497	1.481	1.474	90-100	13.27	3195	95.8,95.8
110	0.8915	0.8991	0.9127	0.9004	1.816	1.777	1.726	1.731	100-110	12.85	3208	96.2,96.2
120	1.497	1.534	1.596	1.562	2.481	2.420	2.366	2.376	110-120	15.99	3224	96.7,96.7
130	2.779	2.829	2.915	2.862	2.949	2.881	2.821	2.827	120-130	21.56	3246	97.4,97.4
140	3.856	3.875	3.908	3.871	3.691	3.611	3.532	3.548	130-140	25.45	3271	98.1,98.1
150	4.375	4.380	4.383	4.351	4.350	4.289	4.244	4.233	140-150	25.43	3297	98.9,98.9
160	4.575	4.569	4.550	4.521	4.530	4.470	4.445	4.440	150-160	20.51	3317	99.5,99.5
170	4.372	4.344	4.273	4.252	4.292	4.247	4.265	4.283	160-170	12.61	3330	99.9,99.9
180	4.049	4.023	3.948	3.988	4.055	4.015	3.952	3.983	170-180	3.950	3334	100,100
DEG	LUMINOUS INTENSITY: $\times 10$ cd									UNIT:lm		

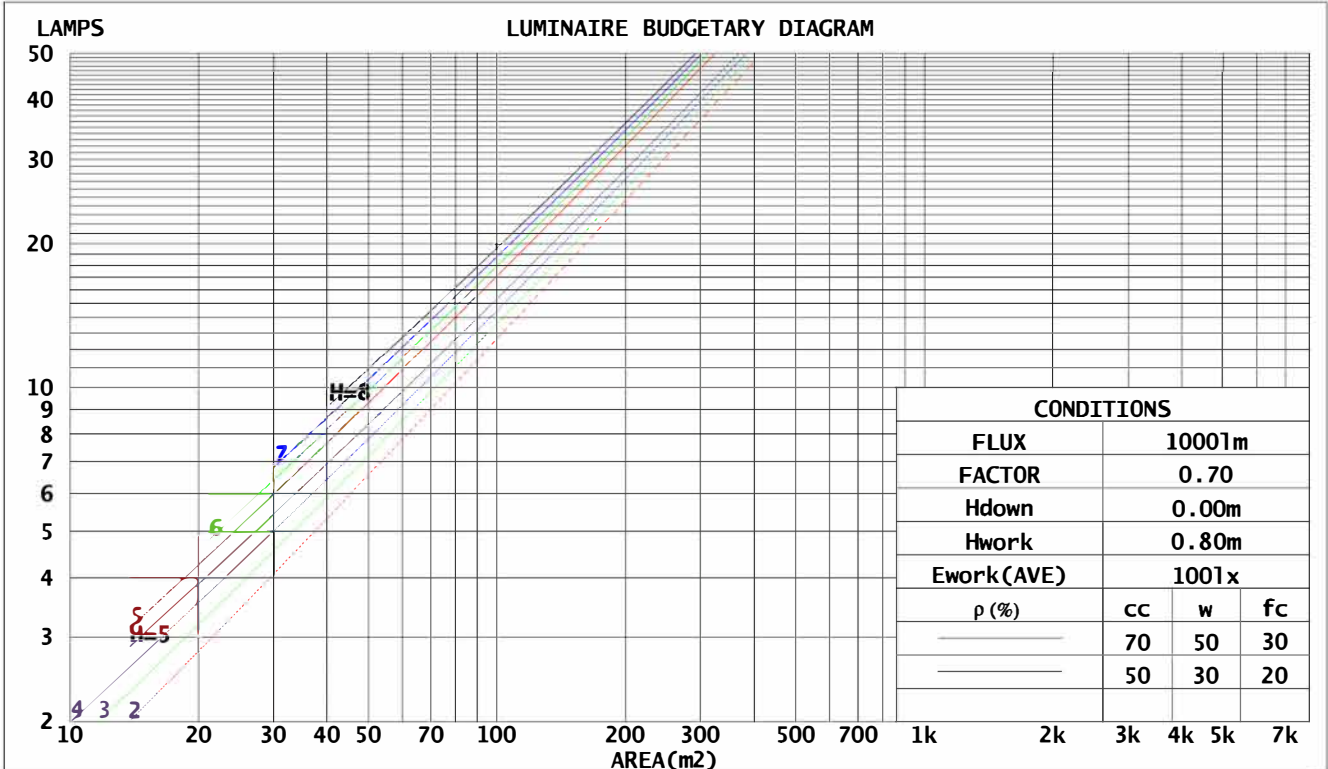
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 Test System: EVERFINE G0-2000B\_V1 SYSTEM V2.0.267  
 Humidity: 65.0%  
 Test Distance: 7.300m [K=1.0000]  
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:230.5V I:0.2160A P:48.40W PF:0.9710 Lamp Flux:3333.62x1 lm		
NAME: LED Projector 48W(30°)	TYPE:	WEIGHT:
DIM.: 290*220*60mm	SPEC.:4500K	SERIAL No.:2013081005
MFR.: INTEGRATECH	SUR.:180*170mm	PROTECTION ANGLE:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.18	1.18	1.18	1.15	1.15	1.15	1.09	1.09	1.09	1.03	1.03	1.03	.98	.98	.98	.95
1.0	1.10	1.08	1.06	1.08	1.06	1.04	1.03	1.01	.00	.98	.97	.96	.94	.93	.92	.90
2.0	1.04	1.00	.97	1.02	.98	.96	.98	.95	.93	.94	.92	.90	.91	.89	.88	.86
3.0	.98	.94	.90	.96	.92	.89	.93	.90	.87	.90	.87	.85	.87	.85	.83	.82
4.0	.93	.88	.85	.92	.87	.84	.89	.85	.82	.87	.83	.81	.84	.82	.80	.78
5.0	.89	.84	.80	.87	.83	.79	.85	.81	.78	.83	.80	.77	.81	.79	.76	.75
6.0	.85	.80	.76	.84	.79	.76	.82	.78	.75	.80	.77	.74	.79	.76	.73	.72
7.0	.81	.76	.73	.80	.76	.72	.79	.75	.72	.77	.74	.71	.76	.73	.70	.69
8.0	.78	.73	.70	.77	.73	.70	.76	.72	.69	.75	.71	.68	.74	.70	.68	.67
9.0	.75	.70	.67	.75	.70	.67	.73	.69	.67	.72	.69	.66	.71	.68	.66	.65
10.0	.73	.68	.65	.72	.68	.65	.71	.67	.64	.70	.66	.64	.69	.66	.64	.62



