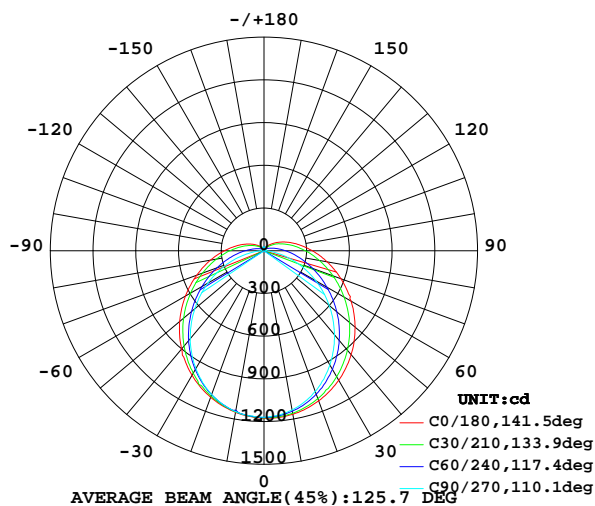


LUMINAIRE PHOTOMETRIC TEST REPORT

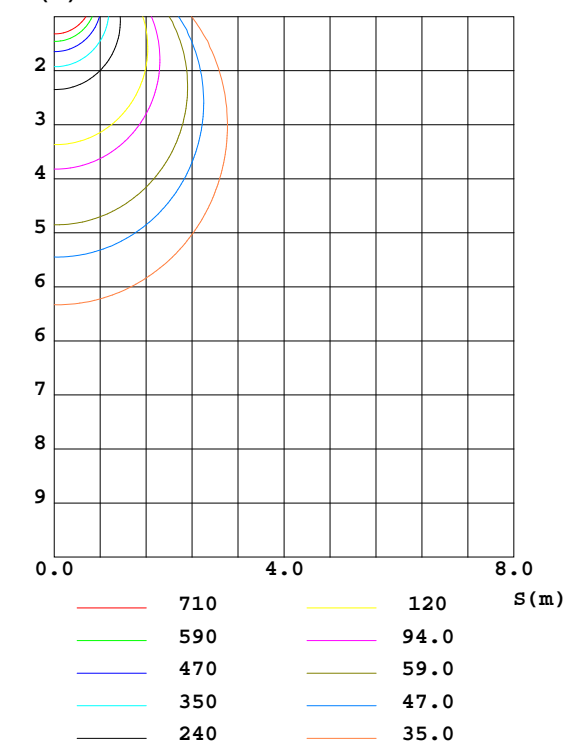
NAME: LED Tri-proor Light	TYPE:1.2M 36W	WEIGHT:
DIM.: 1200	SPEC.:SL-P69F4-36-W	SERIAL No.:20180207007
MFR.: Shinelong Technology Corp., Ltd.	SUR.:1.135*0.07	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 119.65 lm/W			
MODEL	2835	Imax(cd)	1177	S/MH(C0/180)	1.33
NOMINAL POWER(W)	35.2	LOR(%)	100.0	S/MH(C90/270)	1.19
RATED VOLTAGE(V)	236	TOTAL FLUX(lm)	4211.6	η UP,DN(C0-180)	5.6,44.1
NOMINAL FLUX(lm)	4211.6	CIE CLASS	SEMI-D.	η UP,DN(C180-360)	5.4,44.9
LAMPS INSIDE	1	η up(%)	11.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	236.3	η down(%)	89.0	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25DEG
Operators:090026
Test Date:2018-02-07

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.276
Humidity:65.0%
Test Distance:8.950m [K=1.0000]
Remarks: 4000K RA80

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	1166	1152	1135	1132	1153	1143	1147	1155	0- 10	110.6	110.6	2.63,2.63
20	1122	1089	1052	1056	1095	1081	1074	1100	10- 20	316.1	426.7	10.1,10.1
30	1050	992.0	926.3	946.9	1010	979.4	957.0	1008	20- 30	477.9	904.6	21.5,21.5
40	951.8	866.3	770.1	810.2	900.8	848.2	804.8	886.5	30- 40	576.6	1481	35.2,35.2
50	836.1	726.3	598.1	661.5	773.0	701.0	635.0	747.3	40- 50	604.7	2086	49.5,49.5
60	707.0	580.1	419.5	510.6	637.7	549.1	455.1	599.2	50- 60	567.1	2653	63,63
70	575.4	440.4	242.4	371.1	503.0	405.8	275.9	455.4	60- 70	479.5	3133	74.4,74.4
80	449.8	318.6	87.59	253.5	381.4	282.1	111.6	327.9	70- 80	364.9	3497	83,83
90	339.6	221.7	14.56	165.3	279.3	187.2	17.58	226.8	80- 90	252.6	3750	89,89
100	249.0	149.8	15.36	105.9	198.7	120.5	16.30	150.7	90-100	170.3	3920	93.1,93.1
110	176.9	98.78	16.64	68.22	137.5	76.94	17.19	95.89	100-110	111.4	4032	95.7,95.7
120	121.3	65.89	18.12	45.21	92.35	50.14	18.35	63.38	110-120	70.72	4102	97.4,97.4
130	80.13	41.68	19.73	32.03	60.09	34.35	19.66	41.59	120-130	43.59	4146	98.4,98.4
140	51.38	30.57	21.53	25.56	38.93	26.47	21.23	30.56	130-140	26.72	4173	99.1,99.1
150	33.56	25.97	23.49	23.88	27.79	24.05	23.08	26.09	140-150	17.27	4190	99.5,99.5
160	25.88	25.34	25.57	25.08	25.21	24.90	25.28	25.60	150-160	11.69	4202	99.8,99.8
170	25.79	26.52	27.27	26.68	26.43	26.53	27.20	26.85	160-170	7.330	4209	99.9,99.9
180	27.10	27.58	28.28	27.86	27.19	27.58	28.23	27.86	170-180	2.587	4212	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

