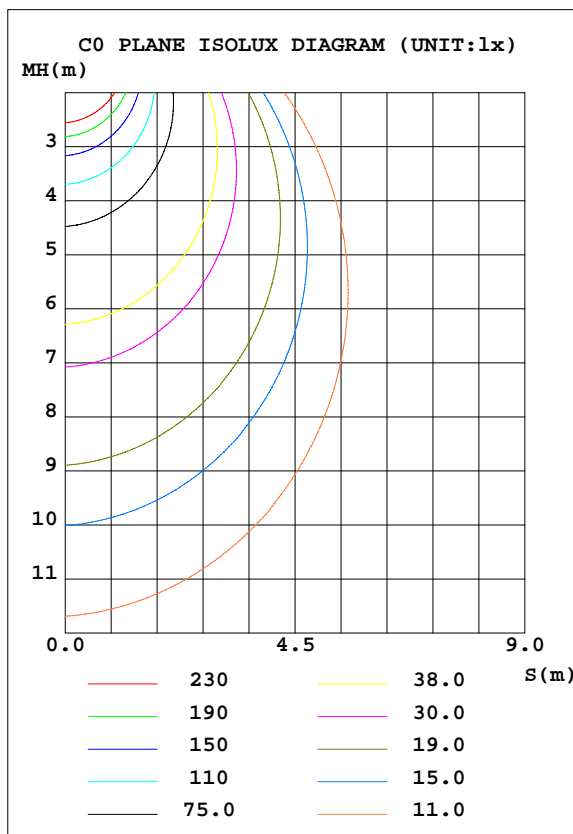
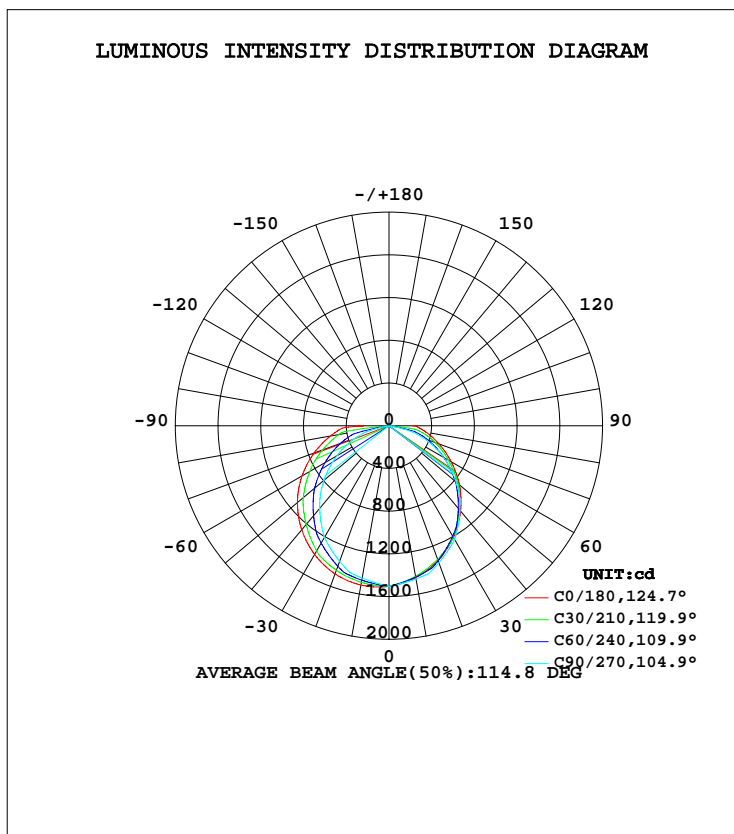


## LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:222.6V I:0.1780A P:38.90W PF:0.9770 Lamp Flux:4455.74x1 lm		
NAME: LED Tri-proof Light	TYPE:LED Tri-proof Light	WEIGHT:
DIM.:	SPEC.:40W	SERIAL No.:
MFR.: FILUX	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA    Eff: 114.54 lm/W			
MODEL	40W 5000K	Imax(cd)	1516	S/MH(C0/180)	1.20
NOMINAL POWER(W)	40W	LOR(%)	100.0	S/MH(C90/270)	1.22
RATED VOLTAGE(V)	222	TOTAL FLUX(lm)	4455.7	η UP, DN(C0-180)	0.0, 50.0
NOMINAL FLUX(lm)	4455.74	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0, 50.0
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	222.6	η down(%)	100.0	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Alice zhang  
 Test Date:2018-09-06