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Leo  
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 γ Interval: 1.0DEG  
 Test System:EVERFINE G0-2000B\_V1 SYSTEM V2.0.267  
 Humidity:65.0%  
 Test Distance:7.300m [K=1.0000]  
 Remarks:

WEC AND CCEC

Test:U:230.5V I:0.2160A P:48.40W PF:0.9710 Lamp Flux:3333.62x1 lm		
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DIM.: 290*220*60mm	SPEC.:4500K	SERIAL No.:2013081005
MFR.: INTEGRATECH	SUR.:180*170mm	PROTECTION ANGLE:

ρ <sub>CC</sub>	80%			70%			50%			30%			10%			0
ρ <sub>w</sub>	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ <sub>fc</sub>	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.166	.095	.030	.158	.090	.029	.143	.082	.026	.129	.075	.024	.116	.067	.022	
2.0	.154	.084	.026	.147	.081	.025	.134	.075	.023	.123	.069	.022	.112	.063	.020	
3.0	.143	.076	.023	.138	.074	.022	.127	.069	.021	.116	.064	.020	.107	.059	.018	
4.0	.134	.070	.021	.129	.068	.020	.120	.063	.019	.111	.059	.018	.102	.056	.017	
5.0	.126	.064	.019	.122	.062	.018	.113	.059	.017	.105	.056	.017	.098	.052	.016	
6.0	.119	.060	.017	.115	.058	.017	.108	.055	.016	.101	.052	.015	.094	.050	.015	
7.0	.113	.056	.016	.109	.054	.015	.102	.052	.015	.096	.049	.014	.090	.047	.014	
8.0	.107	.052	.015	.104	.051	.014	.098	.049	.014	.092	.047	.013	.087	.045	.013	
9.0	.102	.049	.014	.099	.048	.014	.094	.046	.013	.088	.044	.013	.084	.042	.012	
10.0	.097	.047	.013	.094	.046	.013	.090	.044	.012	.085	.042	.012	.081	.041	.012	

ρ <sub>CC</sub>	80%			70%			50%			30%			10%			0
ρ <sub>w</sub>	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ <sub>fc</sub>	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.225	.225	.225	.192	.192	.192	.131	.131	.131	.075	.075	.075	.024	.024	.024	
1.0	.205	.192	.181	.176	.165	.155	.120	.114	.108	.069	.066	.063	.022	.021	.020	
2.0	.189	.168	.150	.162	.144	.130	.111	.100	.090	.064	.058	.053	.021	.019	.017	
3.0	.175	.149	.128	.150	.128	.111	.103	.089	.078	.060	.052	.046	.019	.017	.015	
4.0	.164	.134	.111	.141	.116	.096	.097	.081	.068	.056	.047	.040	.018	.015	.013	
5.0	.154	.122	.098	.133	.106	.086	.091	.074	.060	.053	.043	.036	.017	.014	.012	
6.0	.146	.113	.089	.125	.097	.077	.087	.068	.055	.050	.040	.032	.016	.013	.011	
7.0	.139	.105	.081	.119	.091	.070	.082	.064	.050	.048	.037	.030	.015	.012	.010	
8.0	.132	.098	.075	.114	.085	.065	.079	.060	.046	.046	.035	.028	.015	.012	.009	
9.0	.127	.093	.070	.109	.080	.061	.076	.057	.043	.044	.033	.026	.014	.011	.009	
10.0	.122	.088	.066	.105	.077	.057	.073	.054	.041	.043	.032	.024	.014	.010	.008	