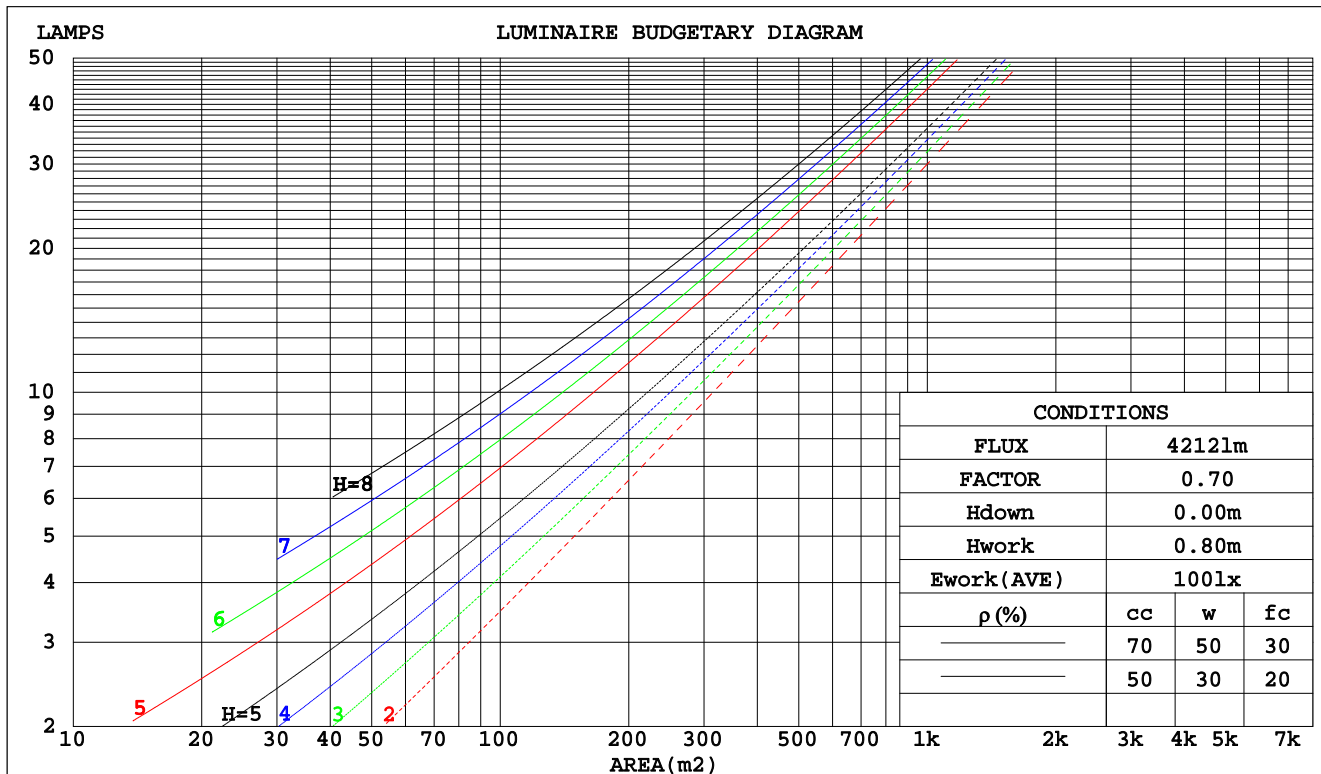
C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:090026
 Test Date:2018-02-07

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.276
 Humidity:65.0%
 Test Distance:8.950m [K=1.0000]
 Remarks: 4000K RA80

