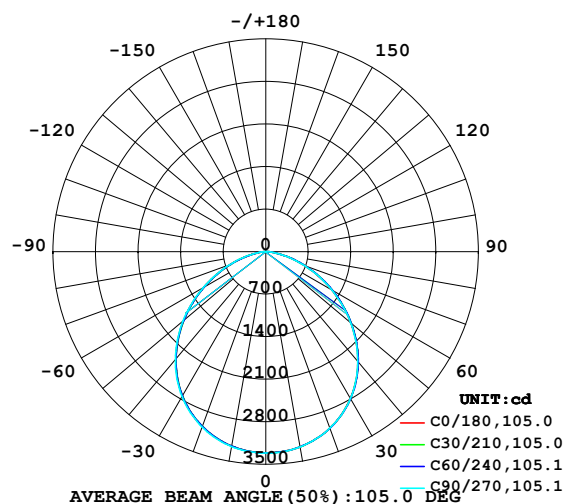


## LUMINAIRE PHOTOMETRIC TEST REPORT

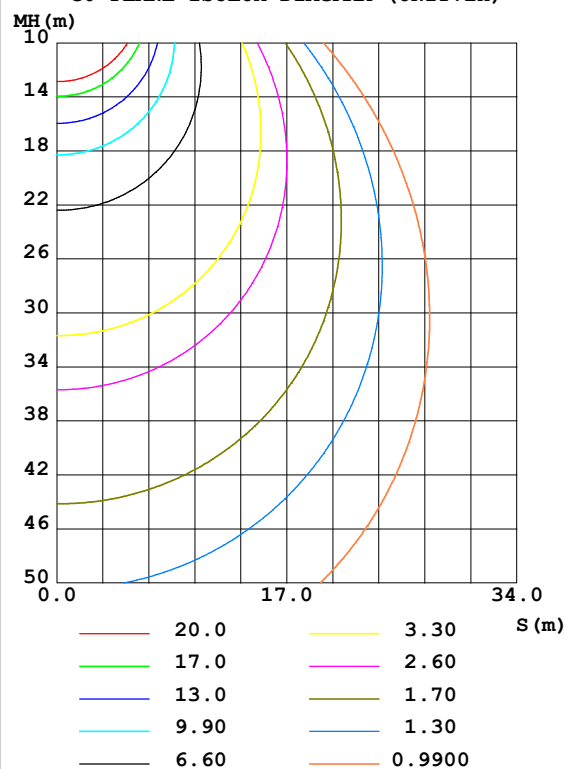
Test:U:479.95V I:0.1348A P:59.882W PF:0.9253 Freq:59.98Hz Lamp Flux:8549.72x1 lm		
NAME: LED Explosion-proof Flood Light	TYPE:Floodlight	WEIGHT:N/A
SPEC.:60W/Lumileds 5050/5000K	DIM.: 265*265*150mm	SERIAL No.:N/A
MFR.: LDPI Inc.,Ltd	SUR.:N/A	Shielding Angle:N/A

DATA OF LAMP		PHOTOMETRIC DATA Eff: 142.78 lm/W			
MODEL-FEL-D-60-V04-RZ-F-480		Imax(cd)	3319	S/MH(C0/180)	1.24
NOMINAL POWER(W)	60	LOR(%)	100.0	S/MH(C90/270)	1.24
RATED VOLTAGE(V)	480	TOTAL FLUX(lm)	8549.7	$\eta$ UP,DN(C0-180)	0.0,50.6
NOMINAL FLUX(lm)	8549.72	CIE CLASS	DIRECT	$\eta$ UP,DN(C180-360)	0.0,49.4
LAMPS INSIDE	1	$\eta$ up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	480	$\eta$ 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:11 December 2018

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  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:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum,lamp
10	3262	3261	3262	3260	3249	3247	3256	3265	0- 10	313.8	313.8	3.67,3.67
20	3090	3092	3090	3082	3062	3056	3070	3086	10- 20	898.5	1212	14.2,14.2
30	2788	2794	2788	2773	2746	2740	2757	2776	20- 30	1355	2567	30,30
40	2359	2371	2356	2335	2303	2297	2316	2340	30- 40	1604	4171	48.8,48.8
50	1829	1845	1827	1802	1769	1757	1780	1807	40- 50	1601	5772	67.5,67.5
60	1247	1265	1247	1214	1184	1171	1194	1226	50- 60	1351	7123	83.3,83.3
70	686.3	701.3	684.9	652.9	626.1	613.6	636.0	662.4	60- 70	922.4	8046	94.1,94.1
80	215.5	225.3	210.6	193.1	168.1	159.5	176.3	193.4	70- 80	435.9	8482	99.2,99.2
90	3.446	3.642	3.371	3.032	2.507	2.498	2.498	2.468	80- 90	68.09	8550	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): 4988.3 lm