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Leo  
 Test Date: 2013-08-10

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE G0-2000B\_V1 SYSTEM V2.0.267  
 Humidity: 65.0%  
 Test Distance: 7.300m [K=1.0000]  
 Remarks:

Uncorrected UGR Table

Test:U:230.5V I:0.2160A P:48.40W PF:0.9710 Lamp Flux:3333.62x1 lm		
NAME: LED Projector 48W(30°)	TYPE:	WEIGHT:
DIM.: 290*220*60mm	SPEC.:4500K	SERIAL No.:2013081005
MFR.: INTEGRATECH	SUR.:180*170mm	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	12.3	13.0	12.5	13.2	13.5	11.3	12.1	11.6	12.3	12.5
3H	12.7	13.4	13.0	13.7	13.9	11.7	12.4	12.0	12.7	13.0
4H	12.9	13.6	13.3	13.9	14.2	12.0	12.6	12.3	12.9	13.2
6H	13.2	13.8	13.6	14.2	14.5	12.2	12.9	12.6	13.2	13.5
8H	13.4	14.0	13.8	14.3	14.7	12.4	13.0	12.8	13.4	13.7
12H	13.6	14.2	14.0	14.6	14.9	12.7	13.3	13.1	13.6	14.0
4H 2H	12.3	12.9	12.6	13.2	13.5	11.4	12.1	11.8	12.4	12.7
3H	12.8	13.4	13.2	13.8	14.1	12.0	12.6	12.3	12.9	13.2
4H	13.2	13.7	13.6	14.1	14.5	12.3	12.9	12.7	13.2	13.6
6H	13.6	14.1	14.1	14.5	15.0	12.8	13.2	13.2	13.6	14.1
8H	13.9	14.4	14.4	14.8	15.2	13.1	13.5	13.5	13.9	14.4
12H	14.3	14.7	14.8	15.1	15.6	13.4	13.8	13.9	14.3	14.8
8H 4H	13.2	13.7	13.7	14.1	14.6	12.4	12.9	12.9	13.3	13.8
6H	13.8	14.2	14.3	14.7	15.2	13.1	13.4	13.6	13.9	14.4
8H	14.3	14.6	14.8	15.1	15.6	13.5	13.8	14.0	14.3	14.8
12H	14.8	15.1	15.4	15.6	16.2	14.1	14.3	14.6	14.9	15.4
12H 4H	13.2	13.6	13.7	14.1	14.6	12.4	12.8	12.9	13.3	13.8
6H	13.9	14.2	14.4	14.7	15.2	13.1	13.5	13.7	13.9	14.5
8H	14.4	14.7	14.9	15.2	15.7	13.6	13.9	14.2	14.4	15.0
Variations with the observer position at spacings:										
S = 1.0H	+ 1.2 / - 0.9					+ 0.8 / - 0.8				
1.5H	+ 2.3 / - 0.8					+ 1.4 / - 0.5				
2.0H	+ 0.7 / - 0.5					+ 0.5 / - 0.5				

CIE Pub.117 Corrected 3334 1m Total Lamp Luminous Flux.(8log(F/F0) = 4.2)

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γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE G0-2000B\_V1 SYSTEM V2.0.267  
 Humidity:65.0%  
 Test Distance:7.300m [K=1.0000]  
 Remarks:

## UTILIZATION FACTORS TABLE

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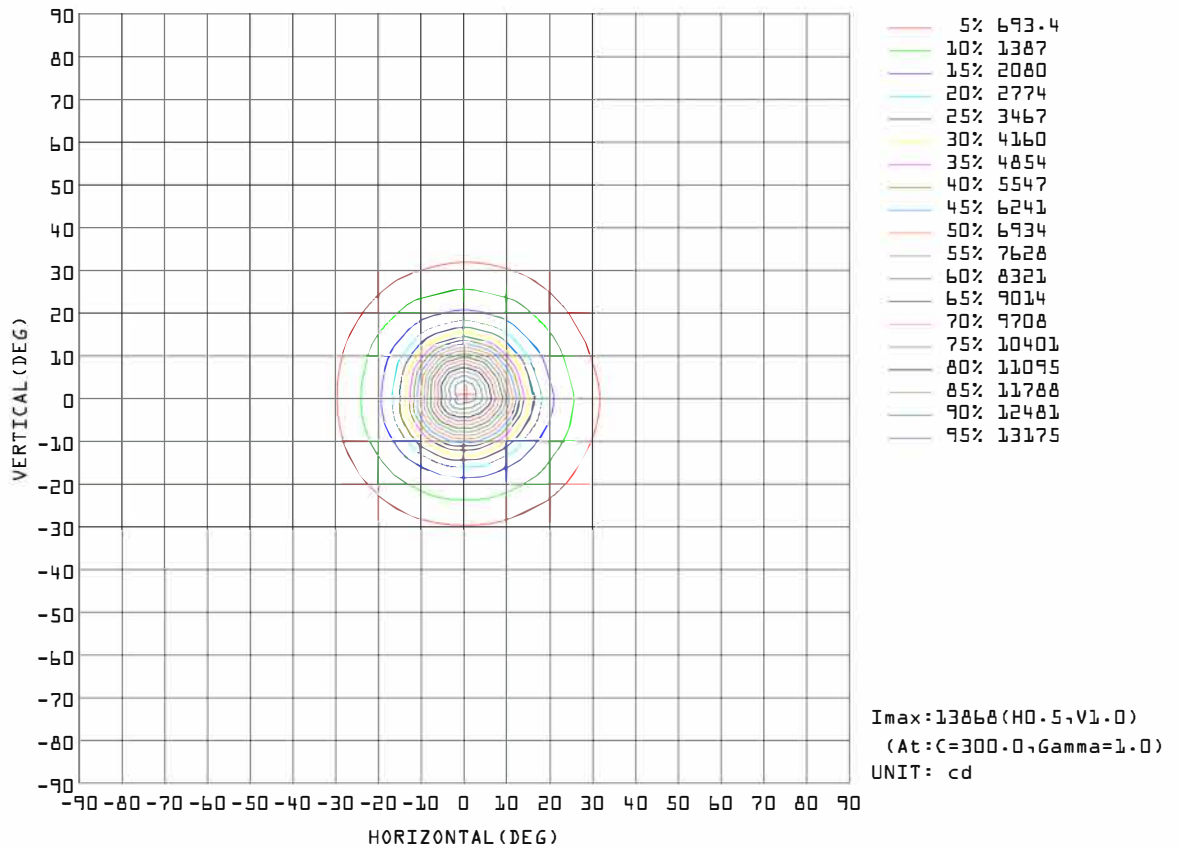
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	84	78	74	84	78	74	83	77	73	70
0.80	92	86	82	91	85	81	89	84	81	77
1.00	96	90	86	95	90	86	93	89	85	81
1.25	100	95	91	99	94	90	97	92	89	84
1.50	103	98	94	102	97	94	99	95	92	87
2.00	106	101	98	104	100	97	101	98	95	89
2.50	108	104	100	106	102	99	102	99	97	90
3.00	110	106	103	107	104	101	103	101	99	91
4.00	112	109	106	109	107	105	105	103	101	93
5.00	113	111	109	111	108	107	106	104	103	94
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHR NOM = 1.25			

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ISOCANDELA DIAGRAM

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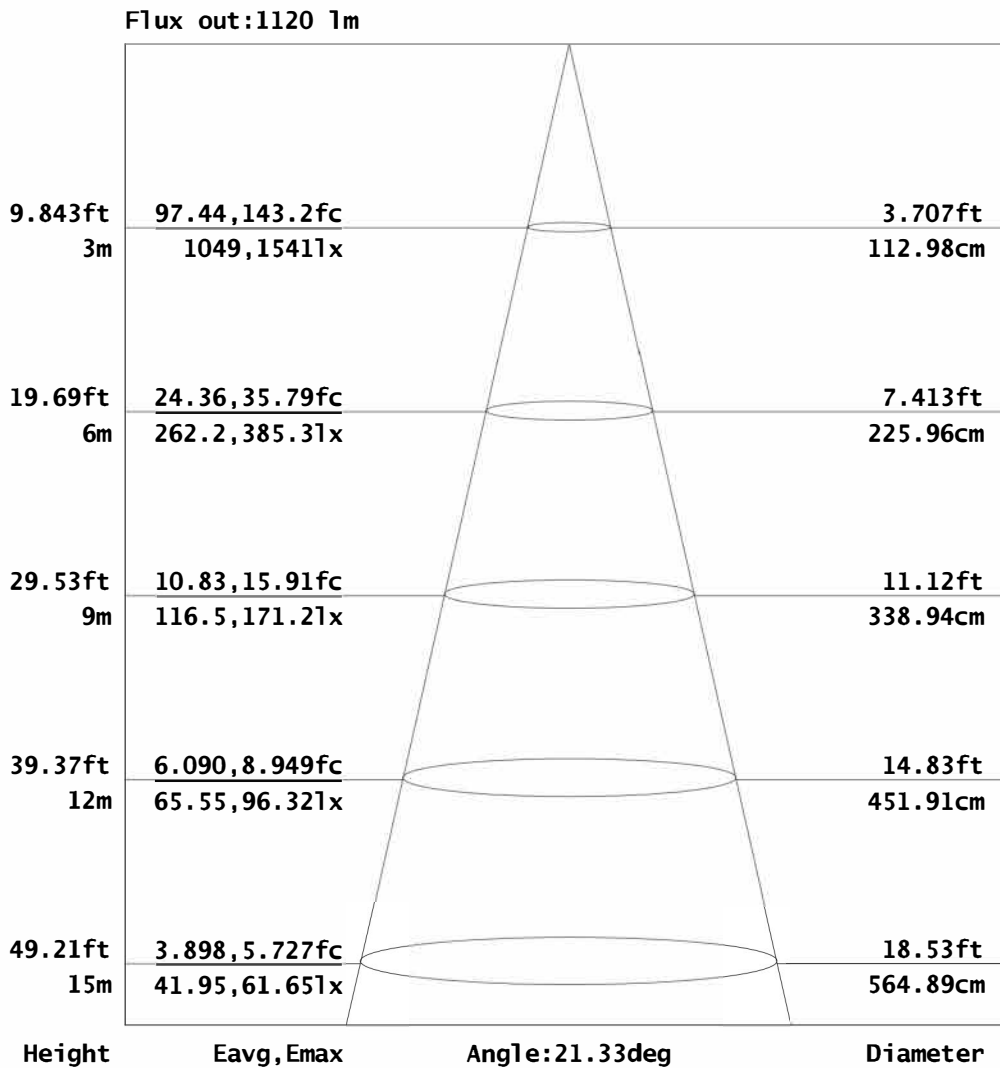
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AAI Figure