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: LED Tri-proor Light	TYPE:1.2M 36W	WEIGHT:
DIM.: 1200	SPEC.:SL-P69F4-36-W	SERIAL No.:20180207007
MFR.: Shinelong Technology Corp., Ltd.	SUR.:1.135*0.07	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	Coefficients of Utilization(CU)															
0.0	1.16	1.16	1.16	1.12	1.12	1.12	1.05	1.05	1.05	.98	.98	.98	.92	.92	.92	.89
1.0	.99	.93	.89	.95	.91	.86	.89	.85	.82	.83	.80	.77	.78	.75	.73	.70
2.0	.85	.77	.71	.82	.75	.69	.77	.71	.66	.72	.67	.63	.67	.63	.60	.57
3.0	.74	.65	.58	.72	.64	.57	.67	.60	.55	.63	.57	.52	.59	.54	.50	.47
4.0	.65	.56	.49	.63	.55	.48	.59	.52	.46	.56	.49	.44	.52	.47	.43	.40
5.0	.58	.49	.42	.56	.48	.41	.53	.45	.40	.50	.43	.38	.47	.41	.37	.34
6.0	.52	.43	.36	.51	.42	.36	.48	.40	.35	.45	.38	.33	.42	.37	.32	.30
7.0	.47	.38	.32	.46	.37	.31	.43	.36	.31	.41	.34	.30	.39	.33	.29	.26
8.0	.43	.34	.28	.42	.34	.28	.40	.32	.27	.38	.31	.26	.36	.30	.26	.23
9.0	.39	.31	.25	.38	.31	.25	.36	.29	.24	.35	.28	.24	.33	.27	.23	.21
10.0	.36	.28	.23	.35	.28	.23	.34	.27	.22	.32	.26	.21	.30	.25	.21	.19



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators: 090026
 Test Date: 2018-02-07

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.276
 Humidity: 65.0%
 Test Distance: 8.950m [K=1.0000]
 Remarks: 4000K RA80

WEC AND CCEC

NAME: LED Tri-proor Light	TYPE:1.2M 36W	WEIGHT:
DIM.: 1200	SPEC.:SL-P69F4-36-W	SERIAL No.:20180207007
MFR.: Shinelong Technology Corp., Ltd.	SUR.:1.135*0.07	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	.362	.206	.065	.352	.201	.064	.332	.190	.061	.314	.181	.058	.297	.172	.056		
2.0	.320	.175	.054	.310	.171	.053	.293	.163	.051	.276	.155	.049	.261	.148	.047		
3.0	.287	.153	.046	.279	.149	.045	.263	.142	.043	.248	.136	.042	.234	.130	.040		
4.0	.260	.135	.040	.253	.132	.039	.238	.126	.038	.225	.121	.036	.213	.116	.035		
5.0	.238	.121	.035	.231	.119	.035	.218	.113	.033	.206	.109	.032	.195	.104	.031		
6.0	.219	.110	.031	.212	.107	.031	.201	.103	.030	.190	.099	.029	.180	.095	.028		
7.0	.202	.100	.028	.197	.098	.028	.186	.094	.027	.176	.090	.026	.167	.087	.025		
8.0	.188	.092	.026	.183	.090	.025	.173	.087	.025	.164	.083	.024	.155	.080	.023		
9.0	.176	.085	.024	.171	.083	.023	.162	.080	.023	.154	.077	.022	.146	.074	.021		
10.0	.165	.079	.022	.160	.077	.022	.152	.075	.021	.144	.072	.020	.137	.069	.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	.274	.274	.274	.234	.234	.234	.160	.160	.160	.092	.092	.092	.029	.029	.029	
1.0	.268	.240	.214	.229	.206	.185	.157	.142	.128	.090	.082	.074	.029	.026	.024	
2.0	.261	.217	.179	.223	.186	.155	.153	.129	.108	.088	.075	.063	.028	.024	.021	
3.0	.253	.200	.157	.217	.172	.136	.149	.120	.096	.086	.070	.056	.028	.023	.018	
4.0	.245	.187	.142	.210	.161	.124	.145	.112	.087	.084	.066	.051	.027	.021	.017	
5.0	.237	.177	.132	.204	.153	.115	.140	.107	.081	.081	.063	.048	.026	.020	.016	
6.0	.230	.169	.125	.198	.146	.108	.136	.102	.077	.079	.060	.046	.026	.020	.015	
7.0	.223	.162	.119	.192	.140	.104	.133	.098	.074	.077	.058	.044	.025	.019	.014	
8.0	.216	.156	.115	.186	.136	.100	.129	.095	.071	.075	.056	.042	.024	.018	.014	
9.0	.210	.151	.112	.181	.131	.097	.125	.092	.069	.073	.055	.041	.024	.018	.014	
10.0	.204	.147	.109	.176	.128	.095	.122	.090	.068	.071	.053	.040	.023	.017	.013	

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:090026
 Test Date:2018-02-07

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.276
 Humidity:65.0%
 Test Distance:8.950m [K=1.0000]
 Remarks: 4000K RA80