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity:65.0%  
 Test Distance:6.700m [K=1.0000]  
 Remarks: LED Tri-proof Light

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	#lum,lamp
5	1479	1471	1480	1496	1515	1494	1476	1468	0- 5	35.65	35.65	0.80,0.80
10	1444	1434	1457	1483	1514	1478	1449	1428	5- 10	105.2	140.9	3.16,3.16
15	1398	1391	1433	1464	1501	1457	1422	1382	10- 15	171.3	312.1	7.01,7.01
20	1343	1345	1365	1440	1477	1432	1351	1333	15- 20	231.5	543.7	12.2,12.2
25	1277	1270	1297	1383	1440	1373	1280	1256	20- 25	283.0	826.6	18.6,18.6
30	1206	1189	1229	1317	1392	1307	1209	1173	25- 30	325.2	1152	25.8,25.8
35	1127	1108	1131	1249	1336	1237	1109	1090	30- 35	357.0	1509	33.9,33.9
40	1043	1024	1033	1175	1271	1163	1009	1004	35- 40	376.7	1885	42.3,42.3
45	954.0	921.6	934.8	1083	1198	1069	908.9	900.7	40- 45	385.0	2270	51,51
50	860.2	821.2	820.3	991.7	1119	975.4	794.2	799.7	45- 50	382.3	2653	59.5,59.5
55	765.2	722.9	705.8	901.1	1033	882.3	679.5	701.1	50- 55	368.1	3021	67.8,67.8
60	671.4	617.1	591.2	799.0	940.3	779.2	564.7	597.2	55- 60	344.3	3365	75.5,75.5
65	582.3	516.2	472.1	698.4	843.3	677.7	447.8	498.1	60- 65	312.4	3678	82.5,82.5
70	498.5	424.1	353.0	599.3	745.2	579.0	330.9	408.3	65- 70	274.1	3952	88.7,88.7
75	422.2	340.6	233.9	501.7	649.4	483.7	214.0	327.9	70- 75	229.9	4182	93.8,93.8
80	354.0	217.4	0	335.6	557.3	322.7	0	209.2	75- 80	169.4	4351	97.6,97.6
85	294.6	0	0	0	472.4	0	0	0	80- 85	81.82	4433	99.5,99.5
90	217.4	0	0	0	318.6	0	0	0	85- 90	22.95	4456	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			

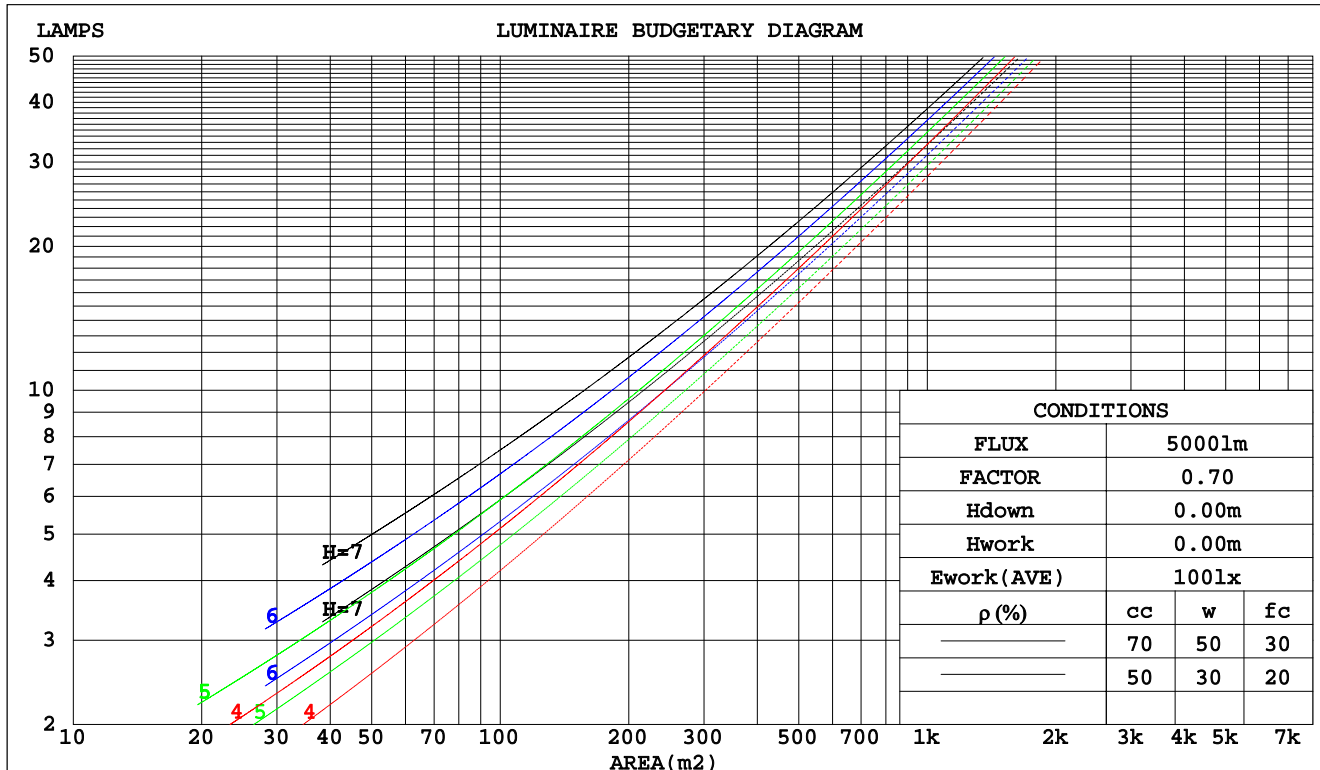
C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Alice zhang  
 Test Date:2018-09-06

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity:65.0%  
 Test Distance:6.700m [K=1.0000]  
 Remarks: LED Tri-proof Light

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:222.6V I:0.1780A P:38.90W PF:0.9770 Lamp Flux:4455.74x1 lm		
NAME: LED Tri-proof Light	TYPE:LED Tri-proof Light	WEIGHT:
DIM.:	SPEC.:40W	SERIAL No.:
MFR.: FILUX	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						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	1.00
1.0	1.03	.98	.94	1.01	.97	.93	.96	.93	.90	.92	.90	.87	.89	.87	.84	.82
2.0	.89	.82	.76	.87	.81	.75	.84	.78	.73	.80	.76	.72	.77	.73	.70	.68
3.0	.78	.69	.63	.76	.68	.62	.73	.66	.61	.70	.65	.60	.68	.63	.59	.56
4.0	.69	.60	.53	.67	.59	.52	.65	.57	.52	.62	.56	.51	.60	.55	.50	.48
5.0	.61	.52	.45	.60	.51	.45	.58	.50	.44	.56	.49	.44	.54	.48	.43	.41
6.0	.55	.46	.39	.54	.45	.39	.52	.45	.39	.51	.44	.38	.49	.43	.38	.36
7.0	.50	.41	.35	.49	.41	.35	.48	.40	.34	.46	.39	.34	.45	.38	.34	.32
8.0	.46	.37	.31	.45	.37	.31	.43	.36	.31	.42	.35	.30	.41	.35	.30	.28
9.0	.42	.33	.28	.41	.33	.28	.40	.33	.27	.39	.32	.27	.38	.32	.27	.25
10.0	.39	.30	.25	.38	.30	.25	.37	.30	.25	.36	.29	.25	.35	.29	.25	.23



C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Alice zhang  
 Test Date:2018-09-06

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity:65.0%  
 Test Distance:6.700m [K=1.0000]  
 Remarks: LED Tri-proof Light

# Test Report

## WEC AND CCEC

Test:U:222.6V I:0.1780A P:38.90W PF:0.9770 Lamp Flux:4455.74x1 lm		
NAME: LED Tri-proof Light	TYPE:LED Tri-proof Light	WEIGHT:
DIM.:	SPEC.:40W	SERIAL No.:
MFR.: FILUX	SUR.:	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						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.327	.186	.059	.320	.182	.058	.306	.176	.056	.294	.170	.054	.283	.164	.053	
2.0	.304	.167	.051	.298	.164	.051	.286	.159	.049	.275	.155	.048	.265	.150	.047	
3.0	.280	.149	.045	.274	.147	.044	.264	.143	.043	.254	.139	.043	.245	.136	.042	
4.0	.256	.133	.039	.252	.132	.039	.242	.128	.038	.234	.125	.038	.226	.123	.037	
5.0	.236	.120	.035	.232	.119	.035	.223	.116	.034	.216	.114	.034	.209	.111	.033	
6.0	.218	.109	.031	.214	.108	.031	.207	.106	.031	.200	.104	.031	.194	.102	.030	
7.0	.202	.100	.028	.199	.099	.028	.192	.097	.028	.186	.095	.028	.180	.094	.028	
8.0	.189	.092	.026	.185	.091	.026	.180	.090	.026	.174	.088	.025	.169	.087	.025	
9.0	.176	.085	.024	.174	.085	.024	.168	.083	.024	.163	.082	.023	.159	.081	.023	
10.0	.166	.079	.022	.163	.079	.022	.158	.078	.022	.154	.076	.022	.150	.075	.022	

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						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.181	.156	.133	.155	.134	.114	.106	.092	.079	.061	.053	.046	.020	.017	.015	
2.0	.174	.132	.096	.149	.113	.083	.102	.079	.058	.059	.046	.034	.019	.015	.011	
3.0	.166	.114	.073	.143	.099	.063	.098	.069	.044	.057	.040	.026	.018	.013	.009	
4.0	.159	.101	.057	.136	.087	.050	.094	.061	.035	.054	.036	.021	.017	.012	.007	
5.0	.151	.091	.046	.130	.079	.040	.089	.055	.028	.052	.032	.017	.017	.011	.006	
6.0	.144	.082	.039	.124	.071	.034	.085	.050	.024	.049	.029	.014	.016	.010	.005	
7.0	.137	.076	.033	.118	.066	.029	.081	.046	.020	.047	.027	.012	.015	.009	.004	
8.0	.130	.070	.028	.112	.061	.025	.078	.042	.018	.045	.025	.010	.015	.008	.003	
9.0	.124	.065	.025	.107	.056	.022	.074	.040	.015	.043	.023	.009	.014	.008	.003	
10.0	.118	.061	.022	.102	.053	.019	.071	.037	.014	.041	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Alice zhang  
 Test Date:2018-09-06

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity:65.0%  
 Test Distance:6.700m [K=1.0000]  
 Remarks: LED Tri-proof Light

## Uncorrected UGR Table

Test:U:222.6V I:0.1780A P:38.90W PF:0.9770 Lamp Flux:4455.74x1 lm										
NAME: LED Tri-proof Light					TYPE:LED Tri-proof Light			WEIGHT:		
DIM.:					SPEC.:40W			SERIAL No.:		
MFR.: FILUX					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	21.7	23.2	21.9	23.4	23.6	21.0	22.6	21.3	22.8	23.0
3H	23.6	25.1	23.9	25.3	25.6	22.5	23.9	22.8	24.1	24.4
4H	24.6	26.0	24.9	26.3	26.5	23.0	24.3	23.3	24.6	24.8
6H	25.6	26.9	25.9	27.2	27.5	23.0	24.3	23.3	24.6	24.8
8H	26.1	27.4	26.5	27.7	27.9	22.9	24.2	23.3	24.5	24.8
12H	26.7	28.0	27.1	28.3	28.6	22.9	24.1	23.2	24.4	24.7
4H 2H	22.2	23.6	22.6	23.9	24.1	21.8	23.1	22.1	23.4	23.7
3H	24.4	25.7	24.8	26.0	26.3	23.4	24.6	23.7	24.9	25.2
4H	25.6	26.7	26.0	27.0	27.4	24.0	25.1	24.4	25.5	25.8
6H	26.7	27.7	27.1	28.1	28.4	24.1	25.1	24.5	25.5	25.8
8H	27.4	28.3	27.8	28.6	29.0	24.1	25.0	24.5	25.4	25.7
12H	28.1	28.9	28.5	29.3	29.7	24.0	24.9	24.4	25.3	25.7
8H 4H	25.9	26.8	26.3	27.2	27.6	24.6	25.5	25.0	25.9	26.3
6H	27.3	28.1	27.8	28.5	28.9	24.7	25.5	25.2	25.9	26.3
8H	28.1	28.8	28.6	29.2	29.7	24.7	25.4	25.1	25.8	26.2
12H	29.1	29.7	29.5	30.1	30.6	24.6	25.2	25.1	25.7	26.2
12H 4H	25.9	26.7	26.3	27.1	27.5	24.7	25.6	25.1	25.9	26.4
6H	27.3	28.0	27.8	28.4	28.9	24.9	25.6	25.3	26.0	26.4
8H	28.1	28.7	28.6	29.2	29.7	24.8	25.4	25.3	25.9	26.4
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.2 / - 0.2				
1.5H	+ 0.1 / - 0.2					+ 0.1 / - 0.1				
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				

CIE Pub.117 Corrected 4456 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:Alice zhang  
 Test Date:2018-09-06

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity:65.0%  
 Test Distance:6.700m [K=1.0000]  
 Remarks: LED Tri-proof Light

UTILIZATION FACTORS TABLE

Test:U:222.6V I:0.1780A P:38.90W PF:0.9770 Lamp Flux:4455.74x1 lm		
NAME: LED Tri-proof Light	TYPE:LED Tri-proof Light	WEIGHT:
DIM.:	SPEC.:40W	SERIAL No.:
MFR.: FILUX	SUR.:	PROTECTION ANGLE:

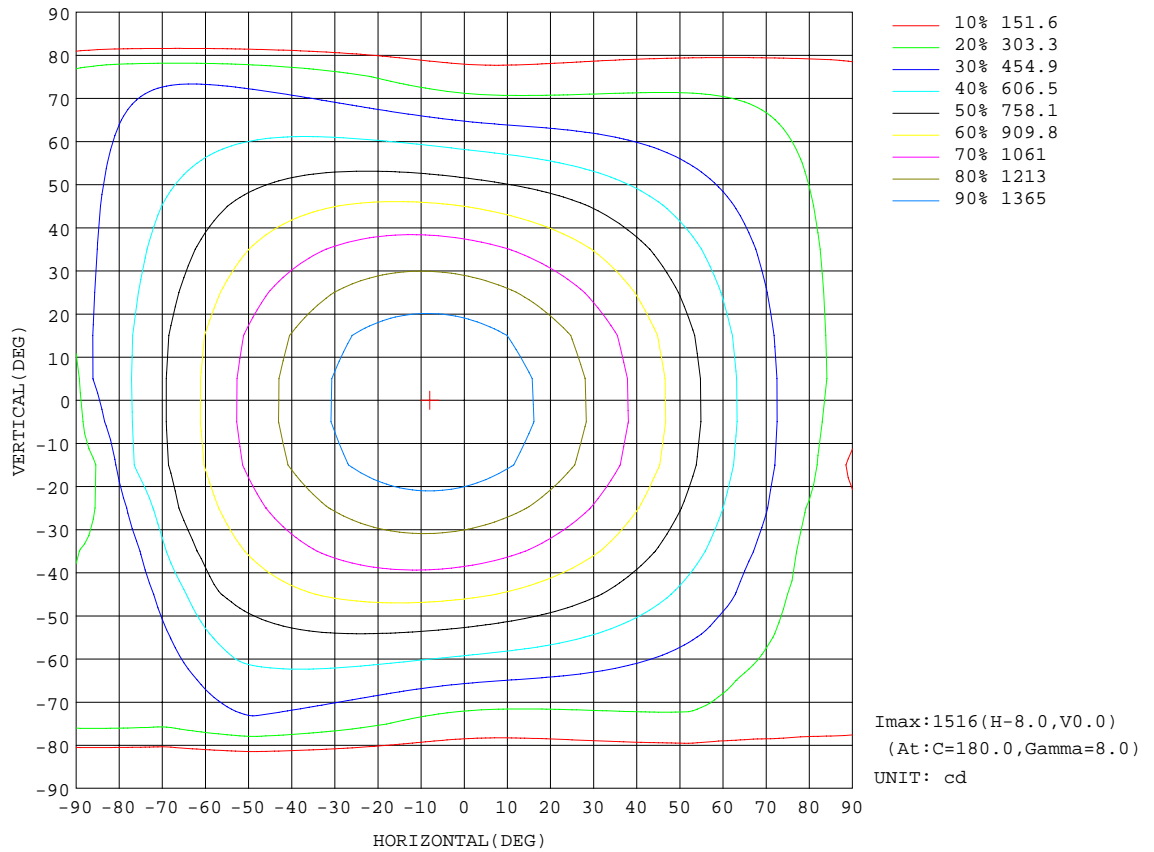
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	56	45	37	56	44	37	54	44	37	31
0.80	66	54	47	65	54	47	63	53	46	39
1.00	75	63	55	73	62	55	71	64	55	47
1.25	82	71	63	80	70	63	77	69	62	55
1.50	87	76	69	85	75	69	82	74	67	60
2.00	94	85	78	92	83	77	88	81	76	68
2.50	98	90	83	96	88	82	92	86	80	72
3.00	101	94	88	99	92	87	95	89	85	76
4.00	105	99	95	103	98	93	99	94	90	81
5.00	108	103	99	106	101	97	101	97	94	85
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:Alice zhang  
 Test Date:2018-09-06

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity:65.0%  
 Test Distance:6.700m [K=1.0000]  
 Remarks: LED Tri-proof Light

## ISOCANDELA DIAGRAM

Test:U:222.6V I:0.1780A P:38.90W PF:0.9770 Lamp Flux:4455.74x1 lm		
NAME: LED Tri-proof Light	TYPE:LED Tri-proof Light	WEIGHT:
DIM.:	SPEC.:40W	SERIAL No.:
MFR.: FILUX	SUR.:	PROTECTION ANGLE:

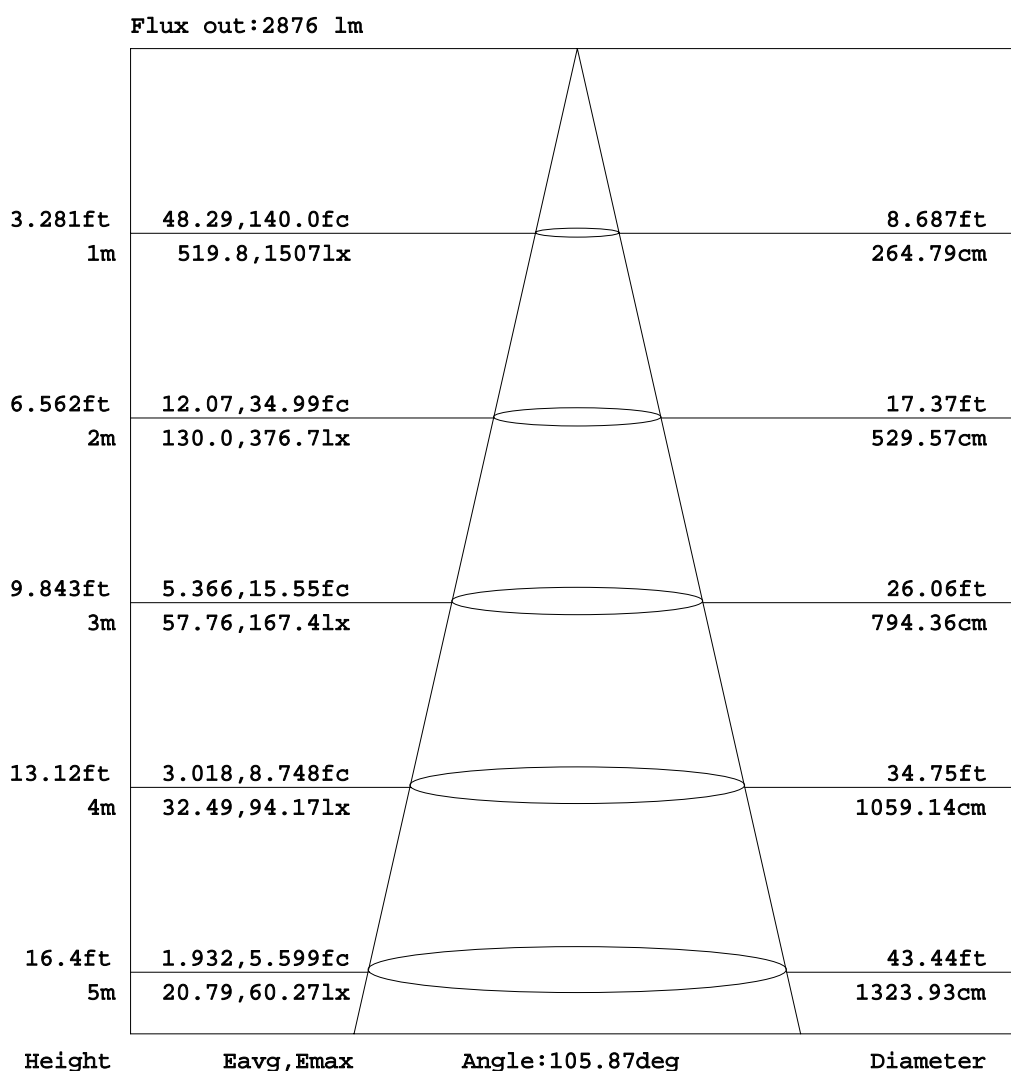


C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Alice zhang  
 Test Date:2018-09-06

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity:65.0%  
 Test Distance:6.700m [K=1.0000]  
 Remarks: LED Tri-proof Light

## AAI Figure

Test:U:222.6V I:0.1780A P:38.90W PF:0.9770 Lamp Flux:4455.74x1 lm		
NAME: LED Tri-proof Light	TYPE:LED Tri-proof Light	WEIGHT:
DIM.:	SPEC.:40W	SERIAL No.:
MFR.: FILUX	SUR.:	PROTECTION ANGLE:



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

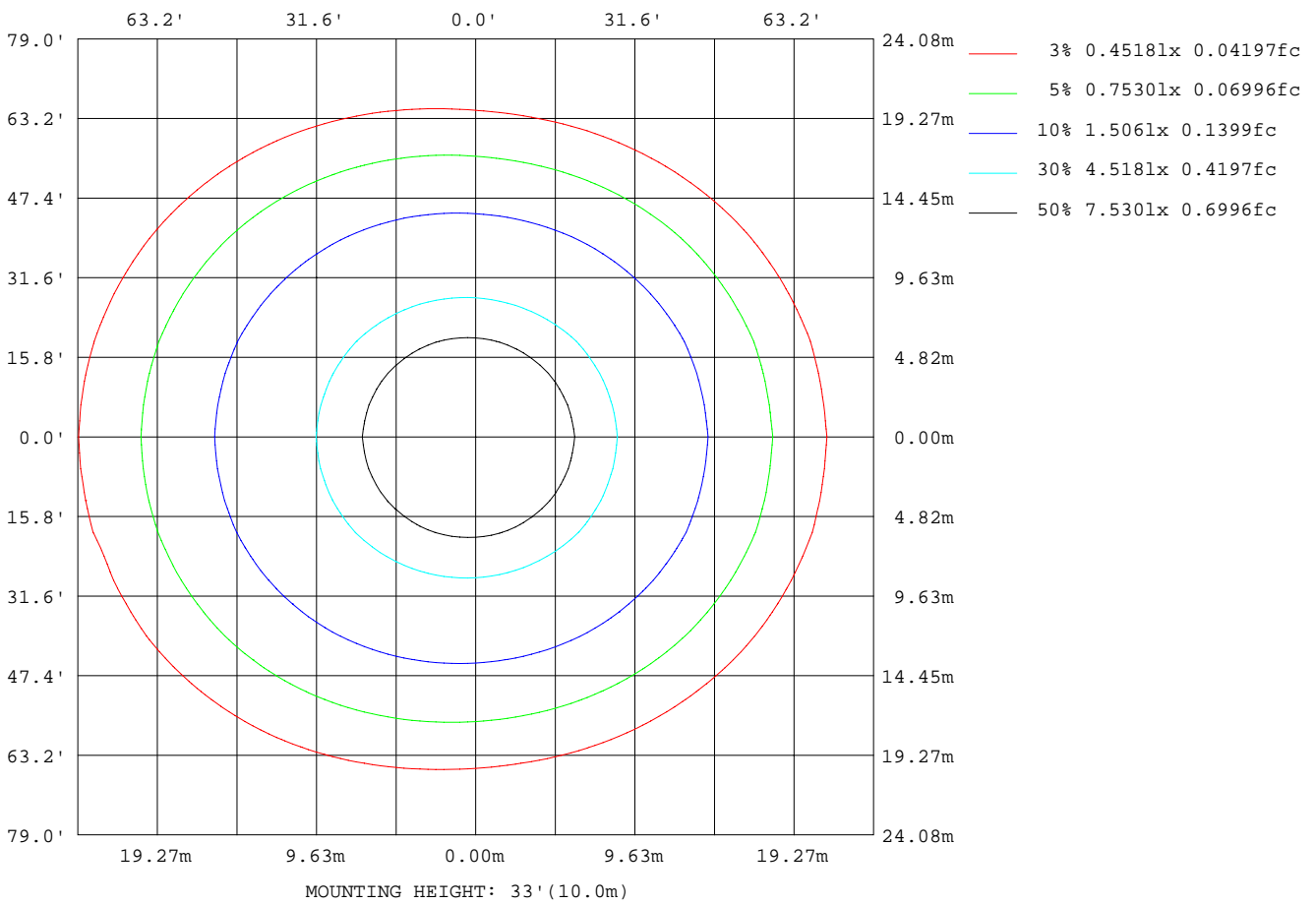
C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Alice zhang  
 Test Date:2018-09-06

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity:65.0%  
 Test Distance:6.700m [K=1.0000]  
 Remarks: LED Tri-proof Light



## ISOLUX DIAGRAM

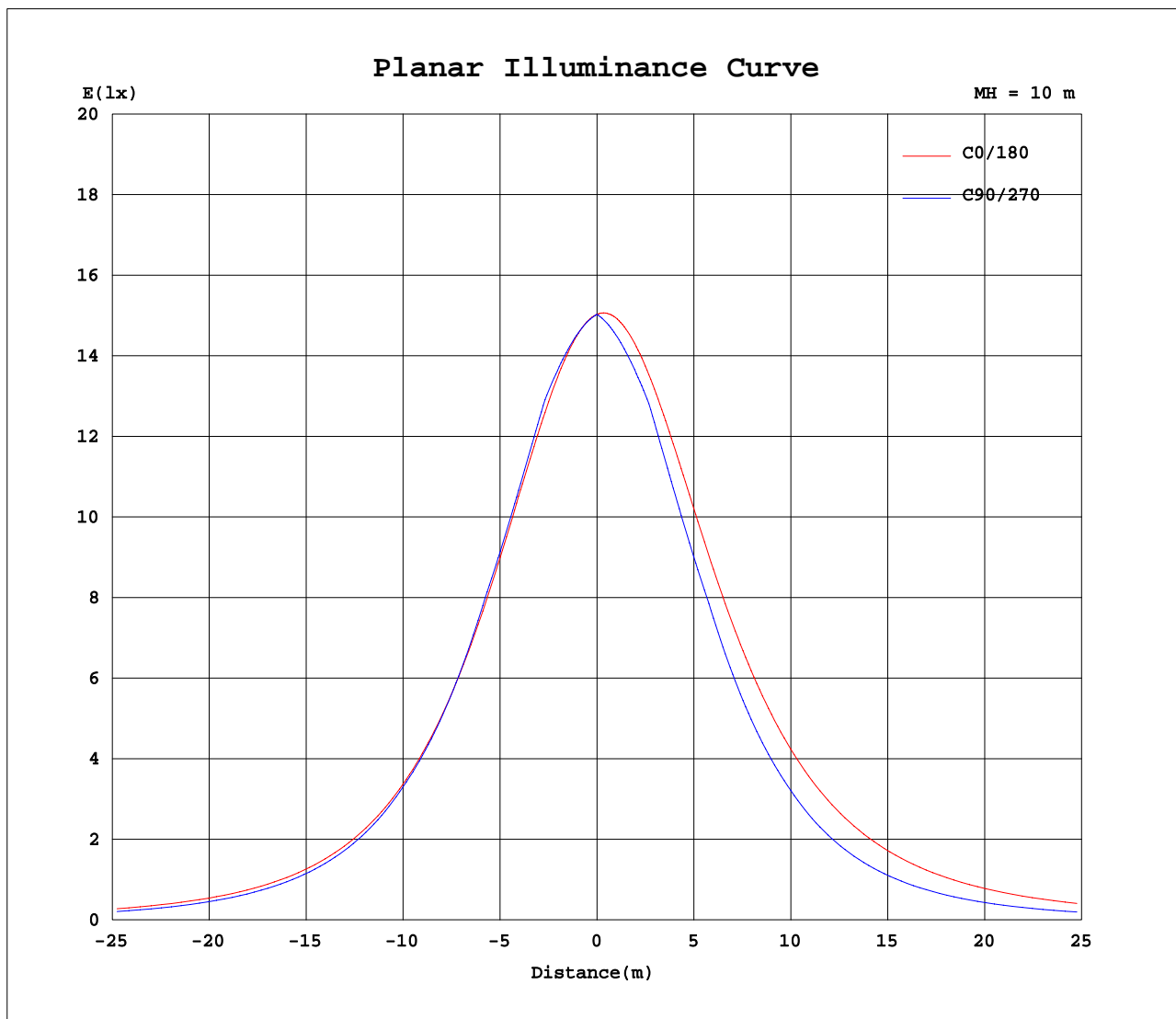
Test:U:222.6V I:0.1780A P:38.90W PF:0.9770 Lamp Flux:4455.74x1 lm		
NAME: LED Tri-proof Light	TYPE:LED Tri-proof Light	WEIGHT:
DIM.:	SPEC.:40W	SERIAL No.:
MFR.: FILUX	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Alice zhang  
 Test Date:2018-09-06

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity:65.0%  
 Test Distance:6.700m [K=1.0000]  
 Remarks: LED Tri-proof Light

Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Alice zhang  
Test Date:2018-09-06

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
Humidity:65.0%  
Test Distance:6.700m [K=1.0000]  
Remarks: LED Tri-proof Light