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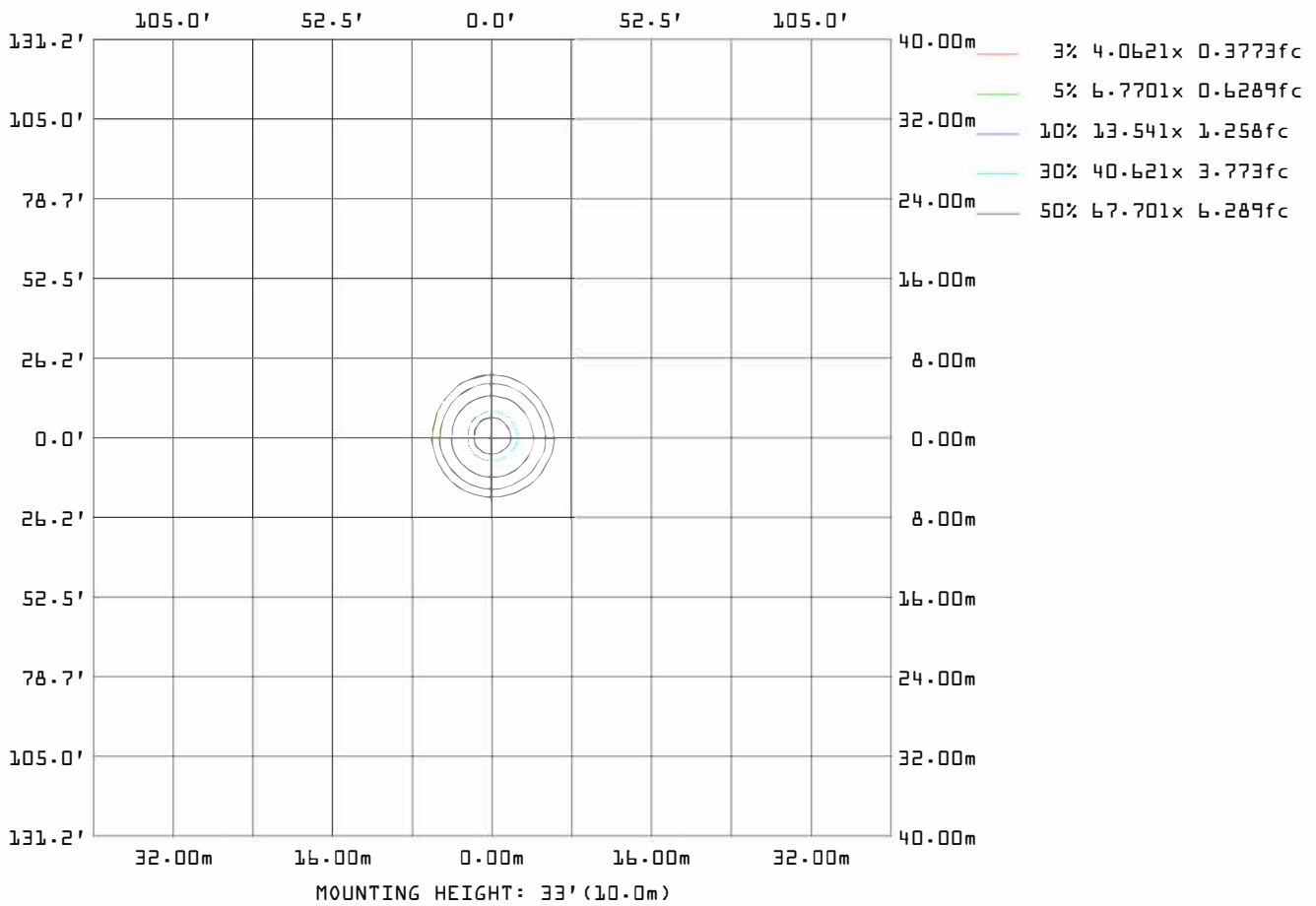
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