%lum = 58.3%

%lamp = 58.3%

Conical surface Flux(120deg): 7123.3 lm

%lum = 83.3%

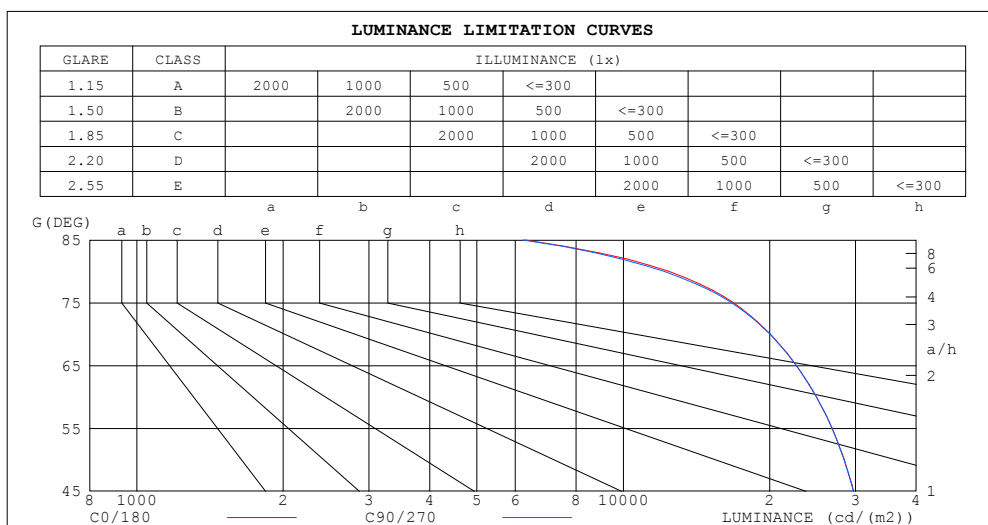
%lamp = 83.3%

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:CL  
 Test Date:11 December 2018

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  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:479.95V I:0.1348A P:59.882W PF:0.9253 Freq:59.98Hz Lamp Flux:8549.72x1 lm		
NAME: LED Explosion-proof Flood Light	TYPE:Floodlight	WEIGHT:N/A
SPEC.:60W/Lumileds 5050/5000K	DIM.: 265*265*150mm	SERIAL No.:N/A
MFR.: LDPI Inc.,Ltd	SUR.:N/A	Shielding Angle:N/A



