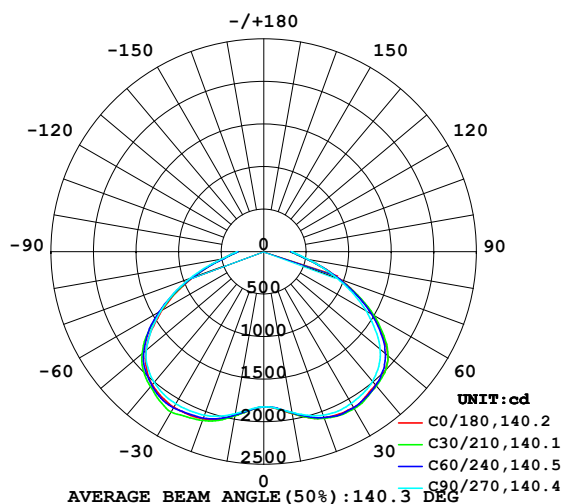


## LUMINAIRE PHOTOMETRIC TEST REPORT

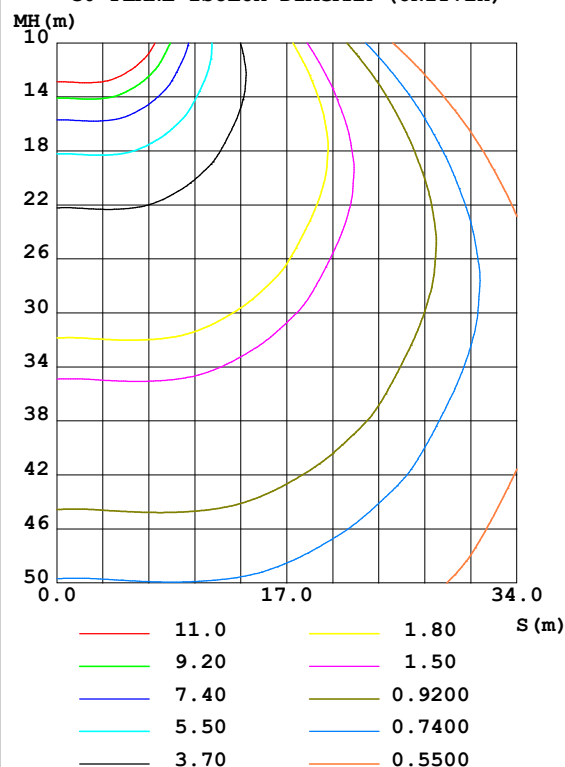
Test:U:480.26V I:0.1348A P:59.917W PF:0.9258 Freq:59.98Hz Lamp Flux:8293.65x1 lm		
NAME: LED Explosion-proof Flood Light	TYPE:Floodlight	WEIGHT:N/A
SPEC.:60W/Lumileds 5050/5000K	DIM.: 265*265*150mm	SERIAL No.:N/A
MFR.: LDPI Inc.,Ltd	SUR.:N/A	Shielding Angle:N/A

DATA OF LAMP		PHOTOMETRIC DATA Eff: 138.42 lm/W			
MODEL	NJ0101-D-60-V04-RZ-DL01-480	Imax(cd)	2177	S/MH(C0/180)	1.68
NOMINAL POWER(W)	60	LOR(%)	100.0	S/MH(C90/270)	1.67
RATED VOLTAGE(V)	480	TOTAL FLUX(lm)	8293.7	$\eta$ UP,DN(C0-180)	0.0,49.8
NOMINAL FLUX(lm)	8293.65	CIE CLASS	DIRECT	$\eta$ UP,DN(C180-360)	0.0,50.2
LAMPS INSIDE	1	$\eta$ up(%)	0.0	CIBSE SHR NOM	1.75
TEST VOLTAGE(V)	480	$\eta$ down(%)	100.0	CIBSE SHR MAX	1.75