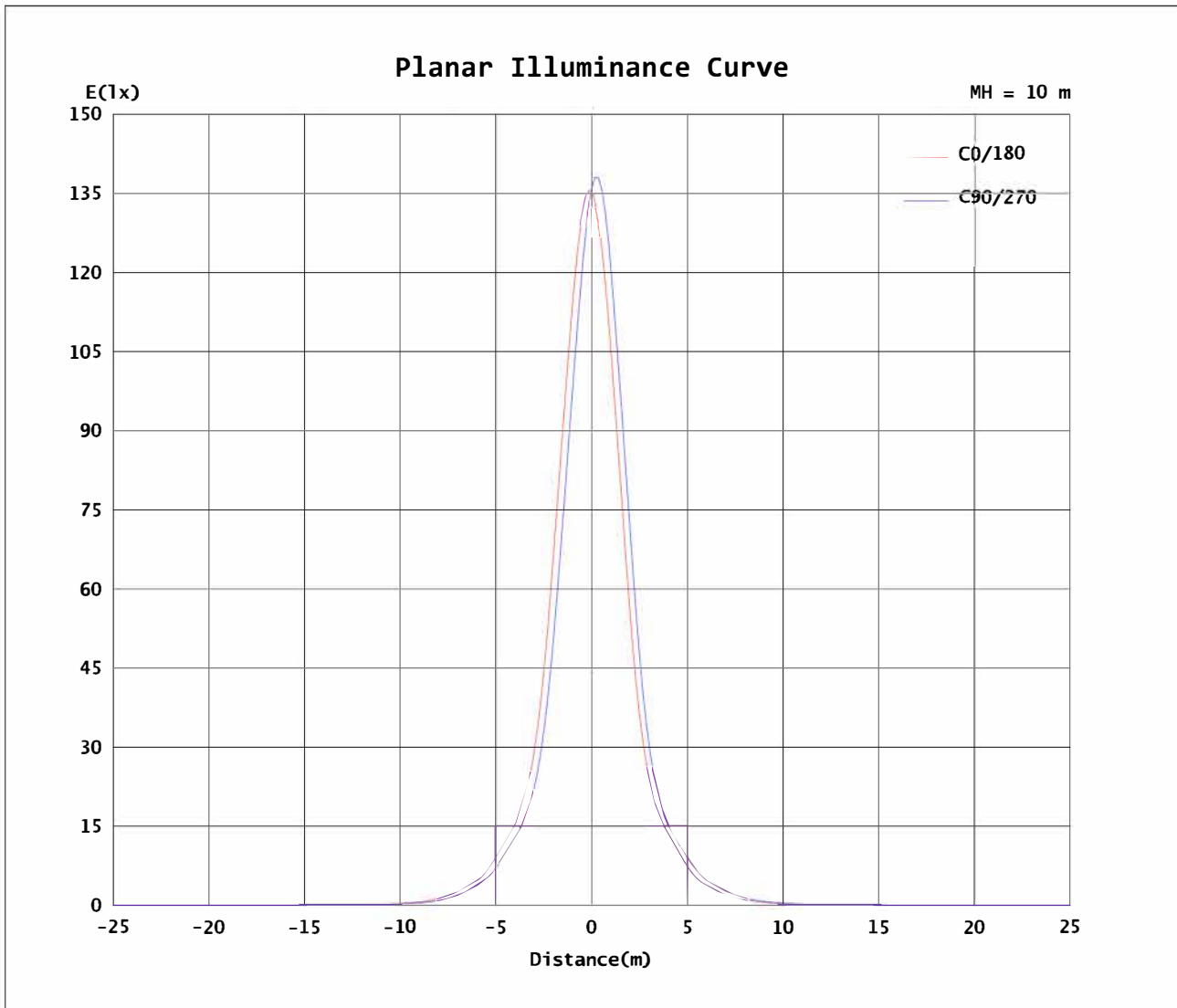
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 Humidity:65.0%  
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 Remarks:

Planar Illuminance Curve



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 Temperature: 25.3DEG  
 Operators: Leo  
 Test Date: 2013-08-10

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE G0-2000B\_V1 SYSTEM V2.0.267  
 Humidity: 65.0%  
 Test Distance: 7.300m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.5V I:0.2160A P:48.40W PF:0.9710 Lamp Flux:3333.62x1 lm		
NAME: LED Projector 48W(30°)	TYPE:	WEIGHT:
DIM.: 290*220*60mm	SPEC.:4500K	SERIAL No.:2013081005
MFR.: INTEGRATECH	SUR.:180*170mm	PROTECTION ANGLE:

Table--1

UNIT: x10cd

C(DEG) γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	1354	1349	1348	1353	1352	1360	1360	1372	1373	1382	1380	1375	1354	1349	1348	1353	1352	1360	1360
5	1207	1180	1126	1112	1072	1074	1053	1075	1076	1119	1130	1153	1123	1138	1193	1212	1255	1254	1273
10	818	790	729	710	665	665	640	659	656	693	701	725	700	719	782	800	848	845	873
15	424	408	370	358	333	330	318	327	324	343	344	354	345	351	388	397	431	422	446
20	225	218	204	200	189	191	184	188	185	194	191	197	196	197	209	211	223	217	224
25	148	144	135	133	125	126	121	124	122	126	125	128	127	127	135	136	144	141	145
30	81.4	79.0	74.6	72.9	70.1	68.4	66.7	67.3	68.7	67.6	68.1	67.3	67.1	68.7	71.8	75.3	80.4	80.1	84.0
35	47.0	46.2	42.7	43.1	39.5	37.9	35.8	36.8	37.5	38.1	37.6	38.2	37.9	38.3	41.9	43.5	49.2	49.1	50.6
40	22.3	21.7	19.7	20.3	17.6	17.7	16.1	16.4	16.4	17.9	17.0	18.4	18.7	18.1	20.8	20.7	24.0	23.4	24.5
45	12.1	11.8	11.4	11.1	10.4	10.1	9.94	10.00	10.1	10.5	10.5	10.7	11.5	11.5	12.0	12.2	12.8	12.7	12.8
50	9.34	9.23	8.98	8.55	8.34	8.24	7.98	7.89	7.84	8.01	8.29	8.37	9.31	9.26	9.73	9.96	9.98	9.95	9.95
55	7.00	6.75	6.42	6.33	6.02	5.86	5.63	5.62	5.73	5.86	6.00	6.15	6.95	7.03	7.17	7.27	7.76	7.88	8.13
60	5.05	4.83	4.58	4.40	4.22	4.21	4.17	4.14	4.04	4.21	4.40	4.55	5.30	5.29	5.43	5.41	5.62	5.57	5.72
65	3.80	3.61	3.36	3.09	3.03	3.05	3.04	3.03	2.88	2.96	3.17	3.27	4.02	3.98	4.14	4.03	4.08	4.26	4.35
70	2.70	2.57	2.40	2.28	2.21	2.27	2.29	2.25	2.17	2.23	2.33	2.40	3.02	3.03	3.12	2.99	3.06	3.19	3.29
75	2.04	1.96	1.82	1.80	1.74	1.74	1.71	1.70	1.72	1.76	1.75	1.82	2.39	2.40	2.42	2.44	2.47	2.54	2.59
80	1.58	1.51	1.45	1.40	1.37	1.36	1.35	1.35	1.35	1.37	1.40	1.42	1.92	1.93	1.96	1.98	2.01	2.00	2.04
85	1.25	1.22	1.19	1.17	1.15	1.14	1.13	1.13	1.13	1.14	1.15	1.16	1.62	1.63	1.65	1.66	1.68	1.68	1.70
90	1.08	1.07	1.05	1.05	1.04	1.04	1.04	1.03	1.03	1.03	1.03	1.02	1.51	1.51	1.51	1.52	1.53	1.52	1.53
95	0.97	0.97	0.96	0.96	0.95	0.95	0.95	0.95	0.94	0.94	0.93	0.93	1.48	1.48	1.48	1.48	1.48	1.48	1.47
100	0.88	0.88	0.87	0.87	0.87	0.87	0.86	0.86	0.86	0.86	0.85	0.84	1.51	1.51	1.50	1.50	1.49	1.49	1.48
105	0.84	0.84	0.84	0.84	0.84	0.83	0.84	0.83	0.83	0.83	0.82	0.82	1.60	1.60	1.58	1.58	1.56	1.56	1.55
110	0.89	0.89	0.90	0.90	0.91	0.90	0.91	0.91	0.91	0.90	0.90	0.89	1.82	1.81	1.78	1.78	1.75	1.75	1.73
115	1.09	1.09	1.11	1.11	1.13	1.13	1.15	1.14	1.15	1.13	1.13	1.13	2.15	2.14	2.10	2.09	2.06	2.06	2.03
120	1.50	1.49	1.53	1.53	1.57	1.56	1.60	1.58	1.59	1.56	1.57	1.57	2.48	2.47	2.43	2.42	2.39	2.39	2.37
125	2.10	2.09	2.14	2.14	2.20	2.19	2.23	2.21	2.23	2.18	2.19	2.18	2.73	2.71	2.68	2.67	2.64	2.64	2.62
130	2.78	2.77	2.83	2.83	2.88	2.87	2.91	2.89	2.91	2.86	2.87	2.86	2.95	2.93	2.90	2.88	2.85	2.84	2.82
135	3.40	3.39	3.43	3.43	3.47	3.46	3.49	3.47	3.49	3.45	3.45	3.45	3.27	3.25	3.20	3.19	3.15	3.14	3.11
140	3.86	3.85	3.88	3.87	3.90	3.89	3.91	3.89	3.90	3.87	3.87	3.86	3.69	3.67	3.63	3.61	3.57	3.56	3.53
145	4.16	4.16	4.17	4.17	4.18	4.18	4.19	4.17	4.17	4.15	4.15	4.14	4.10	4.08	4.04	4.03	3.99	3.99	3.96
150	4.37	4.37	4.38	4.38	4.39	4.38	4.38	4.37	4.37	4.35	4.35	4.33	4.35	4.33	4.31	4.29	4.27	4.26	4.24
155	4.51	4.51	4.51	4.51	4.51	4.51	4.51	4.50	4.49	4.48	4.46	4.45	4.48	4.45	4.43	4.42	4.41	4.39	4.38
160	4.58	4.58	4.57	4.57	4.56	4.56	4.55	4.54	4.53	4.52	4.51	4.49	4.53	4.50	4.48	4.47	4.46	4.45	4.44
165	4.54	4.54	4.52	4.52	4.50	4.50	4.48	4.48	4.46	4.45	4.44	4.43	4.48	4.45	4.44	4.42	4.42	4.41	4.42
170	4.37	4.37	4.34	4.34	4.31	4.30	4.27	4.27	4.24	4.25	4.24	4.24	4.29	4.26	4.26	4.25	4.26	4.25	4.27
175	4.15	4.14	4.11	4.11	4.07	4.06	4.03	4.01	4.00	4.02	4.02	4.02	4.09	4.06	4.06	4.04	4.04	4.02	4.03
180	4.05	4.04	4.03	4.02	4.00	3.97	3.95	3.95	3.96	3.99	4.00	4.00	4.06	4.04	4.03	4.02	4.00	3.97	3.95