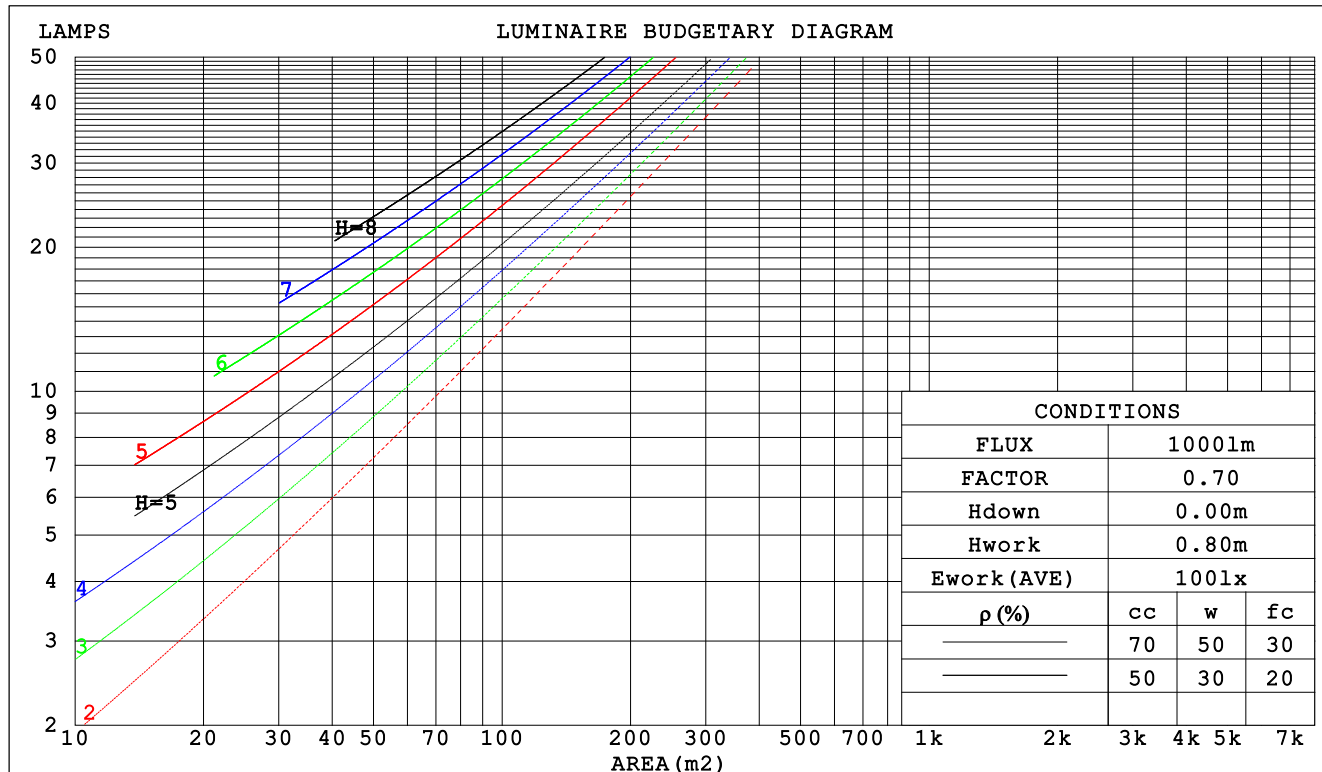
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:CL  
Test Date:11 December 2018

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  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:479.95V I:0.1348A P:59.882W PF:0.9253 Freq:59.98Hz Lamp Flux:8549.72x1 lm		
NAME: LED Explosion-proof Flood Light	TYPE:Floodlight	WEIGHT:N/A
SPEC.:60W/Lumileds 5050/5000K	DIM.: 265*265*150mm	SERIAL No.:N/A
MFR.: LDPI Inc.,Ltd	SUR.:N/A	Shielding Angle:N/A

$\rho_{cc}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	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	1.05	1.01	.98	1.03	.99	.96	.99	.96	.93	.95	.93	.90	.91	.89	.88	.86
2.0	.92	.86	.81	.91	.85	.80	.87	.82	.78	.84	.80	.76	.81	.77	.74	.72
3.0	.82	.74	.68	.80	.73	.67	.77	.71	.66	.74	.69	.65	.72	.67	.64	.62
4.0	.73	.64	.58	.71	.63	.57	.69	.62	.57	.67	.61	.56	.64	.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	.50	.44	.56	.49	.43	.54	.48	.43	.53	.47	.42	.40
7.0	.53	.45	.39	.53	.44	.39	.51	.44	.38	.50	.43	.38	.48	.42	.38	.36
8.0	.49	.40	.35	.48	.40	.35	.47	.39	.34	.45	.39	.34	.44	.38	.34	.32
9.0	.45	.37	.31	.44	.36	.31	.43	.36	.31	.42	.35	.31	.41	.35	.31	.29
10.0	.41	.34	.28	.41	.33	.28	.40	.33	.28	.39	.33	.28	.38	.32	.28	.26



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:CL  
 Test Date:11 December 2018

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  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:479.95V I:0.1348A P:59.882W PF:0.9253 Freq:59.98Hz Lamp Flux:8549.72x1 lm		
NAME: LED Explosion-proof Flood Light	TYPE:Floodlight	WEIGHT:N/A
SPEC.:60W/Lumileds 5050/5000K	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	.284	.161	.051	.277	.158	.050	.263	.151	.048	.251	.145	.047	.240	.139	.045	
2.0	.273	.149	.046	.266	.147	.045	.255	.142	.044	.244	.137	.043	.234	.133	.042	
3.0	.255	.136	.041	.250	.134	.040	.240	.130	.040	.230	.126	.039	.222	.123	.038	
4.0	.238	.124	.036	.233	.122	.036	.224	.119	.035	.216	.116	.035	.208	.113	.034	
5.0	.221	.113	.033	.217	.112	.032	.209	.109	.032	.202	.106	.032	.195	.104	.031	
6.0	.206	.103	.030	.203	.102	.029	.196	.100	.029	.189	.098	.029	.183	.096	.029	
7.0	.193	.095	.027	.190	.094	.027	.183	.093	.027	.177	.091	.026	.172	.089	.026	
8.0	.181	.088	.025	.178	.088	.025	.172	.086	.025	.167	.084	.024	.162	.083	.024	
9.0	.170	.082	.023	.167	.081	.023	.162	.080	.023	.157	.079	.023	.153	.078	.022	
10.0	.160	.077	.021	.158	.076	.021	.153	.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	.136	.153	.134	.117	.104	.092	.081	.060	.053	.047	.019	.017	.015	
2.0	.170	.132	.100	.145	.114	.087	.100	.079	.060	.057	.046	.035	.018	.015	.012	
3.0	.162	.114	.076	.139	.099	.066	.095	.068	.046	.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	.048	.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	.026	.076	.042	.018	.044	.025	.011	.014	.008	.004	
9.0	.121	.064	.026	.104	.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:11 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:479.95V I:0.1348A P:59.882W PF:0.9253 Freq:59.98Hz Lamp Flux:8549.72x1 lm										
NAME: LED Explosion-proof Flood Light					TYPE:Floodlight			WEIGHT:N/A		
SPEC.:60W/Lumileds 5050/5000K					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	16.8	18.3	17.1	18.5	18.7	16.8	18.3	17.1	18.5	18.7
3H	18.0	19.4	18.3	19.6	19.8	18.0	19.4	18.3	19.6	19.8
4H	18.4	19.7	18.7	19.9	20.2	18.4	19.7	18.7	19.9	20.2
6H	18.6	19.8	18.9	20.1	20.4	18.6	19.8	18.9	20.1	20.4
8H	18.6	19.8	19.0	20.1	20.4	18.6	19.8	19.0	20.1	20.4
12H	18.6	19.7	19.0	20.0	20.3	18.6	19.7	19.0	20.0	20.3
4H 2H	17.4	18.6	17.7	18.9	19.1	17.4	18.6	17.7	18.9	19.1
3H	18.7	19.8	19.1	20.1	20.4	18.7	19.8	19.1	20.1	20.4
4H	19.2	20.2	19.6	20.5	20.9	19.2	20.2	19.6	20.5	20.9
6H	19.5	20.4	19.9	20.7	21.1	19.5	20.4	19.9	20.7	21.1
8H	19.6	20.4	20.0	20.8	21.1	19.5	20.4	20.0	20.7	21.1
12H	19.6	20.3	20.0	20.7	21.1	19.5	20.3	20.0	20.7	21.1
8H 4H	19.4	20.2	19.8	20.6	21.0	19.4	20.2	19.8	20.6	21.0
6H	19.8	20.5	20.2	20.9	21.3	19.8	20.4	20.2	20.8	21.3
8H	19.9	20.5	20.3	20.9	21.3	19.8	20.5	20.3	20.9	21.3
12H	19.9	20.4	20.4	20.9	21.3	19.9	20.4	20.4	20.8	21.3
12H 4H	19.4	20.1	19.8	20.5	20.9	19.4	20.1	19.8	20.5	20.9
6H	19.8	20.4	20.2	20.8	21.3	19.8	20.4	20.2	20.8	21.2
8H	19.9	20.4	20.4	20.9	21.3	19.9	20.4	20.4	20.8	21.3
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
1.5H	+ 0.2 / - 0.4					+ 0.2 / - 0.4				
2.0H	+ 0.3 / - 0.4					+ 0.3 / - 0.4				

CIE Pub.117, 8550 lm Total Lamp Luminous Flux Correct ( $8\log(F/F_0) = 7.5$ )

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:CL  
 Test Date:11 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:479.95V I:0.1348A P:59.882W PF:0.9253 Freq:59.98Hz Lamp Flux:8549.72x1 lm		
NAME: LED Explosion-proof Flood Light	TYPE:Floodlight	WEIGHT:N/A
SPEC.:60W/Lumileds 5050/5000K	DIM.: 265*265*150mm	SERIAL No.:N/A
MFR.: LDPI Inc.,Ltd	SUR.:N/A	Shielding Angle:N/A

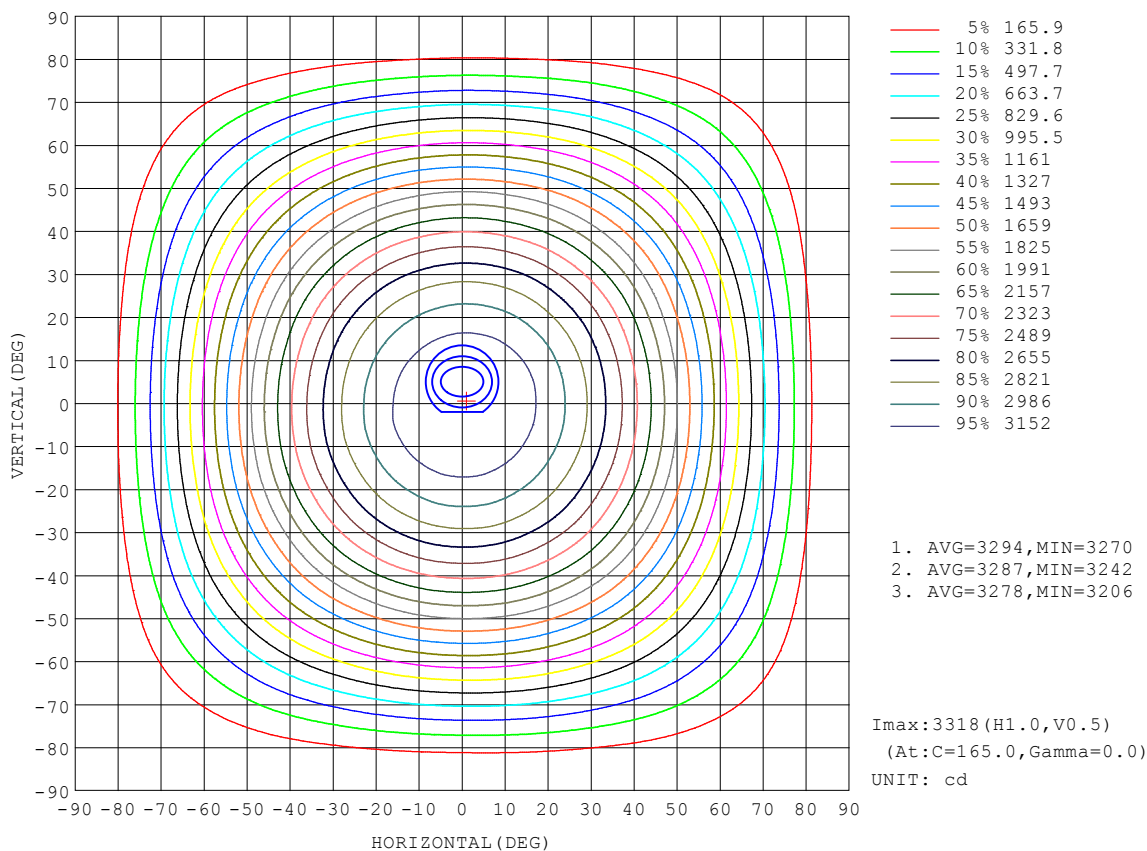
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	60	49	42	59	48	42	58	48	42	35
0.80	70	59	52	69	58	52	67	58	51	45
1.00	78	68	61	77	67	61	75	69	60	53
1.25	85	76	69	84	75	68	81	73	68	61
1.50	90	81	75	89	80	74	86	78	73	66
2.00	97	89	83	95	88	82	92	86	81	73
2.50	101	93	88	99	92	87	95	89	85	77
3.00	104	97	92	102	96	91	98	93	89	81
4.00	107	102	98	105	101	97	101	97	94	85
5.00	110	105	102	107	103	100	103	100	97	88
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:CL  
 Test Date:11 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:479.95V I:0.1348A P:59.882W PF:0.9253 Freq:59.98Hz Lamp Flux:8549.72x1 lm		
NAME: LED Explosion-proof Flood Light	TYPE:Floodlight	WEIGHT:N/A
SPEC.:60W/Lumileds 5050/5000K	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:11 December 2018

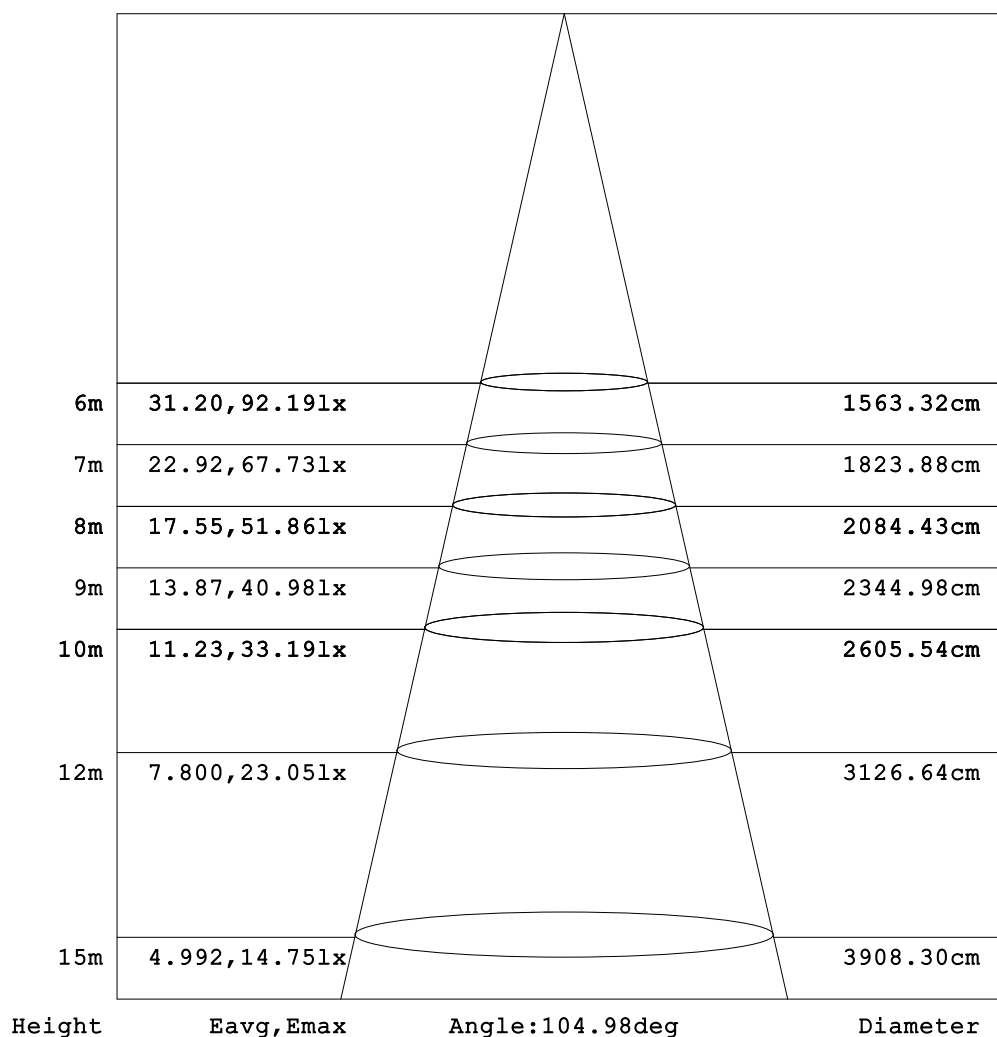
γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity:65.0%  
Test Distance:6.010m [K=1.0000]  
Remarks:



## AAI Figure

Test:U:479.95V I:0.1348A P:59.882W PF:0.9253 Freq:59.98Hz Lamp Flux:8549.72x1 lm		
NAME: LED Explosion-proof Flood Light	TYPE:Floodlight	WEIGHT:N/A
SPEC.:60W/Lumileds 5050/5000K	DIM.: 265*265*150mm	SERIAL No.:N/A
MFR.: LDPI Inc.,Ltd	SUR.:N/A	Shielding Angle:N/A

Flux out:6214 lm



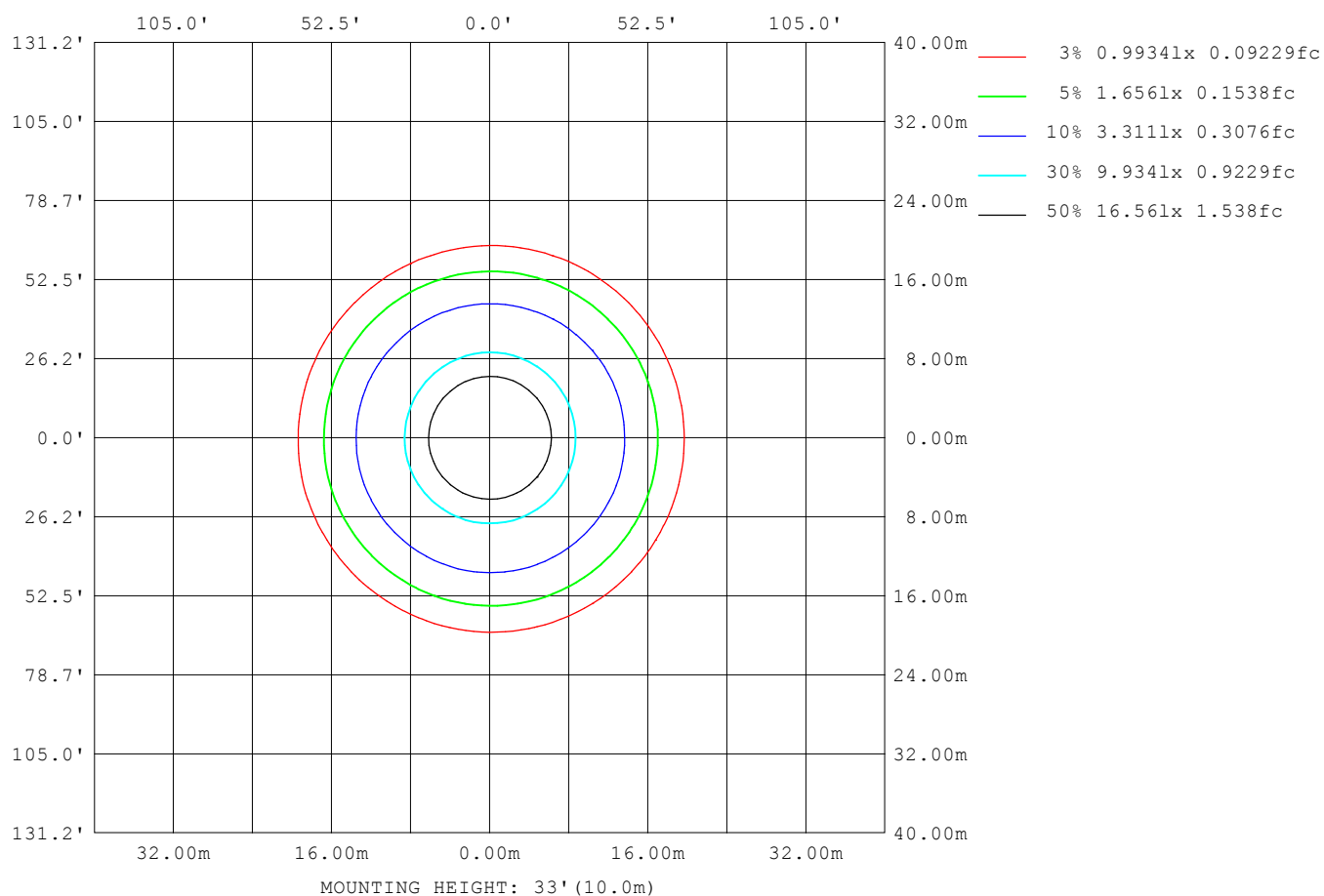
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:CL  
 Test Date:11 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:479.95V I:0.1348A P:59.882W PF:0.9253 Freq:59.98Hz Lamp Flux:8549.72x1 lm		
NAME: LED Explosion-proof Flood Light	TYPE:Floodlight	WEIGHT:N/A
SPEC.:60W/Lumileds 5050/5000K	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:11 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

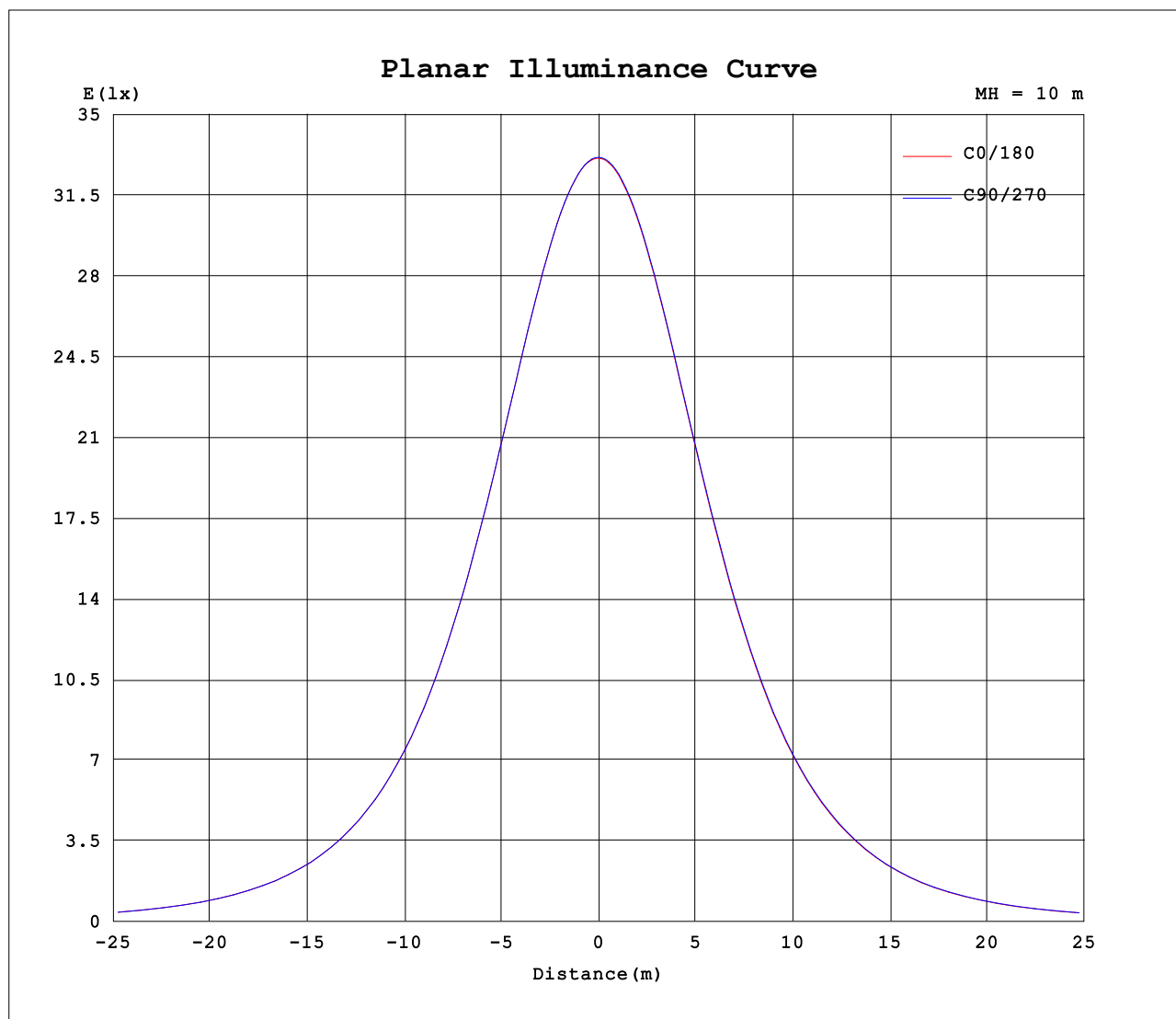
Test:U:479.95V I:0.1348A P:59.882W PF:0.9253 Freq:59.98Hz Lamp Flux:8549.72x1 lm		
NAME: LED Explosion-proof Flood Light	TYPE:Floodlight	WEIGHT:N/A
SPEC.:60W/Lumileds 5050/5000K	DIM.: 265*265*150mm	SERIAL No.:N/A
MFR.: LDPI Inc.,Ltd	SUR.:N/A	Shielding Angle:N/A

AvgL	cd/m2
L_0~180 (65) av	21940
L_0~180 (75) av	15734
L_0~180 (85) av	5042
L_90~270 (65) av	22059
L_90~270 (75) av	15858
L_90~270 (85) av	5001
L_45 (65) av	22009
L_45 (75) av	15751
L_45 (85) av	4925

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:CL  
Test Date:11 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: 11 December 2018

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity: 65.0%  
Test Distance: 6.010m [K=1.0000]  
Remarks:

```

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:479.95V I:0.1348A P:59.882W PF:0.9253 Freq:59.98Hz Lamp Flux:8549.72x1 lm		
NAME: LED Explosion-proof Flood Light	TYPE:Floodlight	WEIGHT:N/A
SPEC.:60W/Lumileds 5050/5000K	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: 11 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:

```