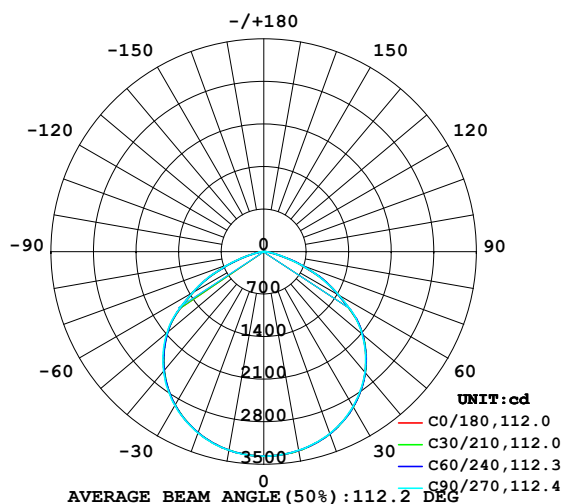


LUMINAIRE PHOTOMETRIC TEST REPORT

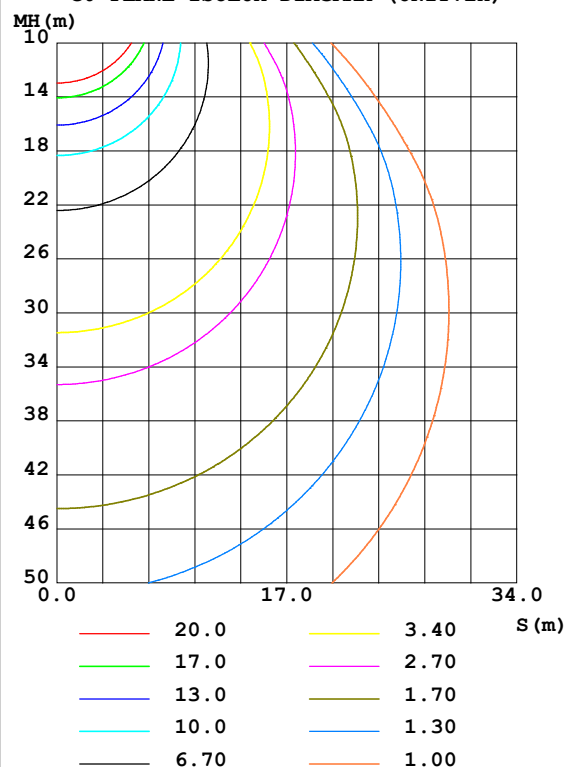
Test:U:480.02V I:0.1352A P:60.060W PF:0.9256 Freq:59.98Hz Lamp Flux:9152.43x1 lm		
NAME: LED Explosion-proof Flood Light	TYPE:Floodlight	WEIGHT:N/A
SPEC.:60W/Lumileds 5050/3000K	DIM.: 265*265*150mm	SERIAL No.:N/A
MFR.: LDPI Inc.,Ltd	SUR.:N/A	Shielding Angle:N/A

DATA OF LAMP		PHOTOMETRIC DATA Eff: 152.39 lm/W			
MODEL:FEL-D-60-V04-RN-T-480		Imax(cd)	3367	S/MH(C0/180)	1.29
NOMINAL POWER(W)	60	LOR(%)	100.0	S/MH(C90/270)	1.29
RATED VOLTAGE(V)	480	TOTAL FLUX(lm)	9152.4	η UP,DN(C0-180)	0.0,50.4
NOMINAL FLUX(lm)	9152.43	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,49.6
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	480	η down(%)	100.0	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:CL
Test Date:15 December 2018

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:6.010m [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	3323	3323	3318	3318	3316	3315	3318	3324	0- 10	319.0	319.0	3.49,3.49
20	3189	3190	3183	3177	3169	3166	3174	3183	10- 20	921.4	1240	13.6,13.6
30	2947	2949	2940	2929	2917	2913	2924	2936	20- 30	1415	2655	29,29
40	2594	2602	2587	2573	2554	2544	2567	2580	30- 40	1732	4387	47.9,47.9
50	2126	2126	2115	2095	2069	2062	2080	2099	40- 50	1812	6199	67.7,67.7
60	1418	1403	1420	1381	1344	1342	1359	1387	50- 60	1570	7769	84.9,84.9
70	662.2	683.1	661.0	624.6	603.2	588.9	618.9	629.5	60- 70	1002	8771	95.8,95.8
80	113.5	119.6	117.8	100.9	89.04	80.05	87.30	100.7	70- 80	351.6	9123	99.7,99.7
90	2.517	2.725	2.573	2.279	2.206	2.189	2.173	2.131	80- 90	29.70	9152	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 5299.7 lm