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Leo  
 Test Date:2013-08-10

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE G0-2000B\_V1 SYSTEM V2.0.267  
 Humidity:65.0%  
 Test Distance:7.300m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.5V I:0.2160A P:48.40W PF:0.9710 Lamp Flux:3333.62x1 lm		
NAME: LED Projector 48W(30°)	TYPE:	WEIGHT:
DIM.: 290*220*60mm	SPEC.:4500K	SERIAL No.:2013081005
MFR.: INTEGRATECH	SUR.:180*170mm	PROTECTION ANGLE:

Table--2

UNIT: x10cd

C(DEG)\ γ (DEG)	285	300	315	330	345														
0	1372	1373	1382	1380	1375														
5	1254	1257	1228	1222	1198														
10	853	860	820	814	790														
15	430	443	415	416	399														
20	219	225	216	217	212														
25	142	146	139	141	138														
30	81.4	83.1	78.0	77.4	75.6														
35	49.6	50.6	47.1	45.8	44.3														
40	23.4	24.8	22.7	22.3	21.3														
45	12.5	12.9	12.6	12.5	12.3														
50	9.96	10.2	10.2	10.0	9.89														
55	7.91	7.99	7.60	7.55	7.37														
60	5.62	5.74	5.56	5.52	5.51														
65	4.28	4.22	4.06	4.22	4.19														
70	3.20	3.10	3.01	3.16	3.11														
75	2.56	2.49	2.43	2.44	2.45														
80	2.01	2.01	1.98	1.96	1.98														
85	1.68	1.67	1.65	1.64	1.64														
90	1.52	1.52	1.51	1.50	1.49														
95	1.47	1.47	1.46	1.46	1.45														
100	1.48	1.47	1.47	1.47	1.47														
105	1.55	1.54	1.55	1.54	1.54														
110	1.73	1.72	1.73	1.72	1.72														
115	2.04	2.02	2.04	2.03	2.04														
120	2.37	2.36	2.38	2.37	2.37														
125	2.62	2.61	2.62	2.62	2.62														
130	2.82	2.81	2.83	2.82	2.83														
135	3.11	3.10	3.12	3.12	3.12														
140	3.54	3.52	3.55	3.53	3.53														
145	3.96	3.95	3.96	3.95	3.94														
150	4.24	4.23	4.23	4.23	4.22														
155	4.38	4.37	4.37	4.37	4.37														
160	4.44	4.44	4.44	4.44	4.45														
165	4.42	4.43	4.43	4.43	4.43														
170	4.27	4.29	4.28	4.28	4.27														
175	4.04	4.07	4.08	4.08	4.07														
180	3.94	3.96	3.98	4.00	3.99														

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Leo  
 Test Date:2013-08-10

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE G0-2000B\_V1 SYSTEM V2.0.267  
 Humidity:65.0%  
 Test Distance:7.300m [K=1.0000]  
 Remarks: