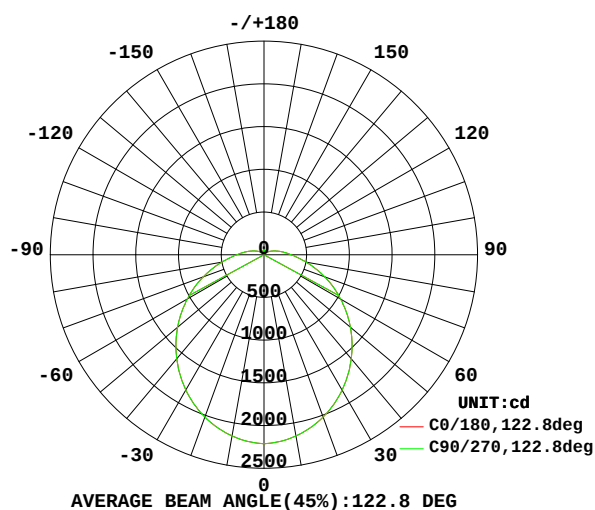


LUMINAIRE PHOTOMETRIC TEST REPORT

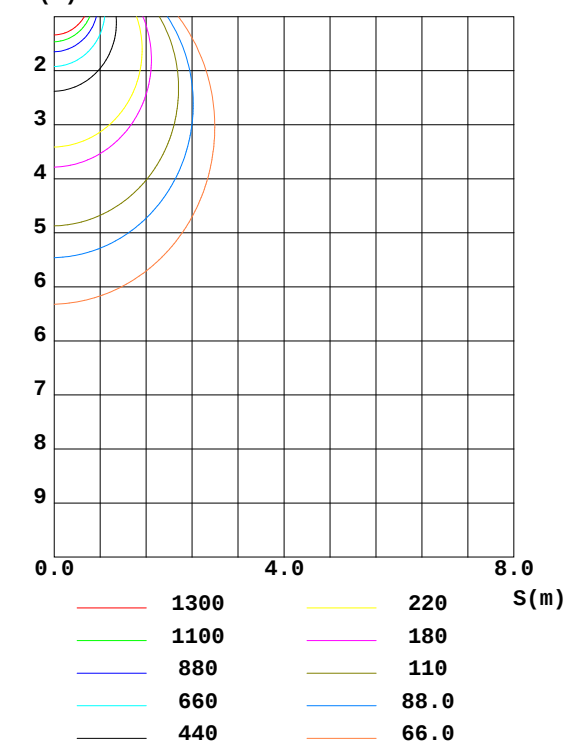
Test:U:220.5V I:0.2670A P:57.70W PF:0.9800 Lamp Flux:7660.15x1 lm		
NAME: LED Tri-proof light	TYPE:1.5M 60W	WEIGHT:
DIM.: 1500	SPEC.:SL-P65F5-60-C	SERIAL No.:20200107012
MFR.: Shinelong Technology Corp., Ltd.	SUR.:1.5*0.1	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 132.76 lm/W			
MODEL	2835 15*30	I _{max} (cd)	2212	S/MH(C0/180)	1.24
NOMINAL POWER(W)	57.7	LOR(%)	100.0	S/MH(C90/270)	1.24
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	7660.2	η UP, DN(C0-180)	4.8, 45.2
NOMINAL FLUX(lm)	7660.15	CIE CLASS	DIRECT	η UP, DN(C180-360)	4.8, 45.2
LAMPS INSIDE	1	η up(%)	9.6	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	220.2	η down(%)	90.4	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:090003
 Test Date:2020-01-07

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.276
 Humidity:65.0%
 Test Distance:8.950m [K=1.0000]
 Remarks: 6000K RA80 15*30 2835

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	2154	2154	2154	2154	2154	2154	2154	2154	0- 10	208.1	208.1	2.72, 2.72
20	2022	2022	2022	2022	2022	2022	2022	2022	10- 20	591.4	799.5	10.4, 10.4
30	1829	1829	1829	1829	1829	1829	1829	1829	20- 30	890.6	1690	22.1, 22.1
40	1588	1588	1588	1588	1588	1588	1588	1588	30- 40	1072	2763	36.1, 36.1
50	1321	1321	1321	1321	1321	1321	1321	1321	40- 50	1125	3887	50.7, 50.7
60	1035	1035	1035	1035	1035	1035	1035	1035	50- 60	1055	4942	64.5, 64.5
70	756.2	756.2	756.2	756.2	756.2	756.2	756.2	756.2	60- 70	886.6	5829	76.1, 76.1
80	501.2	501.2	501.2	501.2	501.2	501.2	501.2	501.2	70- 80	660.0	6489	84.7, 84.7
90	321.4	321.4	321.4	321.4	321.4	321.4	321.4	321.4	80- 90	438.9	6928	90.4, 90.4
100	209.9	209.9	209.9	209.9	209.9	209.9	209.9	209.9	90-100	286.4	7214	94.2, 94.2
110	132.9	132.9	132.9	132.9	132.9	132.9	132.9	132.9	100-110	179.1	7393	96.5, 96.5
120	82.54	82.54	82.54	82.54	82.54	82.54	82.54	82.54	110-120	105.5	7499	97.9, 97.9
130	51.31	51.31	51.31	51.31	51.31	51.31	51.31	51.31	120-130	58.97	7558	98.7, 98.7
140	43.95	43.95	43.95	43.95	43.95	43.95	43.95	43.95	130-140	35.25	7593	99.1, 99.1
150	44.69	44.69	44.69	44.69	44.69	44.69	44.69	44.69	140-150	27.81	7621	99.5, 99.5
160	46.20	46.20	46.20	46.20	46.20	46.20	46.20	46.20	150-160	20.95	7642	99.8, 99.8
170	49.37	49.37	49.37	49.37	49.37	49.37	49.37	49.37	160-170	13.45	7655	99.9, 99.9
180	51.69	51.69	51.69	51.69	51.69	51.69	51.69	51.69	170-180	4.809	7660	100, 100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

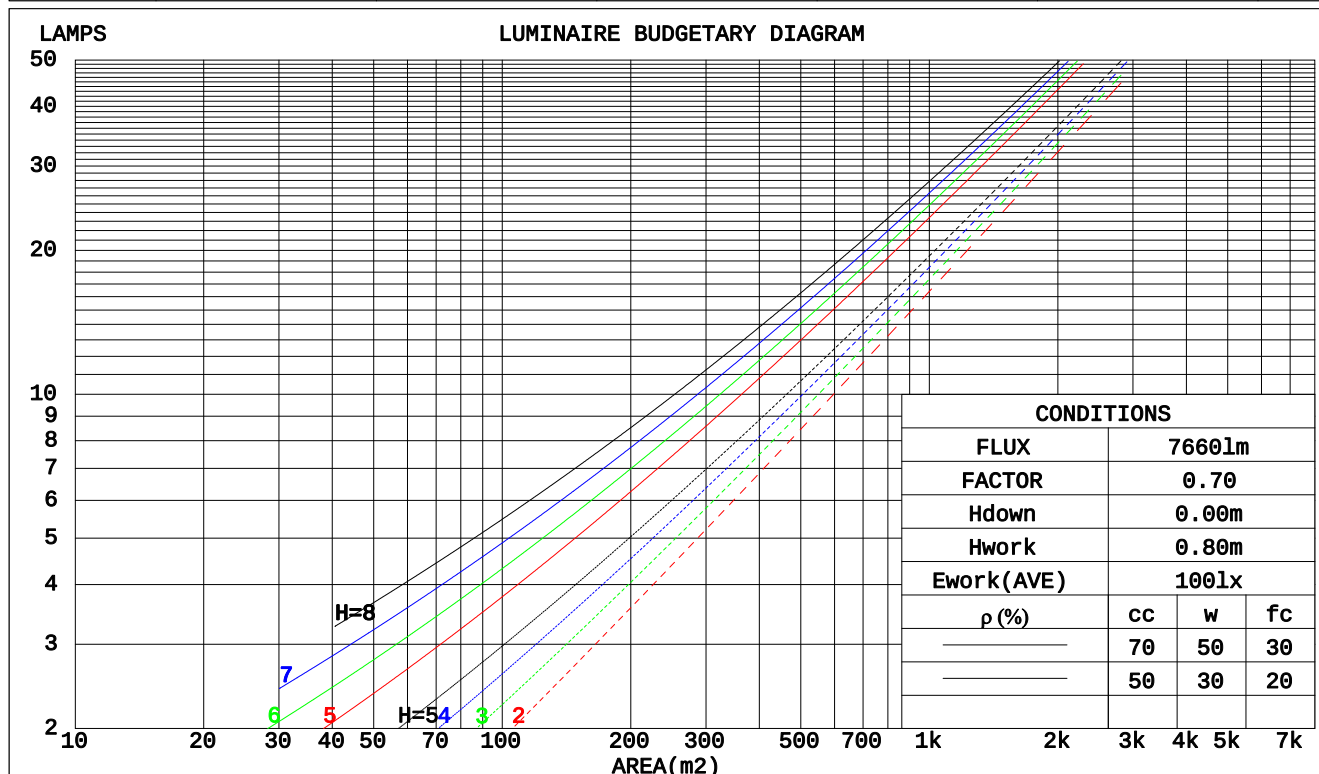
C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators: 090003
 Test Date: 2020-01-07

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 γ Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.276
 Humidity: 65.0%
 Test Distance: 8.950m [K=1.0000]
 Remarks: 6000K RA80 15*30 2835

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.5V I:0.2670A P:57.70W PF:0.9800 Lamp Flux:7660.15x1 lm		
NAME: LED Tri-proof light	TYPE:1.5M 60W	WEIGHT:
DIM.: 1500	SPEC.:SL-P65F5-60-C	SERIAL No.:20200107012
MFR.: Shinelong Technology Corp., Ltd.	SUR.:1.5*0.1	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	1.17	1.17	1.17	1.13	1.13	1.13	1.06	1.06	1.06	.99	.99	.99	.93	.93	.93	.90														
1.0	.99	.94	.90	.96	.91	.87	.90	.86	.83	.84	.81	.78	.79	.77	.74	.72														
2.0	.85	.78	.72	.83	.76	.70	.77	.72	.67	.73	.68	.64	.68	.64	.61	.58														
3.0	.74	.66	.59	.72	.64	.58	.68	.61	.55	.64	.58	.53	.60	.55	.51	.48														
4.0	.66	.56	.49	.64	.55	.49	.60	.53	.47	.56	.50	.45	.53	.48	.44	.41														
5.0	.59	.49	.42	.57	.48	.42	.54	.46	.40	.51	.44	.39	.48	.42	.38	.35														
6.0	.53	.43	.37	.51	.42	.36	.48	.41	.35	.46	.39	.34	.43	.37	.33	.31														
7.0	.48	.39	.32	.46	.38	.32	.44	.36	.31	.42	.35	.30	.39	.34	.29	.27														
8.0	.43	.35	.29	.42	.34	.28	.40	.33	.28	.38	.32	.27	.36	.30	.26	.24														
9.0	.40	.31	.26	.39	.31	.25	.37	.30	.25	.35	.29	.24	.33	.28	.24	.22														
10.0	.37	.29	.23	.36	.28	.23	.34	.27	.22	.33	.26	.22	.31	.25	.21	.20														



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators: 090003
 Test Date: 2020-01-07

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.276
 Humidity: 65.0%
 Test Distance: 8.950m [K=1.0000]
 Remarks: 6000K RA80 15*30 2835

WEC AND CCEC

Test:U:220.5V I:0.2670A P:57.70W PF:0.9800 Lamp Flux:7660.15x1 lm									
NAME: LED Tri-proof light					TYPE:1.5M 60W			WEIGHT:	
DIM.: 1500					SPEC.:SL-P65F5-60-C			SERIAL No.:20200107012	
MFR.: Shinelong Technology Corp., Ltd.					SUR.:1.5*0.1			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						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.359	.204	.065	.349	.199	.063	.330	.189	.060	.313	.180	.058	.297	.172	.055		
2.0	.318	.174	.054	.309	.170	.052	.292	.163	.050	.277	.155	.049	.262	.148	.047		
3.0	.286	.152	.046	.278	.149	.045	.263	.143	.043	.249	.136	.042	.236	.131	.040		
4.0	.260	.135	.040	.253	.132	.039	.239	.127	.038	.226	.121	.037	.214	.116	.035		
5.0	.238	.121	.035	.231	.119	.035	.219	.114	.034	.207	.109	.033	.196	.105	.032		
6.0	.219	.110	.031	.213	.107	.031	.202	.103	.030	.191	.099	.029	.181	.095	.028		
7.0	.202	.100	.028	.197	.098	.028	.187	.094	.027	.177	.091	.026	.168	.087	.026		
8.0	.188	.092	.026	.183	.090	.026	.174	.087	.025	.165	.084	.024	.157	.081	.024		
9.0	.176	.085	.024	.171	.083	.023	.163	.080	.023	.155	.078	.022	.147	.075	.022		
10.0	.165	.079	.022	.161	.078	.022	.153	.075	.021	.146	.072	.021	.139	.070	.020		

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						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.263	.263	.263	.225	.225	.225	.154	.154	.154	.088	.088	.088	.028	.028	.028	
1.0	.257	.229	.204	.220	.197	.175	.150	.135	.121	.087	.078	.071	.028	.025	.023	
2.0	.250	.206	.169	.214	.177	.146	.147	.123	.102	.085	.071	.060	.027	.023	.019	
3.0	.242	.189	.146	.207	.163	.127	.142	.113	.089	.082	.066	.052	.026	.021	.017	
4.0	.234	.176	.131	.201	.152	.114	.138	.106	.080	.080	.062	.048	.026	.020	.016	
5.0	.226	.166	.121	.194	.143	.105	.134	.100	.074	.078	.059	.044	.025	.019	.015	
6.0	.219	.158	.114	.188	.137	.099	.130	.096	.070	.075	.056	.042	.024	.018	.014	
7.0	.212	.151	.108	.182	.131	.094	.126	.092	.067	.073	.054	.040	.024	.018	.013	
8.0	.205	.145	.104	.177	.126	.091	.122	.088	.064	.071	.052	.038	.023	.017	.013	
9.0	.199	.140	.101	.172	.122	.088	.119	.086	.062	.069	.051	.037	.022	.017	.012	
10.0	.193	.136	.098	.167	.118	.086	.116	.083	.061	.067	.049	.036	.022	.016	.012	

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:090003
 Test Date:2020-01-07

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.276
 Humidity:65.0%
 Test Distance:8.950m [K=1.0000]
 Remarks: 6000K RA80 15*30 2835

Uncorrected UGR Table

Test:U:220.5V I:0.2670A P:57.70W PF:0.9800 Lamp Flux:7660.15x1 lm										
NAME: LED Tri-proof light					TYPE:1.5M 60W			WEIGHT:		
DIM.: 1500					SPEC.:SL-P65F5-60-C			SERIAL No.:20200107012		
MFR.: Shinelong Technology Corp., Ltd.					SUR.:1.5*0.1			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	21.3	22.8	21.7	23.1	23.5	21.3	22.8	21.7	23.1	23.5
3H	23.2	24.6	23.7	25.0	25.4	23.2	24.6	23.7	25.0	25.4
4H	24.2	25.5	24.6	25.9	26.3	24.2	25.5	24.6	25.9	26.3
6H	25.2	26.4	25.7	26.8	27.3	25.2	26.4	25.7	26.8	27.3
8H	25.7	26.9	26.2	27.3	27.8	25.7	26.9	26.2	27.3	27.8
12H	26.3	27.4	26.8	27.9	28.4	26.3	27.4	26.8	27.9	28.4
4H 2H	22.0	23.3	22.4	23.7	24.1	22.0	23.3	22.4	23.7	24.1
3H	24.1	25.2	24.6	25.7	26.2	24.1	25.2	24.6	25.7	26.2
4H	25.2	26.3	25.8	26.8	27.3	25.2	26.3	25.8	26.8	27.3
6H	26.4	27.3	27.0	27.9	28.4	26.4	27.3	27.0	27.9	28.4
8H	27.0	27.9	27.6	28.4	29.0	27.0	27.9	27.6	28.4	29.0
12H	27.7	28.5	28.3	29.1	29.7	27.7	28.5	28.3	29.1	29.7
8H 4H	25.7	26.5	26.2	27.1	27.7	25.7	26.5	26.2	27.1	27.7
6H	27.1	27.8	27.7	28.4	29.0	27.1	27.8	27.7	28.4	29.0
8H	27.9	28.6	28.5	29.1	29.8	27.9	28.6	28.5	29.1	29.8
12H	28.8	29.4	29.4	30.0	30.7	28.8	29.4	29.4	30.0	30.7
12H 4H	25.8	26.6	26.3	27.1	27.7	25.8	26.6	26.3	27.1	27.7
6H	27.3	27.9	27.9	28.5	29.2	27.3	27.9	27.9	28.5	29.2
8H	28.2	28.7	28.8	29.4	30.0	28.2	28.7	28.8	29.4	30.0
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				

CIE Pub.117 Corrected 7660 lm Total Lamp Luminous Flux.(8log(F/F0) = 7.1)

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:090003
 Test Date:2020-01-07

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.276
 Humidity:65.0%
 Test Distance:8.950m [K=1.0000]
 Remarks: 6000K RA80 15*30 2835

UTILIZATION FACTORS TABLE

Test:U:220.5V I:0.2670A P:57.70W PF:0.9800 Lamp Flux:7660.15x1 lm		
NAME: LED Tri-proof light	TYPE:1.5M 60W	WEIGHT:
DIM.: 1500	SPEC.:SL-P65F5-60-C	SERIAL No.:20200107012
MFR.: Shinelong Technology Corp., Ltd.	SUR.:1.5*0.1	PROTECTION ANGLE:

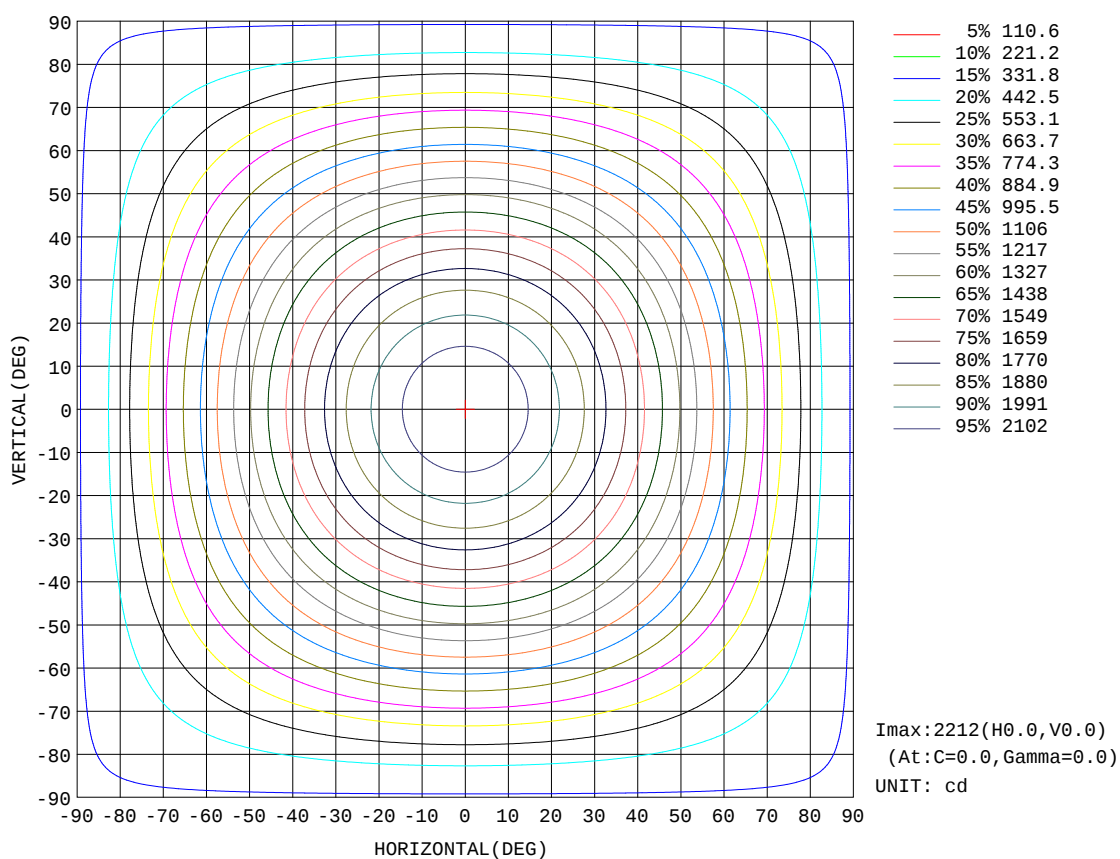
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	52	40	33	51	40	33	50	39	33	26
0.80	62	49	42	60	49	41	58	48	41	33
1.00	70	58	50	68	57	49	65	58	48	40
1.25	77	65	57	75	64	56	71	62	55	47
1.50	82	70	62	79	69	62	75	67	60	51
2.00	89	79	71	86	77	70	82	74	68	58
2.50	93	84	76	90	82	75	85	78	72	62
3.00	96	88	81	94	86	80	88	82	77	66
4.00	101	94	88	98	91	86	92	87	82	70
5.00	104	97	92	100	95	90	94	90	86	74
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25DEG
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 Test Date:2020-01-07

γ Range: 0 - 180DEG
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 Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.276
 Humidity:65.0%
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 Remarks: 6000K RA80 15*30 2835

ISOCANDELA DIAGRAM

Test:U:220.5V I:0.2670A P:57.70W PF:0.9800 Lamp Flux:7660.15x1 lm		
NAME: LED Tri-proof light	TYPE:1.5M 60W	WEIGHT:
DIM.: 1500	SPEC.:SL-P65F5-60-C	SERIAL No.:20200107012
MFR.: Shinelong Technology Corp., Ltd.	SUR.:1.5*0.1	PROTECTION ANGLE:

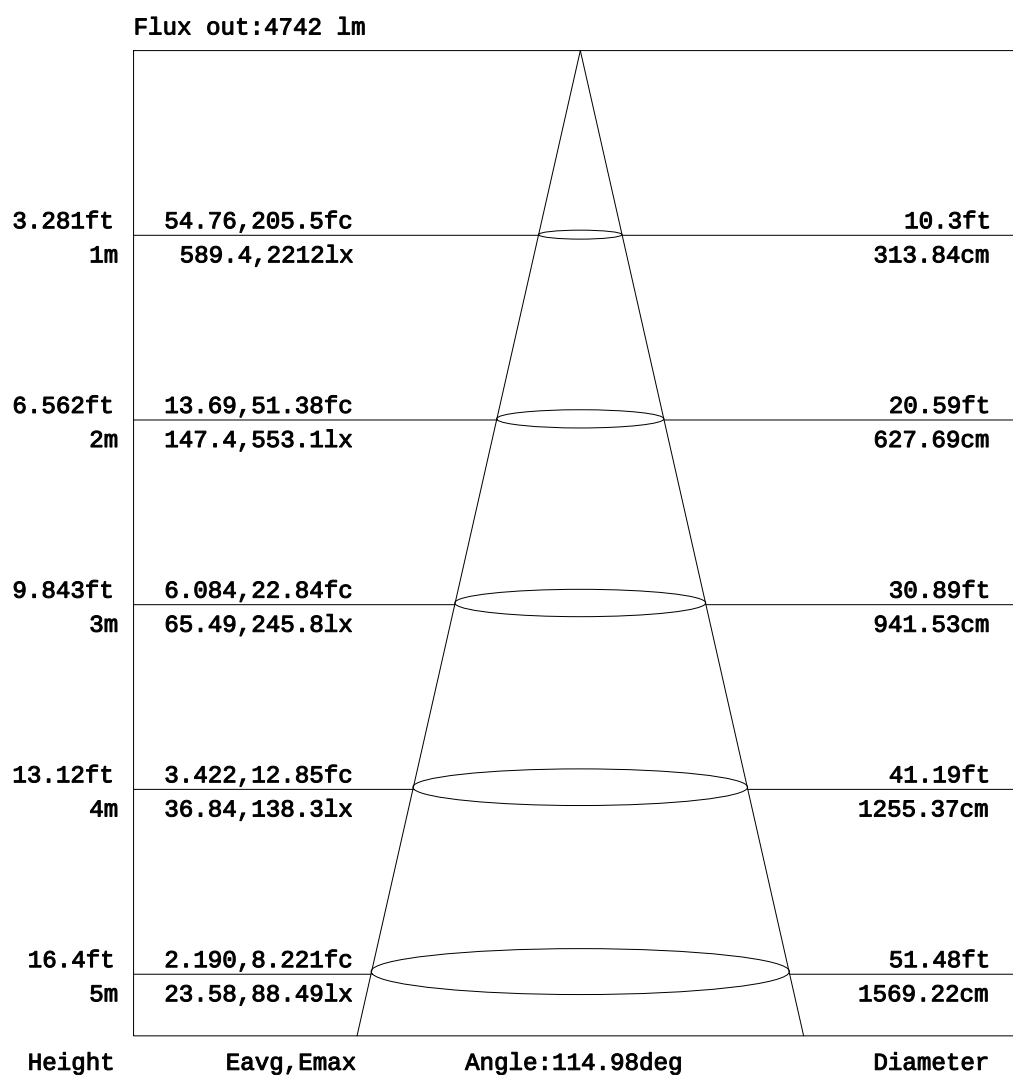


C Range: 0 - 360DEG
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AAI Figure

Test:U:220.5V I:0.2670A P:57.70W PF:0.9800 Lamp Flux:7660.15x1 lm		
NAME: LED Tri-proof light	TYPE:1.5M 60W	WEIGHT:
DIM.: 1500	SPEC.:SL-P65F5-60-C	SERIAL No.:20200107012
MFR.: Shinelong Technology Corp., Ltd.	SUR.:1.5*0.1	PROTECTION ANGLE:



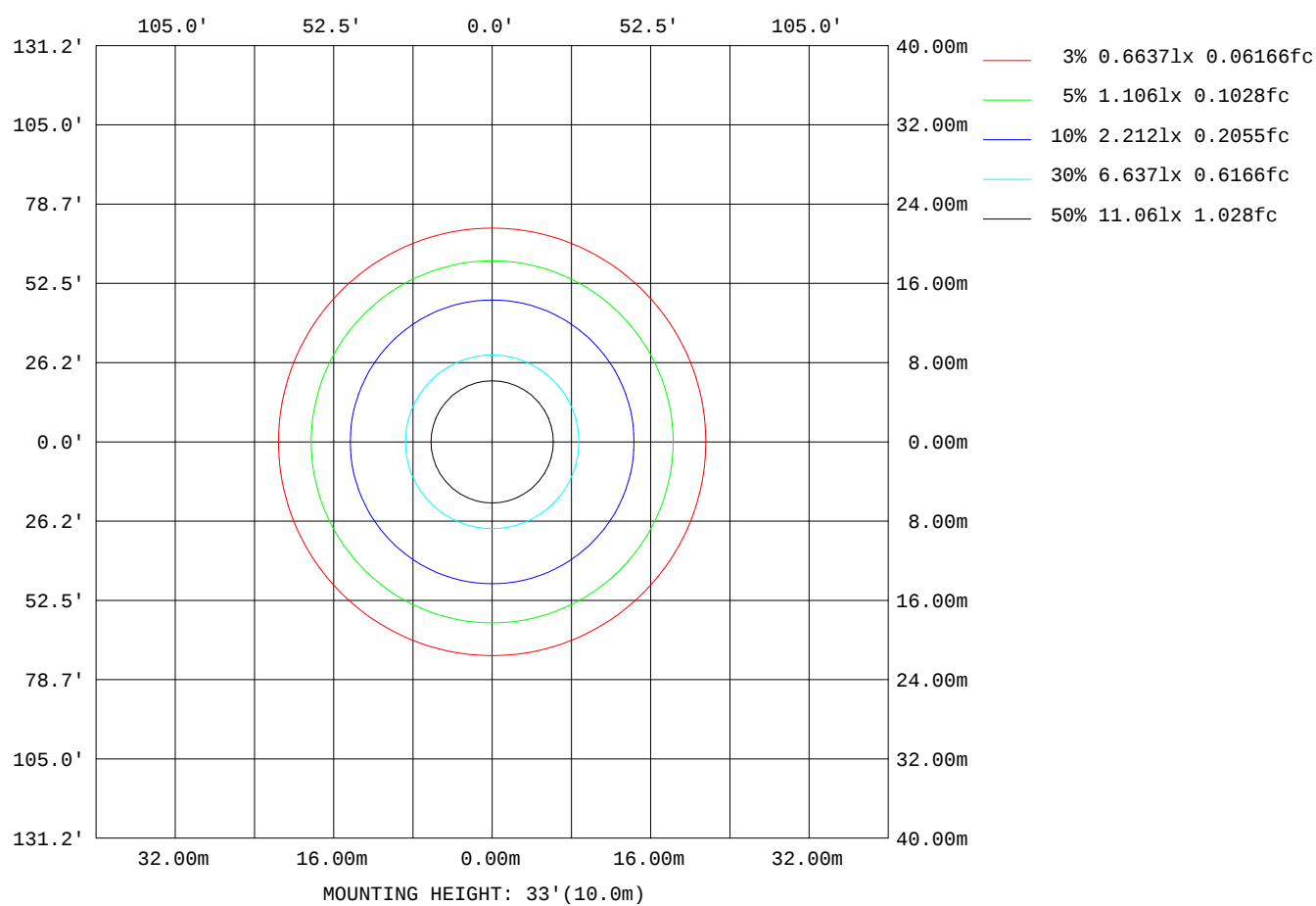
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25DEG
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γ Range: 0 - 180DEG
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Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.276
Humidity:65.0%
Test Distance:8.950m [K=1.0000]
Remarks: 6000K RA80 15*30 2835

ISOLUX DIAGRAM

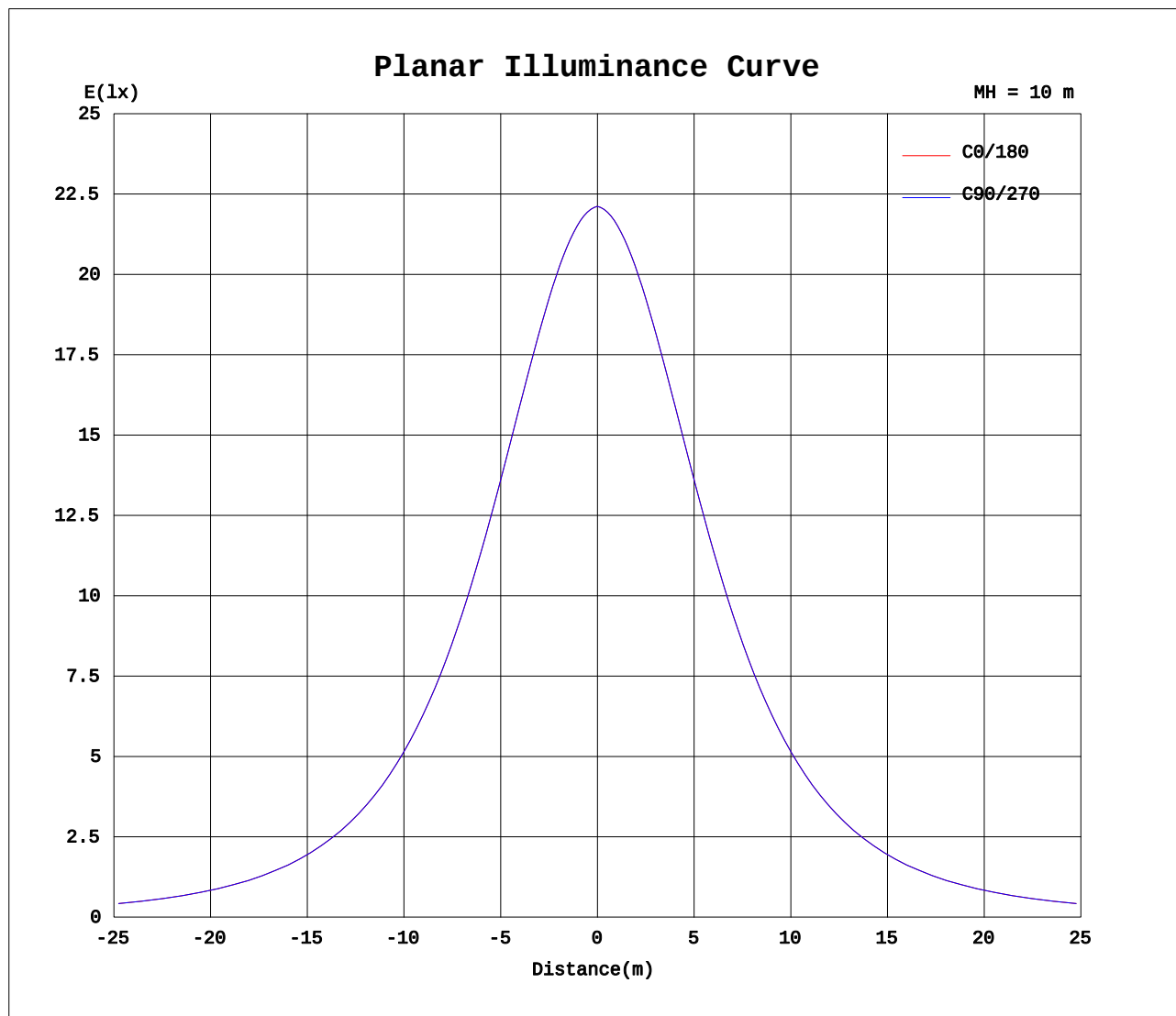
Test:U:220.5V I:0.2670A P:57.70W PF:0.9800 Lamp Flux:7660.15x1 lm		
NAME: LED Tri-proof light	TYPE:1.5M 60W	WEIGHT:
DIM.: 1500	SPEC.:SL-P65F5-60-C	SERIAL No.:20200107012
MFR.: Shinelong Technology Corp., Ltd.	SUR.:1.5*0.1	PROTECTION ANGLE:



C Range: 0 - 360DEG
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Planar Illuminance Curve



C Range: 0 - 360DEG
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LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.5V I:0.2670A P:57.70W PF:0.9800 Lamp Flux:7660.15x1 lm								
NAME: LED Tri-proof light					TYPE:1.5M 60W			WEIGHT:
DIM.: 1500					SPEC.:SL-P65F5-60-C			SERIAL No.:20200107012
MFR.: Shinelong Technology Corp., Ltd.					SUR.:1.5*0.1			PROTECTION ANGLE:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	45	90	135	180	225	270	315										
0	2212	2212	2212	2212	2212	2212	2212	2212										
5	2193	2193	2193	2193	2193	2193	2193	2193										
10	2154	2154	2154	2154	2154	2154	2154	2154										
15	2096	2096	2096	2096	2096	2096	2096	2096										
20	2022	2022	2022	2022	2022	2022	2022	2022										
25	1932	1932	1932	1932	1932	1932	1932	1932										
30	1829	1829	1829	1829	1829	1829	1829	1829										
35	1714	1714	1714	1714	1714	1714	1714	1714										
40	1588	1588	1588	1588	1588	1588	1588	1588										
45	1457	1457	1457	1457	1457	1457	1457	1457										
50	1321	1321	1321	1321	1321	1321	1321	1321										
55	1179	1179	1179	1179	1179	1179	1179	1179										
60	1035	1035	1035	1035	1035	1035	1035	1035										
65	895	895	895	895	895	895	895	895										
70	756	756	756	756	756	756	756	756										
75	622	622	622	622	622	622	622	622										
80	501	501	501	501	501	501	501	501										
85	398	398	398	398	398	398	398	398										
90	321	321	321	321	321	321	321	321										
95	261	261	261	261	261	261	261	261										
100	210	210	210	210	210	210	210	210										
105	168	168	168	168	168	168	168	168										
110	133	133	133	133	133	133	133	133										
115	105	105	105	105	105	105	105	105										
120	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5										
125	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6										
130	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3										
135	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1										
140	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0										
145	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3										
150	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7										
155	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3										
160	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2										
165	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5										
170	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4										
175	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9										
180	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7										

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:090003
 Test Date:2020-01-07

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.276
 Humidity:65.0%
 Test Distance:8.950m [K=1.0000]
 Remarks: 6000K RA80 15*30 2835