Uncorrected UGR Table

NAME: LED Tri-proor Light					TYPE:1.2M 36W			WEIGHT:			
DIM.: 1200					SPEC.:SL-P69F4-36-W			SERIAL No.:20180207007			
MFR.: Shinelong Technology Corp., Ltd.					SUR.:1.135*0.07			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	22.4	23.8	22.8	24.2	24.6	20.4	21.8	20.8	22.2	22.6	
	3H	24.7	26.1	25.2	26.5	27.0	21.7	23.1	22.2	23.5	23.9
	4H	26.0	27.3	26.5	27.7	28.2	22.3	23.5	22.7	24.0	24.4
	6H	27.4	28.6	27.9	29.1	29.6	22.6	23.8	23.1	24.3	24.8
	8H	28.2	29.3	28.7	29.8	30.3	22.7	23.9	23.2	24.3	24.8
	12H	29.1	30.2	29.6	30.7	31.2	22.7	23.8	23.3	24.3	24.9
4H	2H	22.9	24.1	23.4	24.6	25.1	21.4	22.6	21.9	23.1	23.6
	3H	25.5	26.6	26.0	27.1	27.6	23.0	24.1	23.5	24.6	25.2
	4H	27.0	28.0	27.5	28.5	29.1	23.8	24.8	24.3	25.3	25.8
	6H	28.6	29.5	29.2	30.1	30.7	24.3	25.2	24.9	25.8	26.4
	8H	29.5	30.4	30.1	30.9	31.5	24.5	25.3	25.1	25.9	26.5
	12H	30.5	31.3	31.1	31.9	32.5	24.6	25.4	25.2	26.0	26.6
8H	4H	27.3	28.2	27.9	28.7	29.3	24.7	25.5	25.2	26.1	26.7
	6H	29.2	29.9	29.8	30.5	31.2	25.6	26.3	26.2	26.9	27.6
	8H	30.3	31.0	31.0	31.6	32.3	26.0	26.6	26.6	27.2	27.9
	12H	31.6	32.2	32.3	32.8	33.5	26.3	26.9	27.0	27.5	28.2
12H	4H	27.3	28.1	27.9	28.7	29.3	25.0	25.7	25.5	26.3	27.0
	6H	29.3	30.0	30.0	30.6	31.3	26.1	26.7	26.7	27.3	28.0
	8H	30.6	31.1	31.2	31.7	32.4	26.7	27.2	27.3	27.8	28.5
Variations with the observer position at spacings:											
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.2					
1.5H	+ 0.2 / - 0.2					+ 0.2 / - 0.3					
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.4					

CIE Pub.117 Corrected 4212 lm Total Lamp Luminous Flux.(8log(F/F0) = 5.0)

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:090026
 Test Date:2018-02-07

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.276
 Humidity:65.0%
 Test Distance:8.950m [K=1.0000]
 Remarks: 4000K RA80

UTILIZATION FACTORS TABLE

NAME: LED Tri-proor Light	TYPE:1.2M 36W	WEIGHT:
DIM.: 1200	SPEC.:SL-P69F4-36-W	SERIAL No.:20180207007
MFR.: Shinelong Technology Corp., Ltd.	SUR.:1.135*0.07	PROTECTION ANGLE:

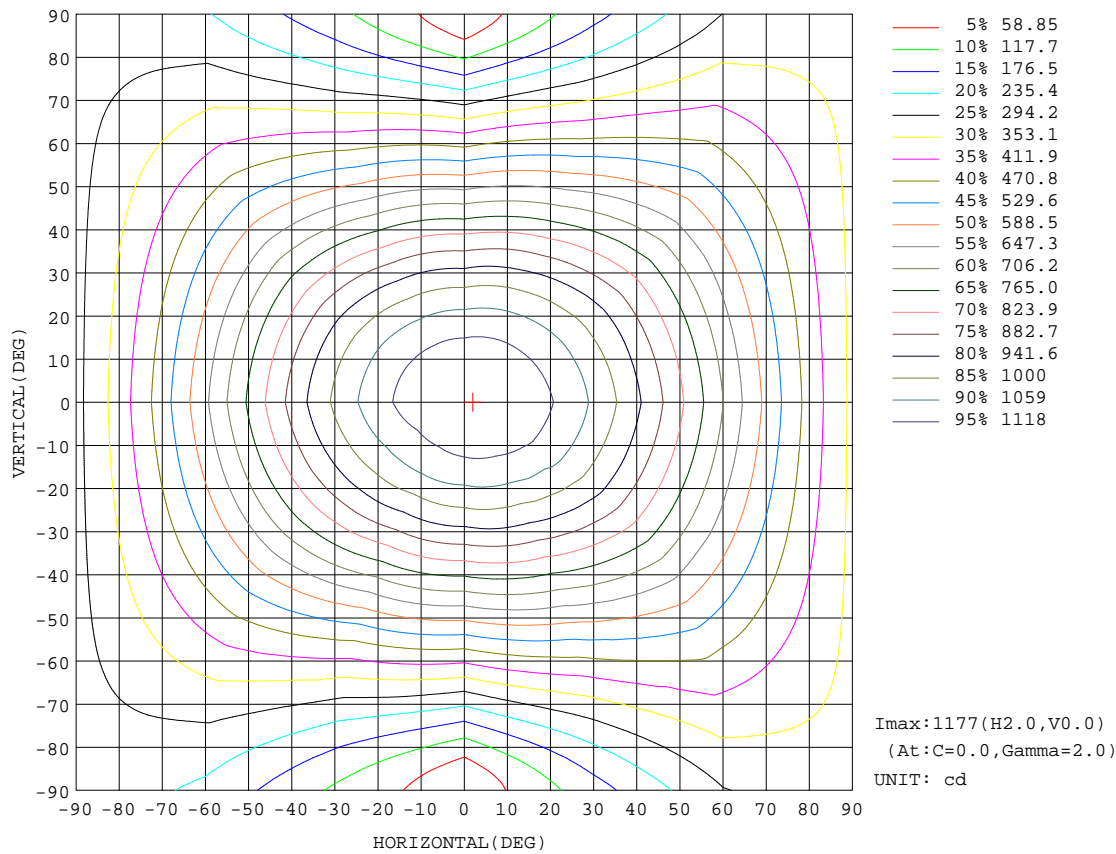
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	52	40	33	51	39	32	49	39	32	25
0.80	61	49	41	60	48	41	57	47	40	33
1.00	69	57	49	67	56	48	64	57	47	39
1.25	76	64	56	74	63	55	70	61	54	45
1.50	81	70	62	79	68	61	75	66	59	50
2.00	88	78	70	85	76	69	81	73	67	57
2.50	92	83	76	89	81	74	84	77	71	60
3.00	96	87	80	93	85	79	87	81	76	64
4.00	100	93	87	97	90	85	91	86	81	69
5.00	103	97	91	100	94	89	93	89	85	72
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:090026
 Test Date:2018-02-07

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 γ Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.276
 Humidity:65.0%
 Test Distance:8.950m [K=1.0000]
 Remarks: 4000K RA80

ISOCANDELA DIAGRAM

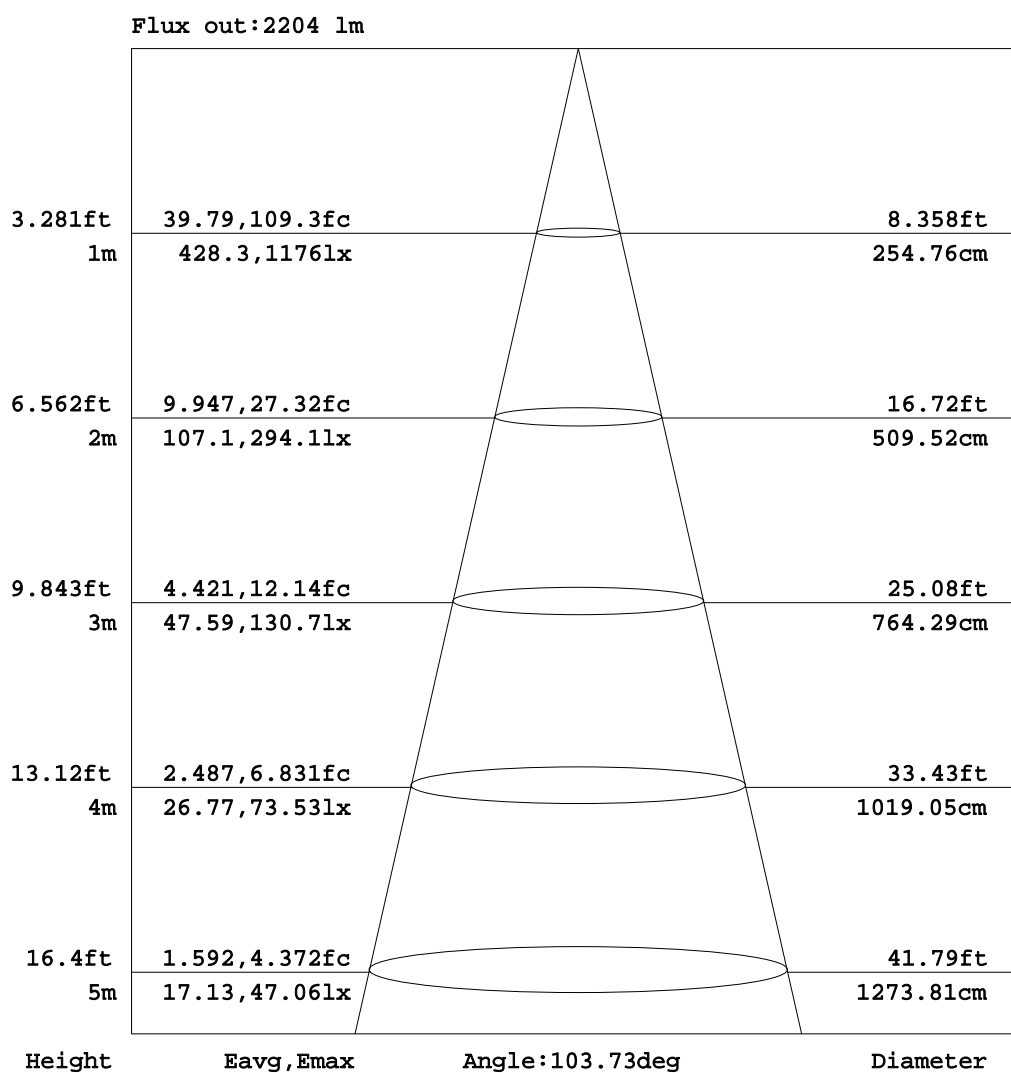
NAME: LED Tri-proor Light	TYPE:1.2M 36W	WEIGHT:
DIM.: 1200	SPEC.:SL-P69F4-36-W	SERIAL No.:20180207007
MFR.: Shinelong Technology Corp., Ltd.	SUR.:1.135*0.07	PROTECTION ANGLE:



C Range: 0 - 360DEG	γ Range: 0 - 180DEG
C Interval: 30.0DEG	γ Interval: 1.0DEG
Test Speed: HIGH	Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.276
Temperature:25DEG	Humidity:65.0%
Operators:090026	Test Distance:8.950m [K=1.0000]
Test Date:2018-02-07	Remarks: 4000K RA80

AAI Figure

NAME: LED Tri-proor Light	TYPE:1.2M 36W	WEIGHT:
DIM.: 1200	SPEC.:SL-P69F4-36-W	SERIAL No.:20180207007
MFR.: Shinelong Technology Corp., Ltd.	SUR.:1.135*0.07	PROTECTION ANGLE:



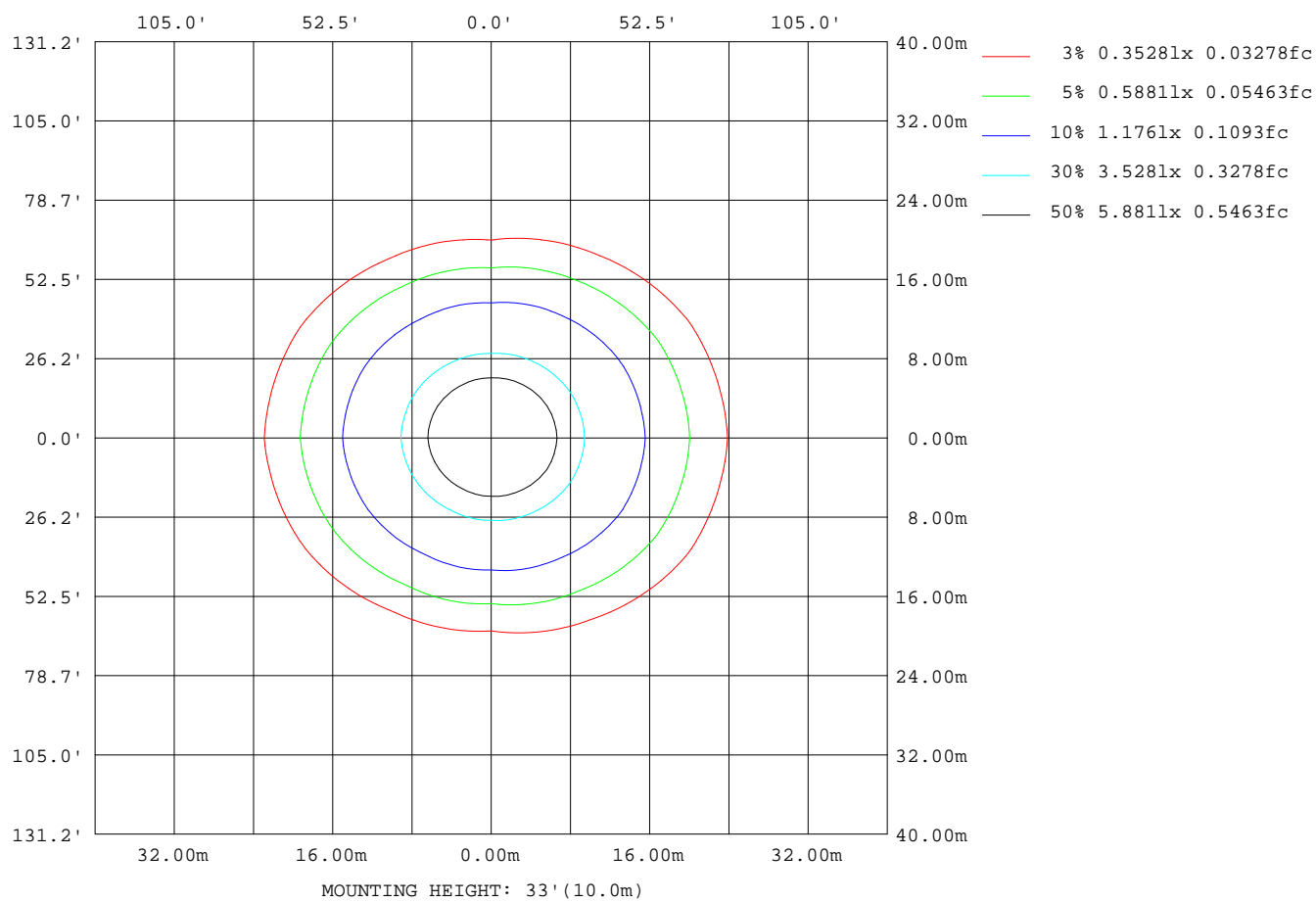
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25DEG
Operators: 090026
Test Date: 2018-02-07