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	1932	1925	1919	1928	1956	1958	1933	1924	0- 10	179.9	179.9	2.17,2.17
20	2078	2084	2044	2025	2091	2102	2045	2048	10- 20	571.2	751.1	9.06,9.06
30	2114	2132	2058	1999	2113	2164	2067	2094	20- 30	965.0	1716	20.7,20.7
40	2046	2064	1990	1924	2041	2068	2004	2035	30- 40	1296	3012	36.3,36.3
50	1903	1892	1785	1691	1809	1864	1803	1815	40- 50	1498	4510	54.4,54.4
60	1470	1488	1389	1309	1381	1407	1401	1414	50- 60	1455	5965	71.9,71.9
70	953.9	948.0	919.8	884.5	883.0	885.8	925.9	967.3	60- 70	1153	7118	85.8,85.8
80	515.3	517.7	528.8	522.2	495.2	471.9	496.0	525.0	70- 80	741.7	7859	94.8,94.8
90	314.1	313.1	329.1	331.5	311.3	297.2	312.4	323.2	80- 90	434.2	8294	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): 3747.2 lm

%lum = 45.2%

%lamp = 45.2%

Conical surface Flux(120deg): 5964.6 lm

%lum = 71.9%

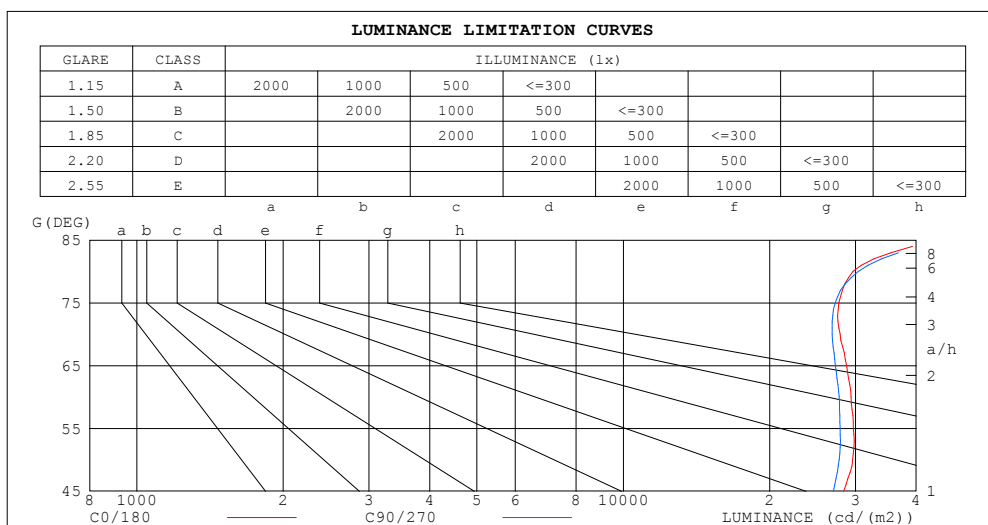
%lamp = 71.9%

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:480.26V I:0.1348A P:59.917W PF:0.9258 Freq:59.98Hz Lamp Flux:8293.65x1 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