%lum = 57.9%

%lamp = 57.9%

Conical surface Flux(120deg): 7769.3 lm

%lum = 84.9%

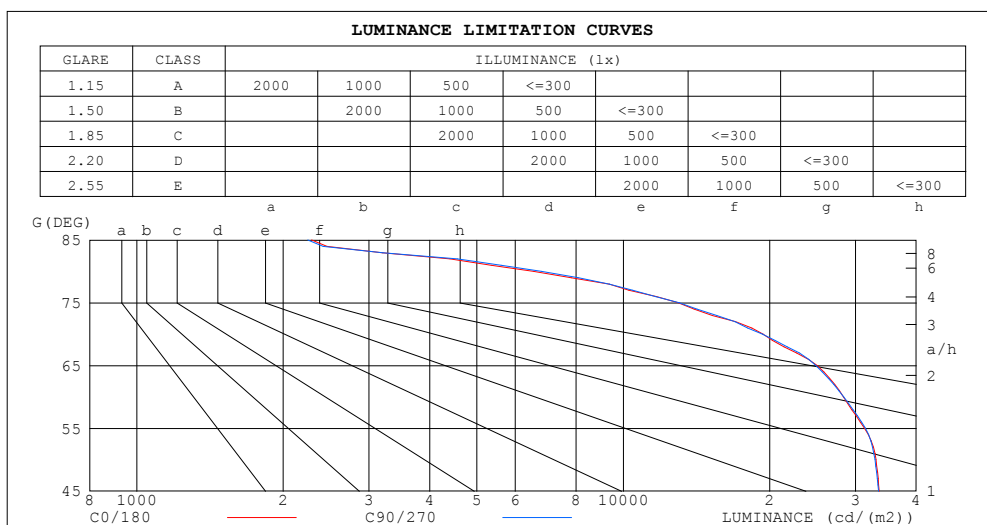
%lamp = 84.9%

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:CL
Test Date:15 December 2018

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:6.010m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:480.02V I:0.1352A P:60.060W PF:0.9256 Freq:59.98Hz Lamp Flux:9152.43x1 lm		
NAME: LED Explosion-proof Flood Light	TYPE:Floodlight	WEIGHT:N/A
SPEC.:60W/Lumileds 5050/3000K	DIM.: 265*265*150mm	SERIAL No.:N/A
MFR.: LDPI Inc.,Ltd	SUR.:N/A	Shielding Angle:N/A



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	2288	2246
80	6538	6786
75	12974	13021
70	19363	19325
65	25039	24862
60	28351	28390
55	31321	31484
50	33073	32910
45	33572	33474

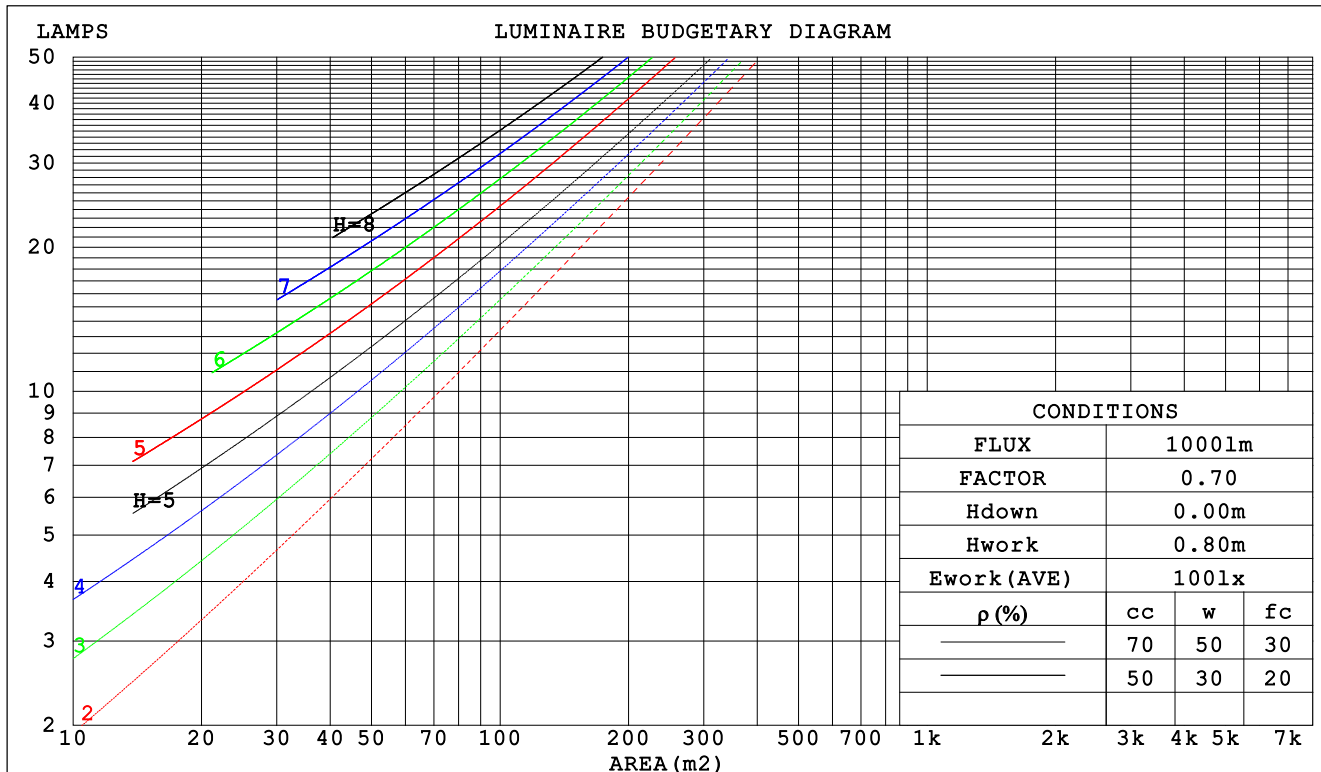
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:CL
Test Date:15 December 2018

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:6.010m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:480.02V I:0.1352A P:60.060W PF:0.9256 Freq:59.98Hz Lamp Flux:9152.43x1 lm		
NAME: LED Explosion-proof Flood Light	TYPE:Floodlight	WEIGHT:N/A
SPEC.:60W/Lumileds 5050/3000K	DIM.: 265*265*150mm	SERIAL No.:N/A
MFR.: LDPI Inc.,Ltd	SUR.:N/A	Shielding Angle:N/A

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	.00
1.0	1.06	1.02	.98	1.03	.90	.97	.99	.96	.94	.95	.93	.91	.92	.90	.88	.86
2.0	.93	.87	.81	.91	.85	.80	.88	.83	.78	.84	.80	.77	.81	.78	.75	.73
3.0	.82	.74	.68	.80	.73	.68	.77	.71	.66	.75	.70	.65	.72	.68	.64	.62
4.0	.73	.64	.58	.71	.64	.58	.69	.62	.57	.67	.61	.56	.65	.59	.55	.53
5.0	.65	.56	.50	.64	.56	.50	.62	.55	.49	.60	.54	.49	.58	.53	.48	.46
6.0	.59	.50	.44	.58	.49	.43	.56	.49	.43	.54	.48	.43	.53	.47	.42	.40
7.0	.53	.45	.39	.52	.44	.38	.51	.43	.38	.49	.43	.38	.48	.42	.38	.36
8.0	.48	.40	.34	.48	.40	.34	.46	.39	.34	.45	.39	.34	.44	.38	.34	.32
9.0	.44	.36	.31	.44	.36	.31	.43	.36	.31	.42	.35	.30	.41	.35	.30	.29
10.0	.41	.33	.28	.40	.33	.28	.39	.33	.28	.39	.32	.28	.38	.32	.28	.26



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:CL
 Test Date:15 December 2018

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
 Humidity:65.0%
 Test Distance:6.010m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:480.02V I:0.1352A P:60.060W PF:0.9256 Freq:59.98Hz Lamp Flux:9152.43x1 lm		
NAME: LED Explosion-proof Flood Light	TYPE:Floodlight	WEIGHT:N/A
SPEC.:60W/Lumileds 5050/3000K	DIM.: 265*265*150mm	SERIAL No.:N/A
MFR.: LDPI Inc.,Ltd	SUR.:N/A	Shielding Angle:N/A

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	.275	.157	.050	.268	.153	.049	.255	.146	.047	.243	.140	.045	.232	.134	.043		
2.0	.268	.147	.045	.262	.144	.044	.251	.139	.043	.240	.135	.042	.230	.130	.041		
3.0	.253	.135	.040	.248	.133	.040	.238	.129	.039	.228	.125	.038	.220	.122	.038		
4.0	.237	.123	.036	.232	.122	.036	.223	.118	.035	.215	.115	.035	.207	.113	.034		
5.0	.221	.113	.033	.217	.111	.032	.209	.109	.032	.202	.106	.032	.195	.104	.031		
6.0	.207	.104	.030	.203	.103	.030	.196	.100	.029	.189	.098	.029	.183	.096	.029		
7.0	.193	.096	.027	.190	.095	.027	.184	.093	.027	.178	.091	.027	.172	.089	.026		
8.0	.181	.089	.025	.178	.088	.025	.173	.086	.025	.167	.085	.024	.162	.083	.024		
9.0	.171	.083	.023	.168	.082	.023	.163	.080	.023	.158	.079	.023	.153	.078	.023		
10.0	.161	.077	.021	.158	.077	.021	.154	.075	.021	.149	.074	.021	.145	.073	.021		

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	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.178	.156	.137	.152	.134	.118	.104	.092	.082	.060	.053	.047	.019	.017	.015	
2.0	.169	.132	.101	.145	.114	.087	.099	.079	.061	.057	.046	.036	.018	.015	.012	
3.0	.161	.114	.077	.138	.099	.066	.095	.068	.047	.055	.040	.027	.018	.013	.009	
4.0	.154	.101	.060	.132	.087	.052	.091	.061	.037	.053	.036	.022	.017	.012	.007	
5.0	.147	.090	.049	.126	.078	.042	.087	.055	.030	.050	.032	.018	.016	.010	.006	
6.0	.140	.082	.040	.120	.071	.035	.083	.050	.025	.048	.029	.015	.016	.010	.005	
7.0	.133	.075	.034	.115	.065	.030	.079	.046	.021	.046	.027	.012	.015	.009	.004	
8.0	.127	.069	.029	.109	.060	.025	.076	.042	.018	.044	.025	.011	.014	.008	.004	
9.0	.121	.064	.026	.105	.056	.022	.072	.039	.016	.042	.023	.009	.014	.008	.003	
10.0	.116	.060	.023	.100	.052	.020	.069	.037	.014	.040	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:CL
Test Date:15 December 2018

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:6.010m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:480.02V I:0.1352A P:60.060W PF:0.9256 Freq:59.98Hz Lamp Flux:9152.43x1 lm										
NAME: LED Explosion-proof Flood Light					TYPE:Floodlight			WEIGHT:N/A		
SPEC.:60W/Lumileds 5050/3000K					DIM.: 265*265*150mm			SERIAL No.:N/A		
MFR.: LDPI Inc.,Ltd					SUR.:N/A			Shielding Angle:N/A		
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	17.2	18.7	17.5	18.9	19.1	17.3	18.7	17.5	18.9	19.1
3H	18.2	19.6	18.5	19.8	20.0	18.2	19.6	18.5	19.8	20.0
4H	18.4	19.7	18.7	19.9	20.2	18.4	19.7	18.7	19.9	20.2
6H	18.4	19.6	18.7	19.9	20.1	18.4	19.6	18.7	19.9	20.1
8H	18.3	19.5	18.7	19.8	20.1	18.4	19.5	18.7	19.8	20.1
12H	18.3	19.4	18.6	19.7	20.0	18.3	19.4	18.7	19.7	20.0
4H 2H	17.7	19.0	18.0	19.2	19.5	17.7	19.0	18.0	19.2	19.5
3H	18.8	19.9	19.1	20.2	20.5	18.8	19.9	19.2	20.2	20.5
4H	19.0	20.0	19.4	20.4	20.7	19.1	20.1	19.4	20.4	20.7
6H	19.1	20.0	19.5	20.3	20.7	19.1	20.0	19.5	20.3	20.7
8H	19.1	19.9	19.5	20.2	20.6	19.1	19.9	19.5	20.3	20.6
12H	19.0	19.8	19.4	20.1	20.6	19.0	19.8	19.5	20.2	20.6
8H 4H	19.1	19.9	19.5	20.3	20.6	19.1	19.9	19.5	20.3	20.7
6H	19.2	19.8	19.6	20.2	20.7	19.2	19.9	19.6	20.3	20.7
8H	19.1	19.7	19.6	20.2	20.6	19.2	19.8	19.6	20.2	20.6
12H	19.1	19.6	19.6	20.1	20.5	19.1	19.6	19.6	20.1	20.6
12H 4H	19.0	19.8	19.5	20.2	20.6	19.1	19.8	19.5	20.2	20.6
6H	19.1	19.7	19.6	20.2	20.6	19.2	19.8	19.6	20.2	20.6
8H	19.1	19.6	19.6	20.1	20.6	19.1	19.7	19.6	20.1	20.6
Variations with the observer position at spacings:										
S = 1.0H	+ 0.3 / - 0.4					+ 0.3 / - 0.4				
1.5H	+ 0.3 / - 0.6					+ 0.3 / - 0.5				
2.0H	+ 0.6 / - 0.4					+ 0.6 / - 0.5				

CIE Pub.117, 9152 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 7.7$)

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:CL
Test Date:15 December 2018

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:6.010m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:480.02V I:0.1352A P:60.060W PF:0.9256 Freq:59.98Hz Lamp Flux:9152.43x1 lm		
NAME: LED Explosion-proof Flood Light	TYPE:Floodlight	WEIGHT:N/A
SPEC.:60W/Lumileds 5050/3000K	DIM.: 265*265*150mm	SERIAL No.:N/A
MFR.: LDPI Inc.,Ltd	SUR.:N/A	Shielding Angle:N/A

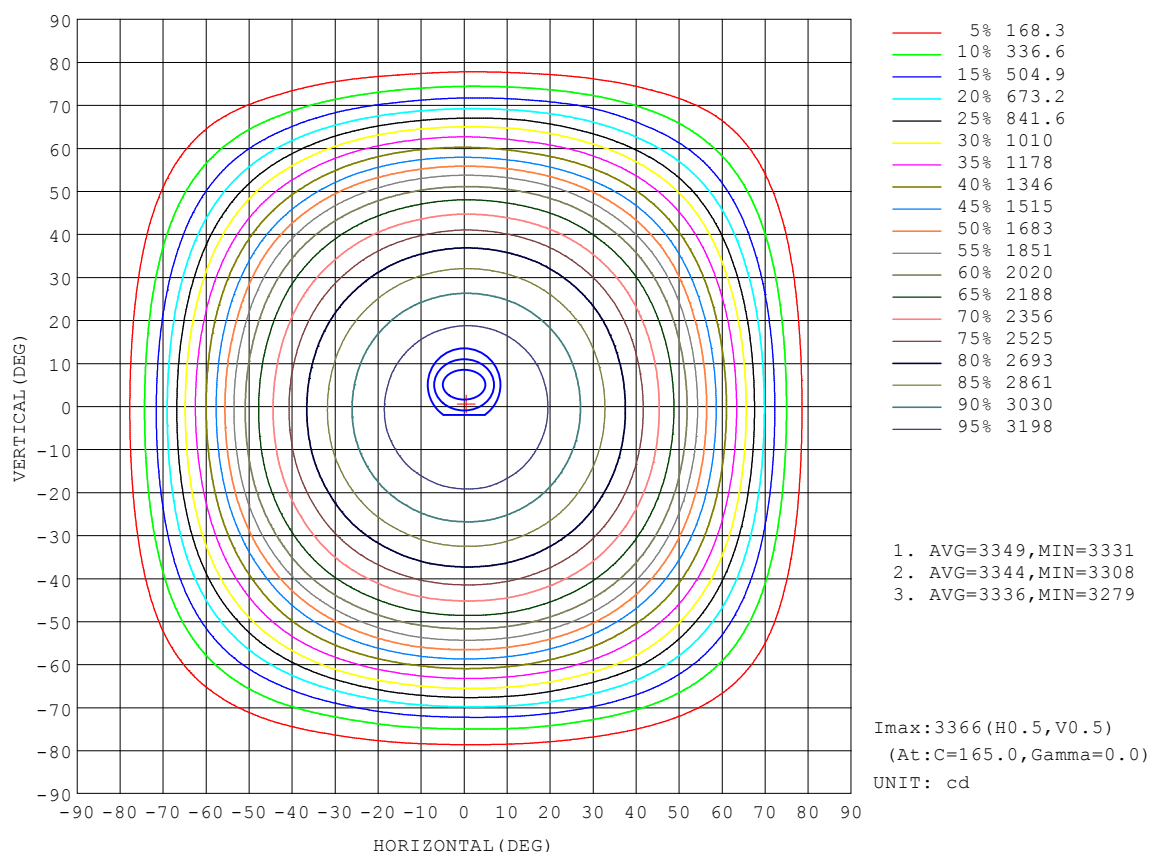
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	59	48	41	58	47	41	57	47	40	34
0.80	69	58	51	68	58	51	67	57	51	44
1.00	78	68	61	77	67	61	75	68	60	53
1.25	86	76	69	84	75	69	82	74	68	61
1.50	90	81	75	89	80	74	86	79	73	66
2.00	97	89	83	95	88	83	92	86	81	74
2.50	101	94	88	99	92	87	95	90	85	78
3.00	104	98	93	102	96	92	98	93	90	82
4.00	108	103	98	105	101	97	101	98	94	86
5.00	110	106	102	108	104	100	103	100	97	88
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNM = 1.25		

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:CL
 Test Date:15 December 2018

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
 Humidity:65.0%
 Test Distance:6.010m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:480.02V I:0.1352A P:60.060W PF:0.9256 Freq:59.98Hz Lamp Flux:9152.43x1 lm		
NAME: LED Explosion-proof Flood Light	TYPE:Floodlight	WEIGHT:N/A
SPEC.:60W/Lumileds 5050/3000K	DIM.: 265*265*150mm	SERIAL No.:N/A
MFR.: LDPI Inc.,Ltd	SUR.:N/A	Shielding Angle:N/A



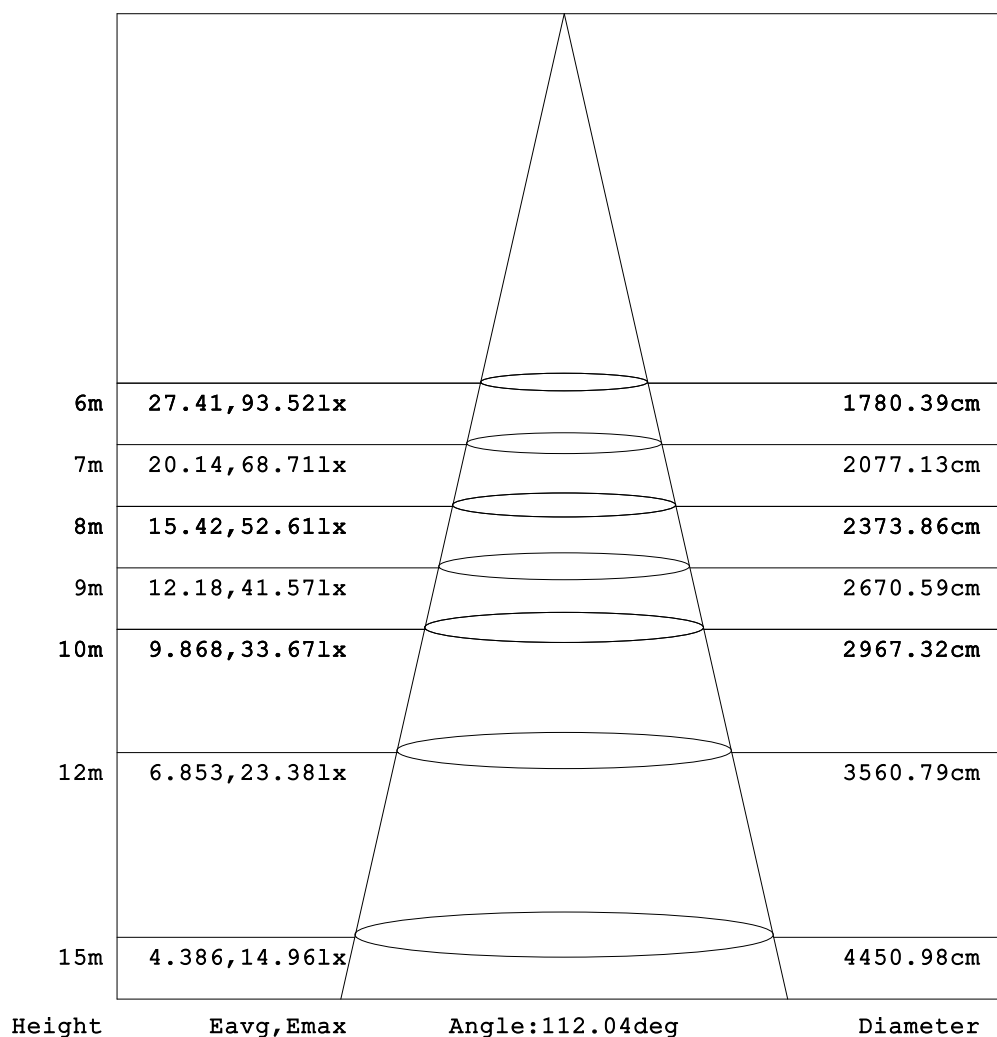
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:CL
Test Date:15 December 2018

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:6.010m [K=1.0000]
Remarks:

AAI Figure

Test:U:480.02V I:0.1352A P:60.060W PF:0.9256 Freq:59.98Hz Lamp Flux:9152.43x1 lm		
NAME: LED Explosion-proof Flood Light	TYPE:Floodlight	WEIGHT:N/A
SPEC.:60W/Lumileds 5050/3000K	DIM.: 265*265*150mm	SERIAL No.:N/A
MFR.: LDPI Inc.,Ltd	SUR.:N/A	Shielding Angle:N/A

Flux out:7351 lm



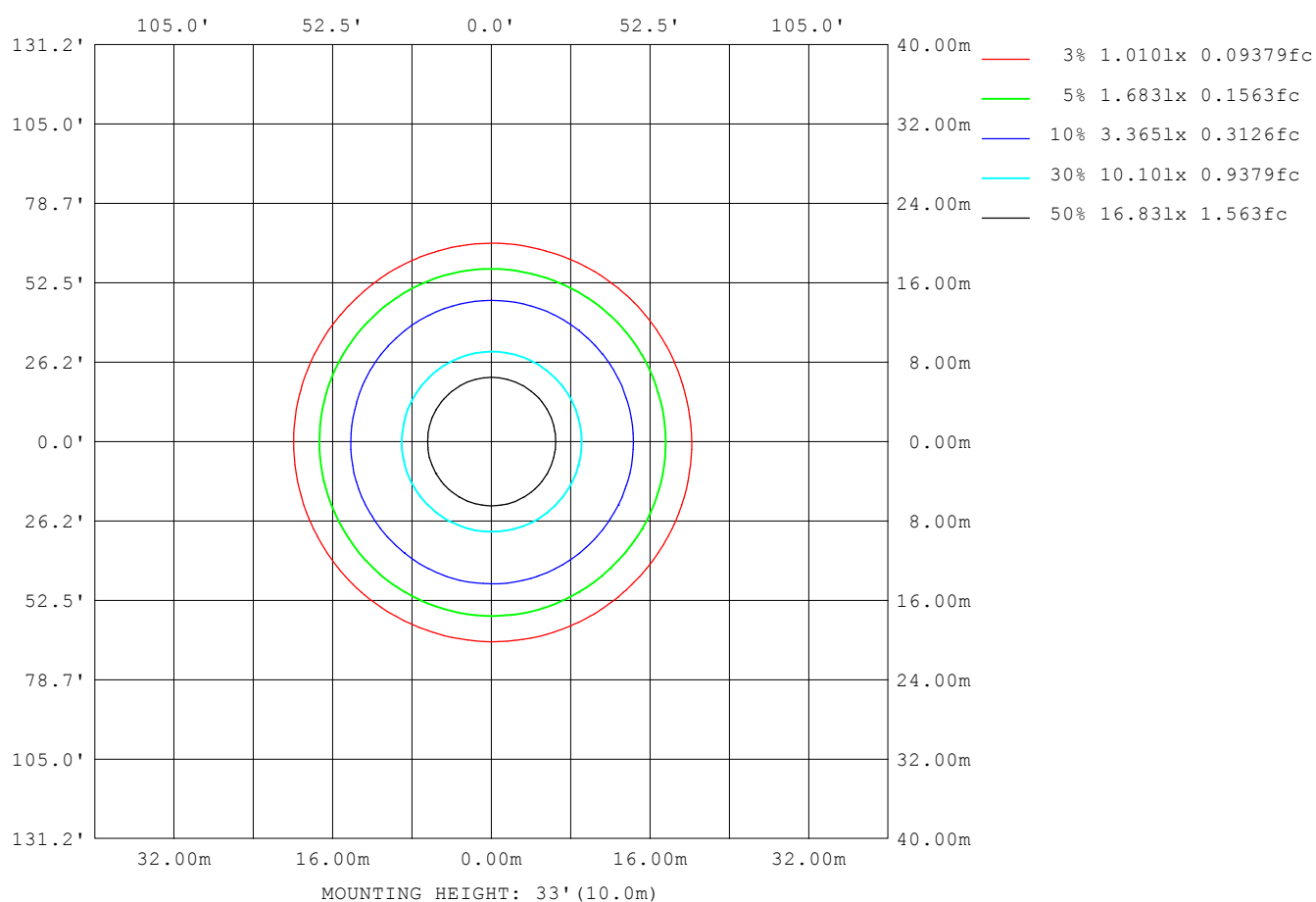
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:CL
Test Date:15 December 2018

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:6.010m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:480.02V I:0.1352A P:60.060W PF:0.9256 Freq:59.98Hz Lamp Flux:9152.43x1 lm		
NAME: LED Explosion-proof Flood Light	TYPE:Floodlight	WEIGHT:N/A
SPEC.:60W/Lumileds 5050/3000K	DIM.: 265*265*150mm	SERIAL No.:N/A
MFR.: LDPI Inc.,Ltd	SUR.:N/A	Shielding Angle:N/A



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:CL
Test Date:15 December 2018

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:6.010m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:480.02V I:0.1352A P:60.060W PF:0.9256 Freq:59.98Hz Lamp Flux:9152.43x1 lm		
NAME: LED Explosion-proof Flood Light	TYPE:Floodlight	WEIGHT:N/A
SPEC.:60W/Lumileds 5050/3000K	DIM.: 265*265*150mm	SERIAL No.:N/A
MFR.: LDPI Inc.,Ltd	SUR.:N/A	Shielding Angle:N/A

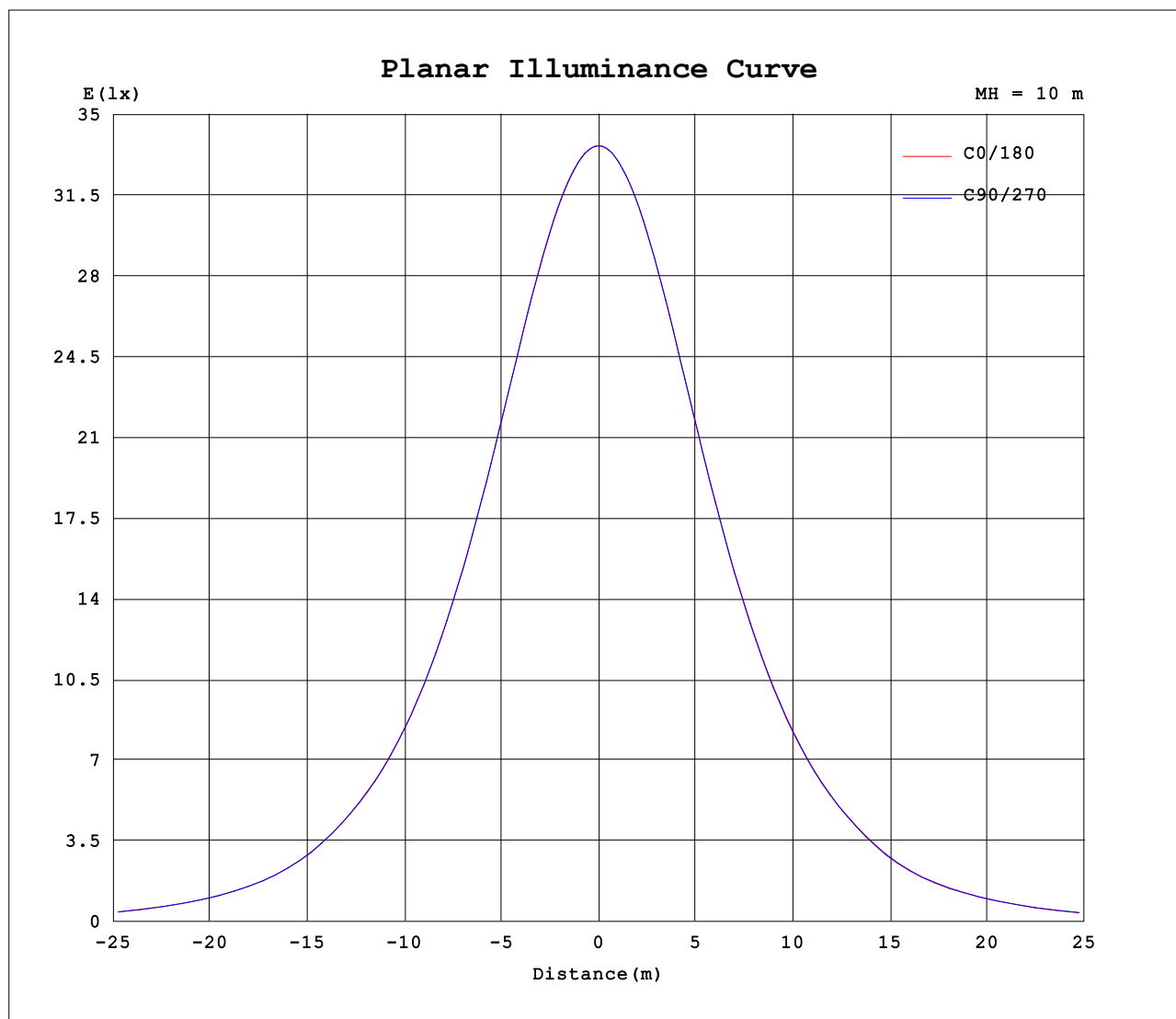
AvgL	cd/m2
L_0~180 (65) av	24334
L_0~180 (75) av	12251
L_0~180 (85) av	1969
L_90~270 (65) av	24346
L_90~270 (75) av	12429
L_90~270 (85) av	1879
L_45 (65) av	24292
L_45 (75) av	12215
L_45 (85) av	1909

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:CL
Test Date:15 December 2018

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:6.010m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: CL
 Test Date: 15 December 2018

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.366
 Humidity: 65.0%
 Test Distance: 6.010m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:480.02V I:0.1352A P:60.060W PF:0.9256 Freq:59.98Hz Lamp Flux:9152.43x1 lm		
NAME: LED Explosion-proof Flood Light	TYPE:Floodlight	WEIGHT:N/A
SPEC.:60W/Lumileds 5050/3000K	DIM.: 265*265*150mm	SERIAL No.:N/A
MFR.: LDPI Inc.,Ltd	SUR.:N/A	Shielding Angle:N/A

Table--1

UNIT: cd

[illegible]

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: CL
Test Date: 15 December 2018

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:6.010m [K=1.0000]
Remarks:

```

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:480.02V I:0.1352A P:60.060W PF:0.9256 Freq:59.98Hz Lamp Flux:9152.43x1 lm		
NAME: LED Explosion-proof Flood Light	TYPE:Floodlight	WEIGHT:N/A
SPEC.:60W/Lumileds 5050/3000K	DIM.: 265*265*150mm	SERIAL No.:N/A
MFR.: LDPI Inc.,Ltd	SUR.:N/A	Shielding Angle:N/A

Table--2

UNIT: cd

[illegible]

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: CL
Test Date: 15 December 2018

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:6.010m [K=1.0000]
Remarks:

```