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.276
Humidity: 65.0%
Test Distance: 8.950m [K=1.0000]
Remarks: 4000K RA80

ISOLUX DIAGRAM

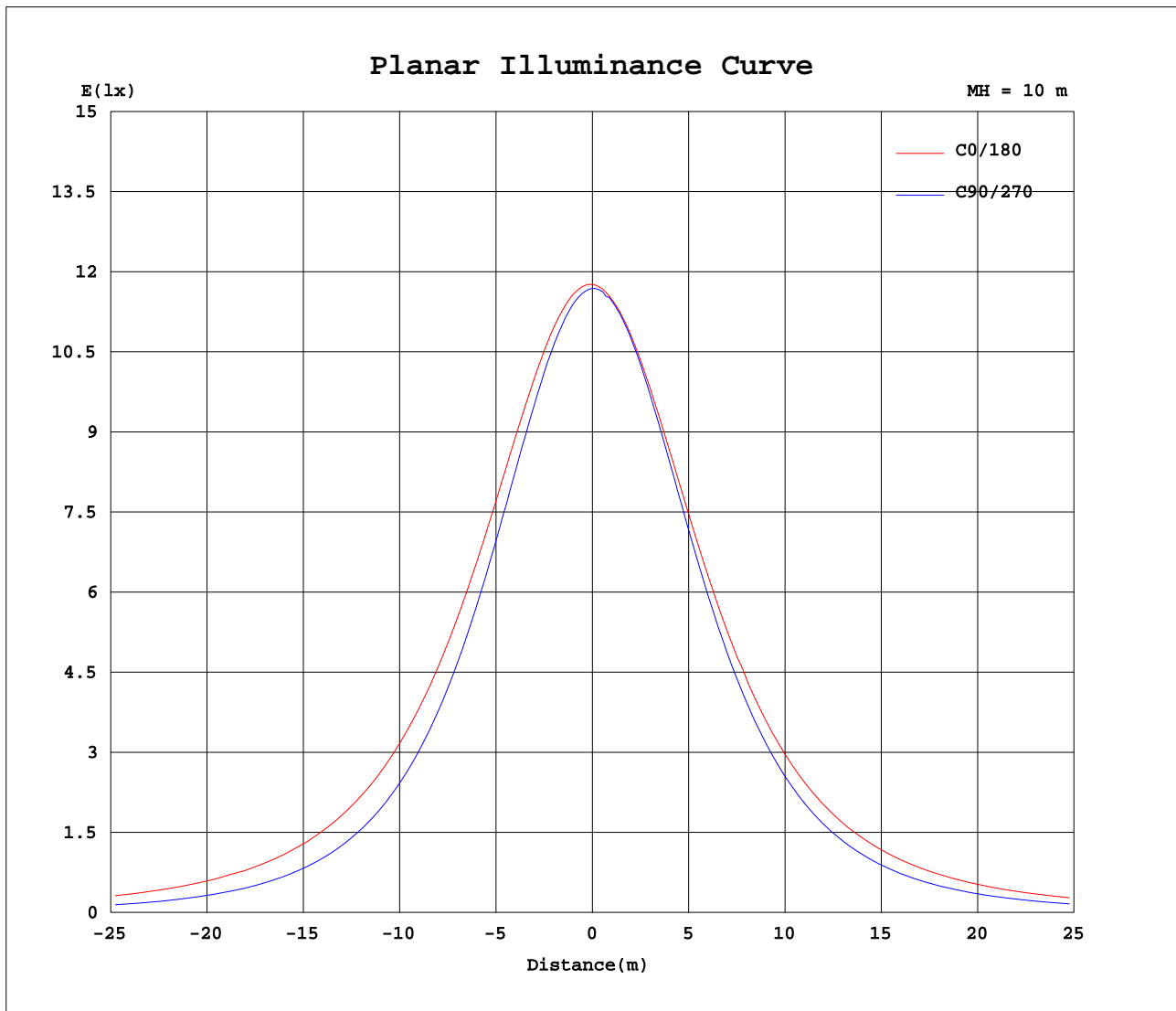
NAME: LED Tri-proof Light	TYPE:1.2M 36W	WEIGHT:
DIM.: 1200	SPEC.:SL-P69F4-36-W	SERIAL No.:20180207007
MFR.: Shinelong Technology Corp., Ltd.	SUR.:1.135*0.07	PROTECTION ANGLE:



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25DEG
Operators:090026
Test Date:2018-02-07

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.276
Humidity:65.0%
Test Distance:8.950m [K=1.0000]
Remarks: 4000K RA80

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25DEG
Operators: 090026
Test Date: 2018-02-07

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.276
Humidity: 65.0%
Test Distance: 8.950m [K=1.0000]
Remarks: 4000K RA80

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: LED Tri-proor Light	TYPE:1.2M 36W	WEIGHT:
DIM.: 1200	SPEC.:SL-P69F4-36-W	SERIAL No.:20180207007
MFR.: Shinelong Technology Corp., Ltd.	SUR.:1.135*0.07	PROTECTION ANGLE:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330							
0	1176	1173	1170	1169	1166	1164	1176	1173	1170	1169	1166	1164							
5	1175	1171	1164	1159	1155	1153	1168	1166	1165	1165	1166	1165							
10	1166	1158	1145	1135	1131	1133	1153	1149	1137	1147	1154	1155							
15	1148	1136	1114	1099	1094	1103	1128	1122	1117	1117	1129	1136							
20	1122	1106	1072	1052	1047	1065	1095	1087	1076	1074	1092	1108							
25	1090	1068	1022	995	991	1020	1057	1044	1025	1021	1045	1072							
30	1050	1022	962	926	927	967	1010	994	965	957	989	1028							
35	1004	969	895	851	856	907	958	936	898	884	924	976							
40	952	911	821	770	778	842	901	873	823	805	854	919							
45	896	849	747	685	700	774	839	806	745	721	779	859							
50	836	784	669	598	618	705	773	738	665	635	700	795							
55	772	717	589	509	536	635	706	666	583	545	620	727							
60	707	649	511	419	457	564	638	595	503	455	540	658							
65	640	581	436	331	381	497	569	526	425	365	462	591							
70	575	516	365	242	311	432	503	460	352	276	387	524							
75	511	454	300	160	247	372	440	397	285	190	318	461							
80	450	396	242	87.6	191	316	381	339	226	112	255	401							
85	393	341	192	33.3	145	266	328	286	175	48.9	202	345							
90	340	291	152	14.6	109	222	279	240	134	17.6	158	295							
95	292	248	119	15.0	80.8	184	236	200	101	16.0	122	251							
100	249	209	90.9	15.4	60.4	152	199	165	75.9	16.3	91.1	210							
105	211	173	70.7	16.0	45.9	124	166	135	57.4	16.7	70.4	168							
110	177	142	55.1	16.6	36.0	100	137	110	44.2	17.2	54.5	137							
115	147	117	43.1	17.4	29.4	81.1	113	88.6	35.1	17.7	42.7	115							
120	121	96.3	35.5	18.1	25.2	65.3	92.4	71.2	29.0	18.3	35.1	91.7							
125	99.1	73.0	30.3	18.9	22.7	52.5	74.7	56.7	25.1	19.0	30.0	72.4							
130	80.1	56.4	27.0	19.7	21.6	42.5	60.1	45.9	22.8	19.7	26.9	56.3							
135	64.4	44.9	25.1	20.6	21.3	34.9	48.2	37.5	21.7	20.4	24.9	45.3							
140	51.4	37.0	24.1	21.5	21.7	29.4	38.9	31.2	21.7	21.2	24.0	37.2							
145	41.1	31.4	23.9	22.5	22.5	26.0	32.2	27.2	22.2	22.1	23.8	31.5							
150	33.6	27.7	24.2	23.5	23.5	24.3	27.8	25.1	23.0	23.1	24.2	28.0							
155	28.5	25.8	24.8	24.5	24.5	24.1	25.6	24.5	24.0	24.2	24.9	26.1							
160	25.9	25.1	25.6	25.6	25.6	24.6	25.2	24.8	25.0	25.3	25.7	25.5							
165	25.3	25.3	26.3	26.5	26.5	25.3	25.7	25.5	26.0	26.3	26.6	25.7							
170	25.8	26.0	27.1	27.3	27.3	26.0	26.4	26.1	26.9	27.2	27.4	26.3							
175	26.5	26.7	27.7	27.9	28.1	26.8	26.9	26.7	27.7	27.9	28.1	26.9							
180	27.1	27.1	28.0	28.3	28.5	27.3	27.2	27.1	28.1	28.2	28.5	27.2							

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25DEG
Operators:090026
Test Date:2018-02-07

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.276
Humidity:65.0%
Test Distance:8.950m [K=1.0000]
Remarks: 4000K RA80