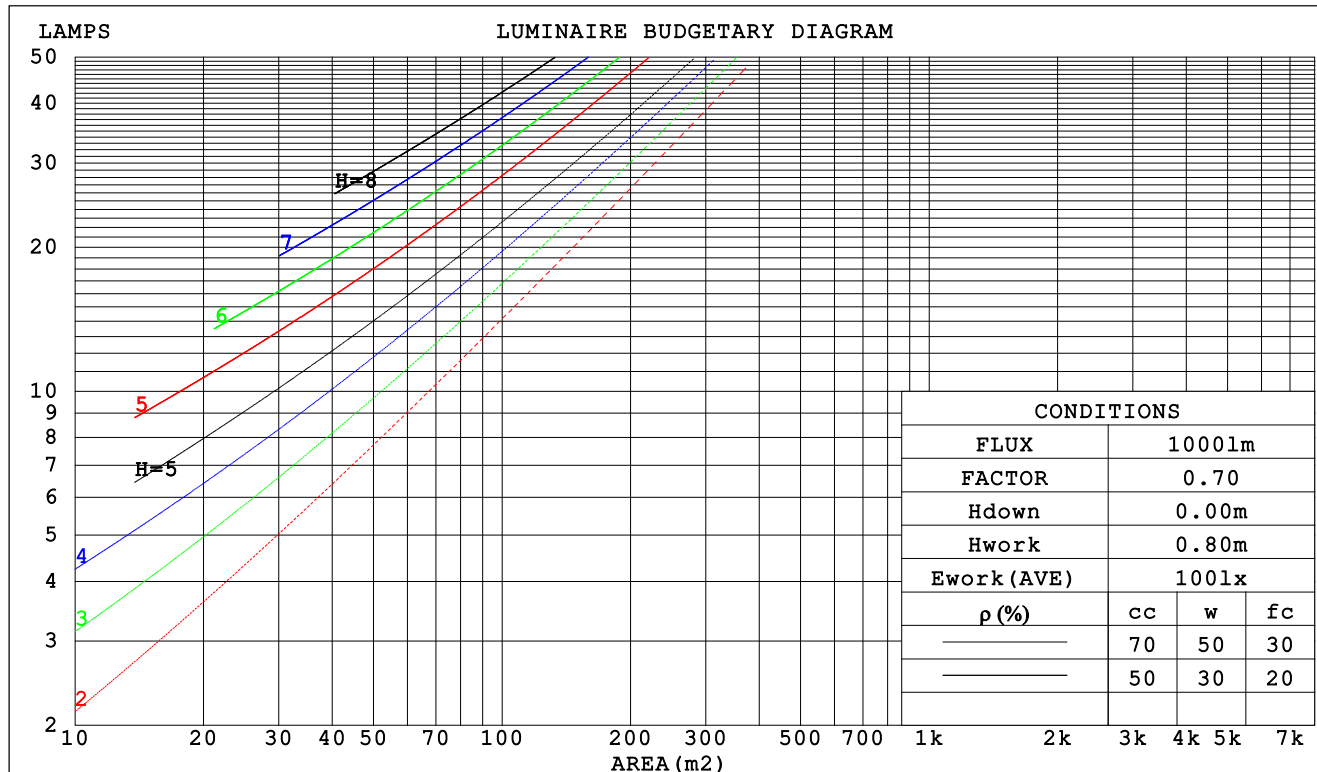
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:CL  
Test Date:11 December 2018

$\gamma$  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:480.26V I:0.1348A P:59.917W PF:0.9258 Freq:59.98Hz Lamp Flux:8293.65x1 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	1.00
1.0	1.01	.96	.91	.99	.94	.90	.94	.91	.87	.90	.87	.84	.87	.84	.82	.80
2.0	.87	.79	.72	.85	.78	.72	.81	.75	.70	.78	.73	.68	.75	.70	.67	.64
3.0	.75	.66	.59	.74	.65	.58	.70	.63	.57	.68	.61	.56	.65	.60	.55	.53
4.0	.66	.56	.49	.64	.56	.49	.62	.54	.48	.59	.53	.47	.57	.51	.46	.44
5.0	.58	.49	.41	.57	.48	.41	.55	.47	.41	.53	.46	.40	.51	.45	.40	.37
6.0	.52	.42	.36	.51	.42	.35	.49	.41	.35	.47	.40	.35	.46	.39	.34	.32
7.0	.47	.38	.31	.46	.37	.31	.44	.36	.31	.43	.36	.30	.42	.35	.30	.28
8.0	.42	.33	.27	.42	.33	.27	.40	.33	.27	.39	.32	.27	.38	.31	.27	.25
9.0	.39	.30	.24	.38	.30	.24	.37	.29	.24	.36	.29	.24	.35	.28	.24	.22
10.0	.36	.27	.22	.35	.27	.22	.34	.27	.22	.33	.26	.21	.32	.26	.21	.19



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:480.26V I:0.1348A P:59.917W PF:0.9258 Freq:59.98Hz Lamp Flux:8293.65x1 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	.364	.207	.066	.357	.203	.065	.343	.197	.063	.331	.191	.061	.319	.185	.060		
2.0	.328	.180	.055	.321	.177	.055	.309	.172	.053	.298	.167	.052	.288	.163	.051		
3.0	.297	.158	.047	.291	.156	.047	.281	.152	.046	.271	.148	.045	.261	.145	.045		
4.0	.270	.140	.041	.265	.139	.041	.256	.136	.041	.247	.133	.040	.239	.130	.040		
5.0	.247	.126	.037	.243	.125	.036	.235	.122	.036	.227	.120	.036	.219	.117	.035		
6.0	.228	.114	.033	.224	.113	.033	.216	.111	.032	.209	.109	.032	.203	.107	.032		
7.0	.211	.104	.030	.207	.103	.029	.201	.101	.029	.194	.100	.029	.188	.098	.029		
8.0	.196	.096	.027	.193	.095	.027	.187	.093	.027	.181	.092	.026	.176	.090	.026		
9.0	.183	.088	.025	.180	.088	.025	.175	.086	.024	.170	.085	.024	.165	.084	.024		
10.0	.171	.082	.023	.169	.082	.023	.164	.080	.023	.159	.079	.022	.155	.078	.022		

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	.184	.156	.130	.157	.134	.112	.108	.092	.077	.062	.053	.045	.020	.017	.015	
2.0	.177	.132	.094	.152	.113	.081	.104	.078	.056	.060	.046	.033	.019	.015	.011	
3.0	.170	.114	.070	.145	.099	.061	.100	.069	.043	.058	.040	.025	.019	.013	.008	
4.0	.162	.101	.055	.139	.088	.048	.096	.061	.034	.055	.036	.020	.018	.012	.007	
5.0	.154	.091	.045	.133	.079	.039	.091	.055	.027	.053	.032	.016	.017	.011	.005	
6.0	.147	.083	.037	.126	.072	.032	.087	.050	.023	.051	.030	.014	.016	.010	.004	
7.0	.140	.076	.032	.120	.066	.028	.083	.046	.019	.048	.027	.012	.016	.009	.004	
8.0	.133	.070	.027	.115	.061	.024	.079	.043	.017	.046	.025	.010	.015	.008	.003	
9.0	.127	.066	.024	.109	.057	.021	.076	.040	.015	.044	.024	.009	.014	.008	.003	
10.0	.121	.061	.022	.104	.053	.019	.072	.037	.013	.042	.022	.008	.014	.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:480.26V I:0.1348A P:59.917W PF:0.9258 Freq:59.98Hz Lamp Flux:8293.65x1 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	17.7	19.3	18.0	19.5	19.7	17.5	19.1	17.7	19.3	19.5
3H	19.3	20.9	19.6	21.1	21.4	19.1	20.7	19.4	20.9	21.1
4H	20.1	21.5	20.4	21.8	22.0	19.9	21.3	20.2	21.6	21.9
6H	20.7	22.1	21.1	22.4	22.7	20.6	22.0	20.9	22.3	22.5
8H	21.1	22.4	21.4	22.7	23.0	21.0	22.3	21.3	22.6	22.9
12H	21.4	22.7	21.8	23.0	23.3	21.4	22.7	21.8	23.0	23.3
4H 2H	18.3	19.8	18.7	20.1	20.3	18.2	19.6	18.5	19.9	20.2
3H	20.2	21.5	20.5	21.8	22.1	20.0	21.3	20.4	21.6	21.9
4H	21.0	22.2	21.4	22.5	22.9	20.9	22.1	21.3	22.4	22.8
6H	21.9	22.9	22.3	23.3	23.6	21.8	22.9	22.2	23.2	23.6
8H	22.3	23.3	22.7	23.6	24.0	22.3	23.2	22.7	23.6	24.0
12H	22.8	23.7	23.2	24.1	24.5	22.8	23.7	23.2	24.1	24.5
8H 4H	21.4	22.4	21.8	22.7	23.1	21.3	22.3	21.7	22.6	23.0
6H	22.4	23.3	22.9	23.7	24.1	22.4	23.2	22.8	23.6	24.0
8H	23.0	23.7	23.5	24.2	24.6	23.0	23.7	23.5	24.2	24.6
12H	23.7	24.3	24.2	24.8	25.3	23.7	24.4	24.2	24.8	25.3
12H 4H	21.4	22.3	21.9	22.7	23.1	21.3	22.2	21.8	22.6	23.0
6H	22.6	23.3	23.0	23.7	24.2	22.5	23.3	23.0	23.7	24.1
8H	23.2	23.9	23.7	24.3	24.8	23.2	23.9	23.7	24.3	24.8
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.4				
2.0H	+ 0.2 / - 0.4					+ 0.2 / - 0.5				

CIE Pub.117, 8294 lm Total Lamp Luminous Flux Correct ( $8\log(F/F_0) = 7.3$ )

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:480.26V I:0.1348A P:59.917W PF:0.9258 Freq:59.98Hz Lamp Flux:8293.65x1 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

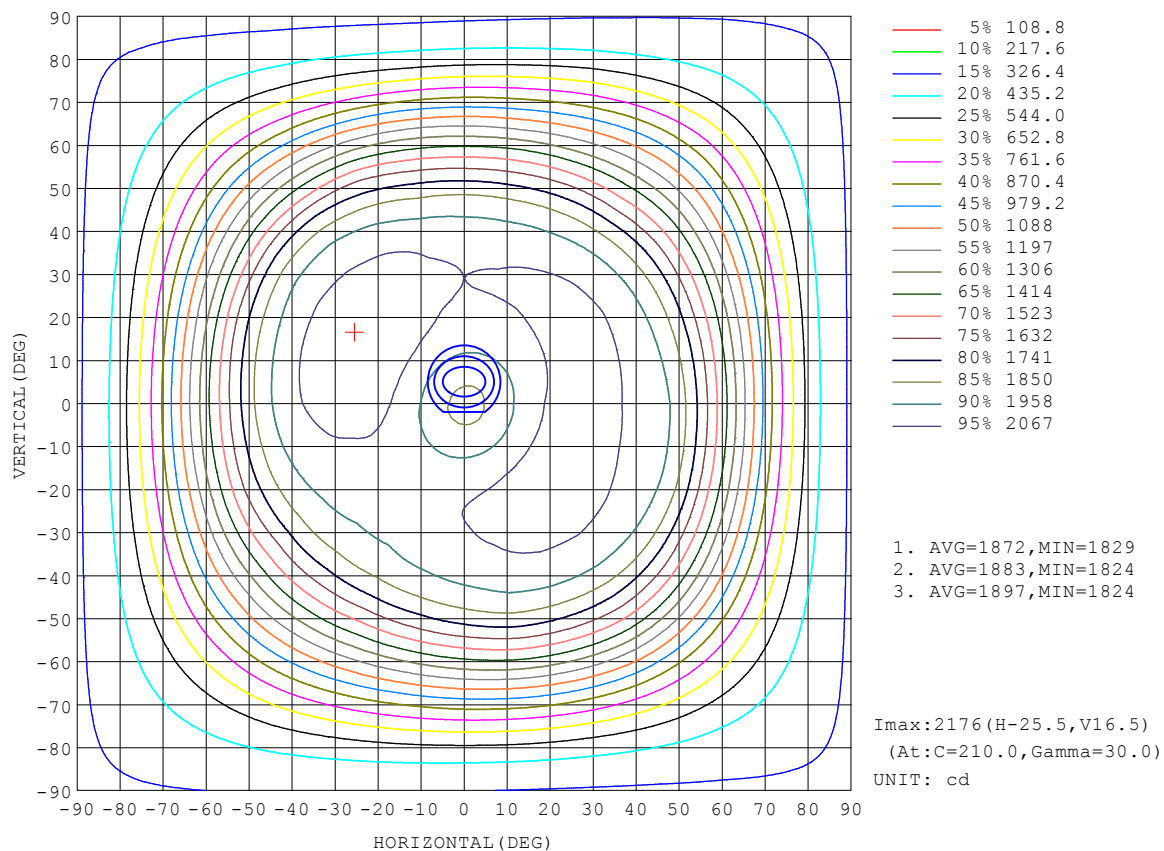
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	53	40	33	52	40	33	51	39	32	26
0.80	63	50	42	62	50	42	60	49	42	34
1.00	71	59	51	70	59	51	68	60	50	43
1.25	79	67	59	77	66	59	74	65	58	50
1.50	84	73	65	82	72	65	79	70	63	55
2.00	91	82	74	89	80	74	86	78	72	63
2.50	96	87	80	93	85	79	89	83	77	68
3.00	99	91	85	97	90	84	93	87	82	73
4.00	104	97	92	101	95	90	97	92	87	78
5.00	106	101	96	104	99	94	99	95	91	81
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:480.26V I:0.1348A P:59.917W PF:0.9258 Freq:59.98Hz Lamp Flux:8293.65x1 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

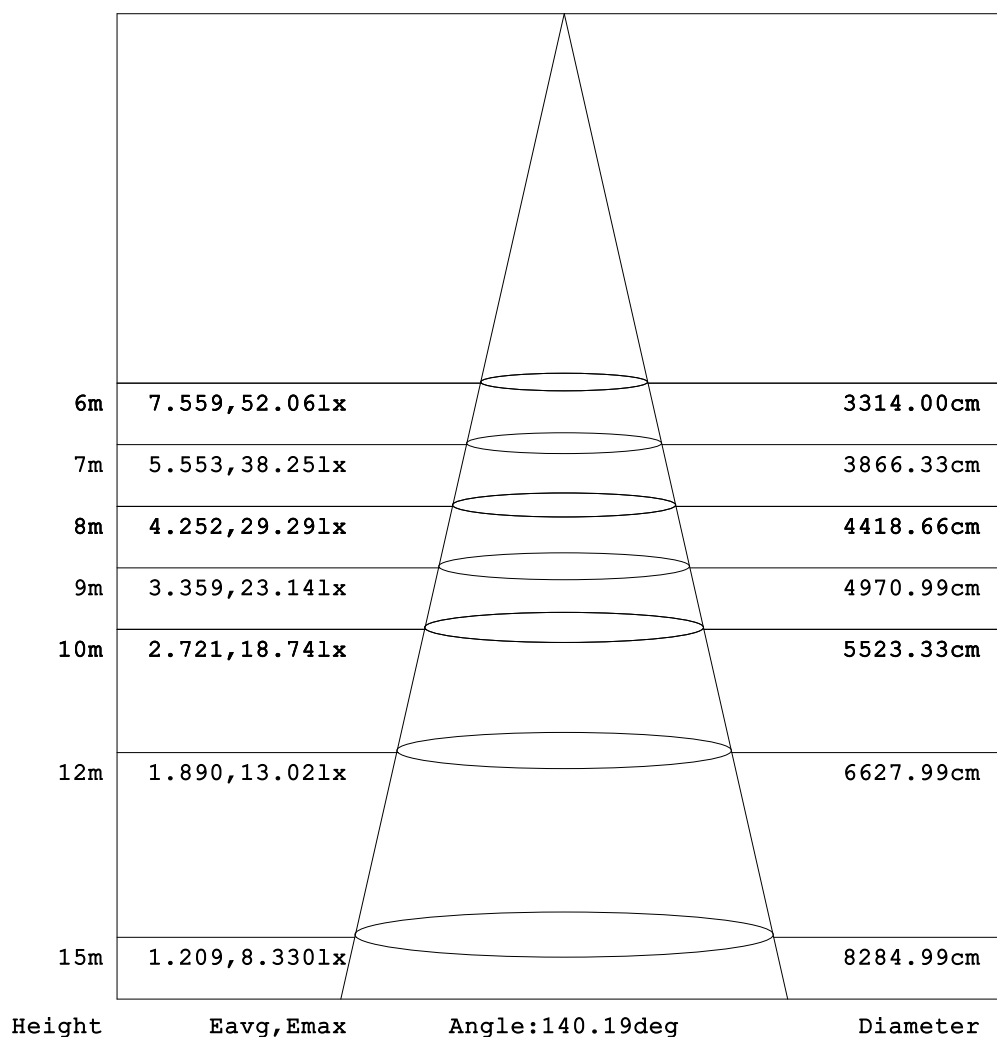
γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity:65.0%  
Test Distance:6.010m [K=1.0000]  
Remarks:



## AAI Figure

Test:U:480.26V I:0.1348A P:59.917W PF:0.9258 Freq:59.98Hz Lamp Flux:8293.65x1 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:7210 lm



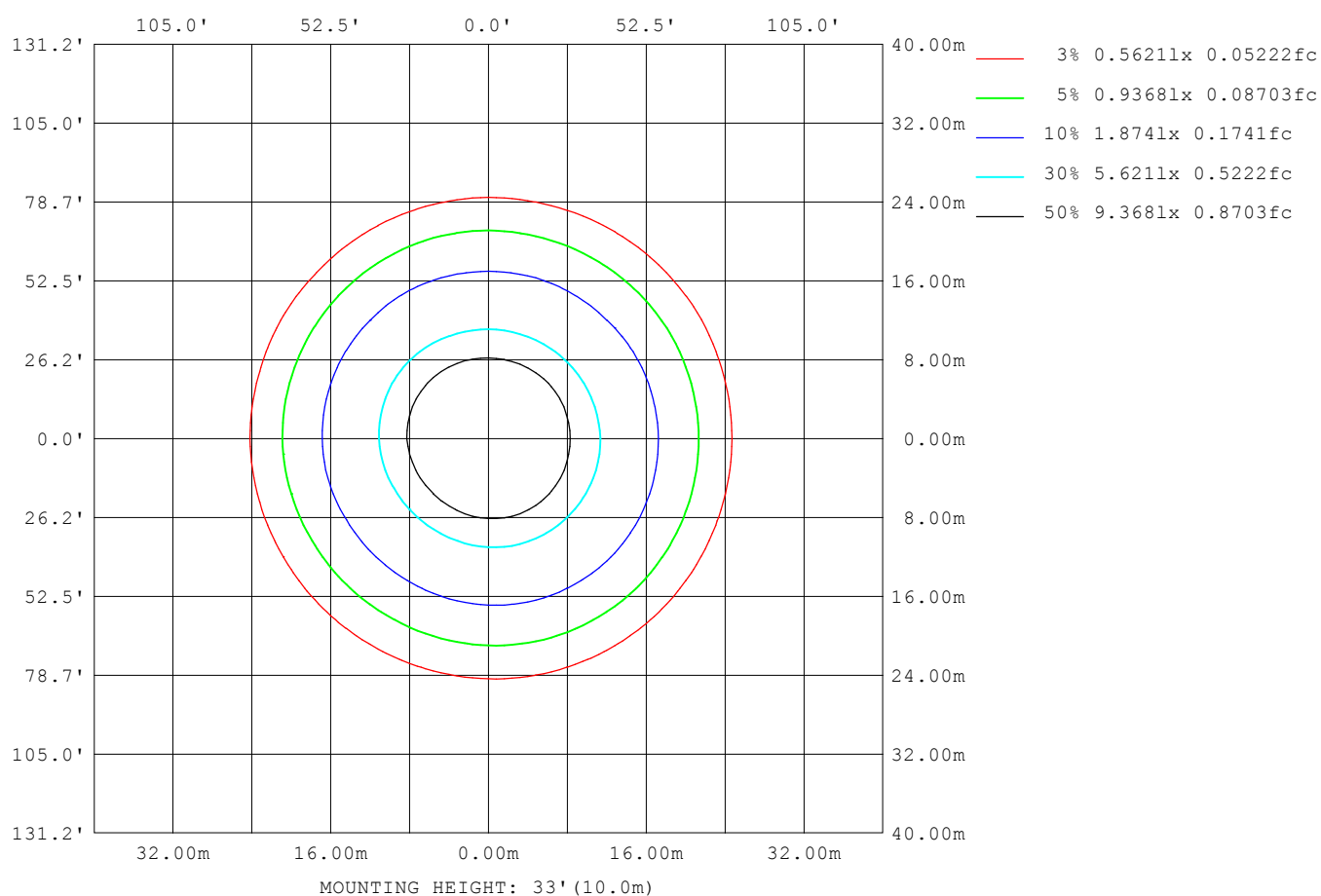
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:480.26V I:0.1348A P:59.917W PF:0.9258 Freq:59.98Hz Lamp Flux:8293.65x1 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

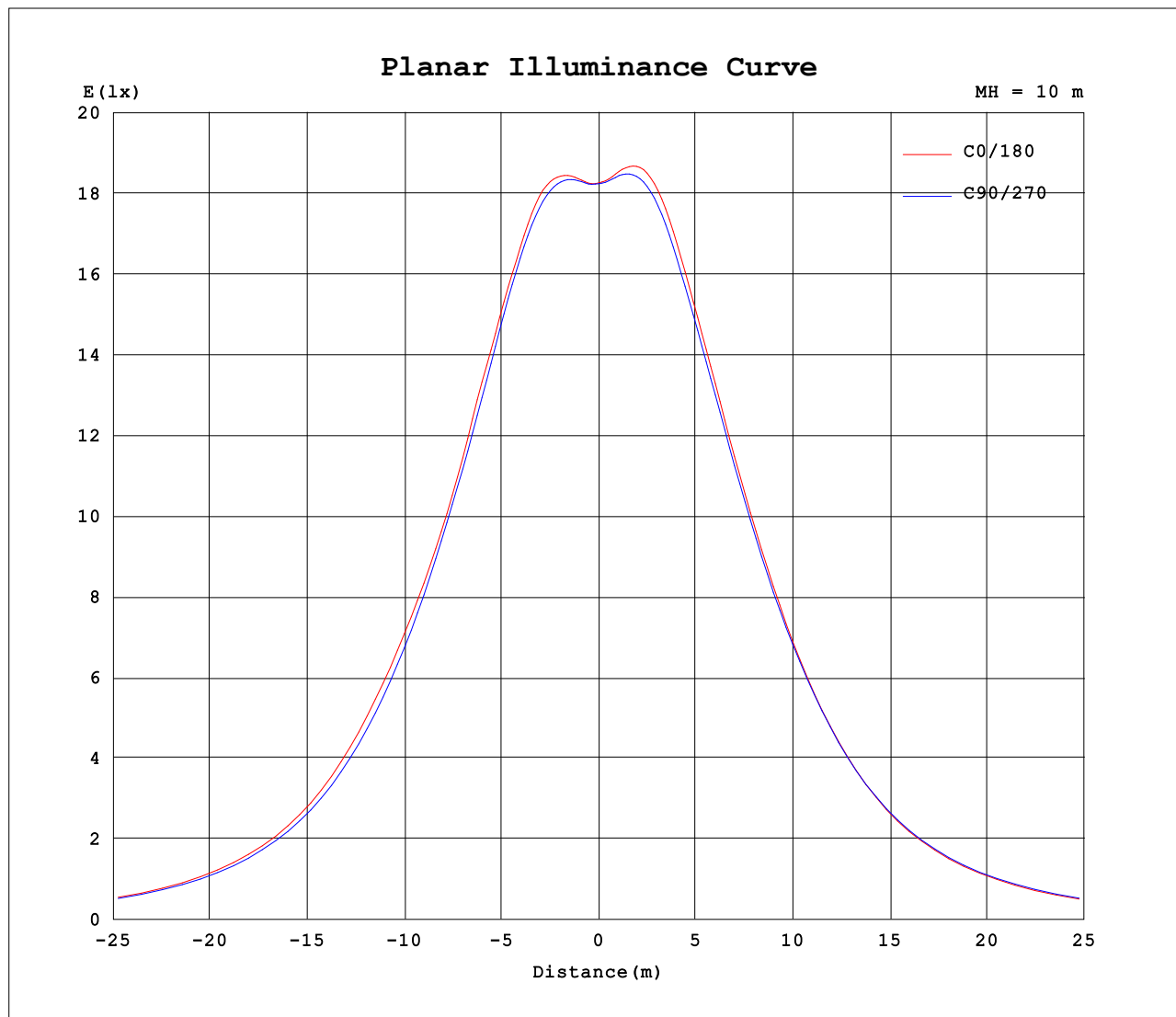
Test:U:480.26V I:0.1348A P:59.917W PF:0.9258 Freq:59.98Hz Lamp Flux:8293.65x1 lm		
NAME: LED Explosion-proof Flood Light	TYPE:Floodlight	WEIGHT:N/A
SPEC.:60W/Lumileds 5050/5000K	DIM.: 265*265*150mm	SERIAL No.:N/A
MFR.: LDPI Inc.,Ltd	SUR.:N/A	Shielding Angle:N/A

AvgL	cd/m2
L_0~180 (65) av	27791
L_0~180 (75) av	26883
L_0~180 (85) av	44638
L_90~270 (65) av	27515
L_90~270 (75) av	27004
L_90~270 (85) av	45421
L_45 (65) av	27581
L_45 (75) av	26950
L_45 (85) av	44920

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:



## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:480.26V I:0.1348A P:59.917W PF:0.9258 Freq:59.98Hz Lamp Flux:8293.65x1 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:

```