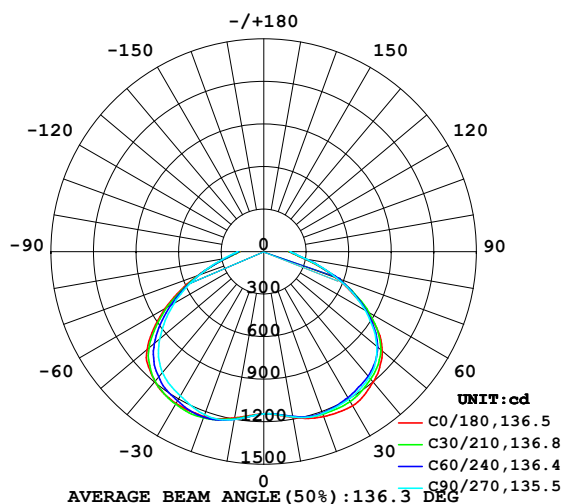


LUMINAIRE PHOTOMETRIC TEST REPORT

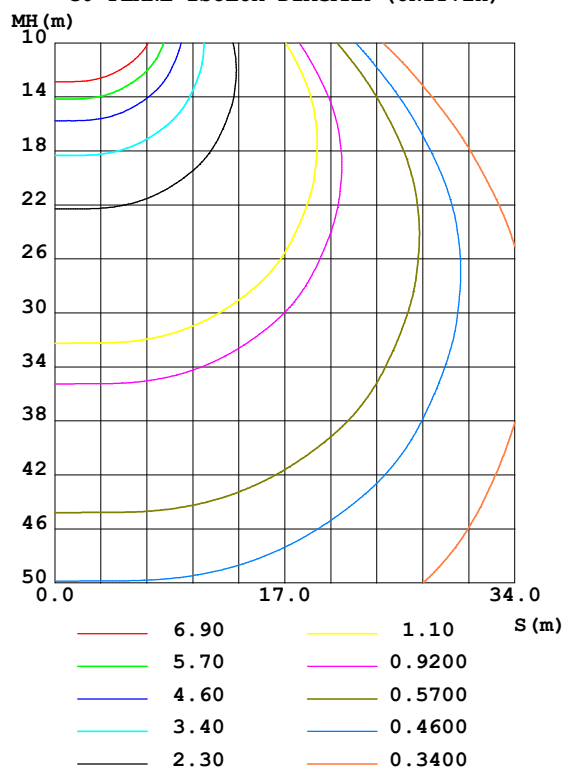
Test:U:479.92V I:0.0877A P:40.045W PF:0.9517 Freq:59.98Hz Lamp Flux:4779.48x1 lm		
NAME: LED Explosion-proof Flood Light	TYPE:Floodlight	WEIGHT:N/A
SPEC.:40W/Lumileds 5050/3000K	DIM.: 265*265*150mm	SERIAL No.:N/A
MFR.: NJZ Lighting Technology Co.,Ltd	SUR.:N/A	Shielding Angle:N/A

DATA OF LAMP		PHOTOMETRIC DATA Eff: 119.35 lm/W			
NOMINAL POWER(W)	40	Imax(cd)	1255	S/MH(C0/180)	1.61
RATED VOLTAGE(V)	480	LOR(%)	100.0	S/MH(C90/270)	1.52
NOMINAL FLUX(lm)	4779.48	TOTAL FLUX(lm)	4779.5	η UP,DN(C0-180)	0.0,50.8
LAMPS INSIDE	1	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,49.2
TEST VOLTAGE(V)	480	η up(%)	0.0	CIBSE SHR NOM	1.75
		η 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:05 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	1187	1179	1184	1187	1190	1199	1201	1198	0- 10	111.7	111.7	2.34,2.34
20	1238	1213	1214	1224	1237	1246	1224	1231	10- 20	345.0	456.7	9.56,9.56
30	1255	1197	1202	1215	1237	1232	1176	1199	20- 30	566.0	1023	21.4,21.4
40	1200	1153	1158	1182	1195	1175	1112	1146	30- 40	749.1	1772	37.1,37.1
50	1090	1056	1040	1070	1072	1039	957.7	1005	40- 50	860.7	2632	55.1,55.1
60	841.6	848.7	828.2	825.3	805.0	777.3	731.0	783.8	50- 60	831.5	3464	72.5,72.5
70	542.3	557.8	546.8	533.8	496.7	487.7	483.5	505.9	60- 70	655.8	4120	86.2,86.2
80	289.4	297.5	303.8	282.0	263.8	269.2	284.2	287.7	70- 80	416.7	4536	94.9,94.9
90	174.6	181.1	185.4	176.0	167.3	172.6	182.9	182.1	80- 90	243.1	4779	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): 2195 lm

%lum = 45.9%

%lamp = 45.9%

Conical surface Flux(120deg): 3463.9 lm

%lum = 72.5%

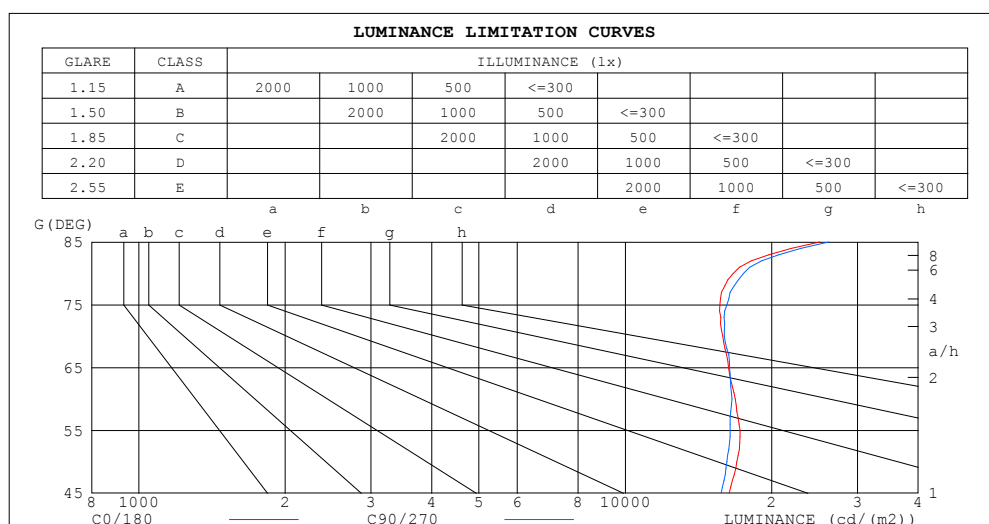
%lamp = 72.5%

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:CL
 Test Date:05 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:479.92V I:0.0877A P:40.045W PF:0.9517 Freq:59.98Hz Lamp Flux:4779.48x1 lm		
NAME: LED Explosion-proof Flood Light	TYPE:Floodlight	WEIGHT:N/A
SPEC.:40W/Lumileds 5050/3000K	DIM.: 265*265*150mm	SERIAL No.:N/A
MFR.: NJZ Lighting Technology Co.,Ltd	SUR.:N/A	Shielding Angle:N/A



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	25086	26200
80	16665	17493
75	15637	16167
70	15856	15987
65	16305	16375
60	16832	16565
55	17210	16430
50	16963	16184
45	16343	15736

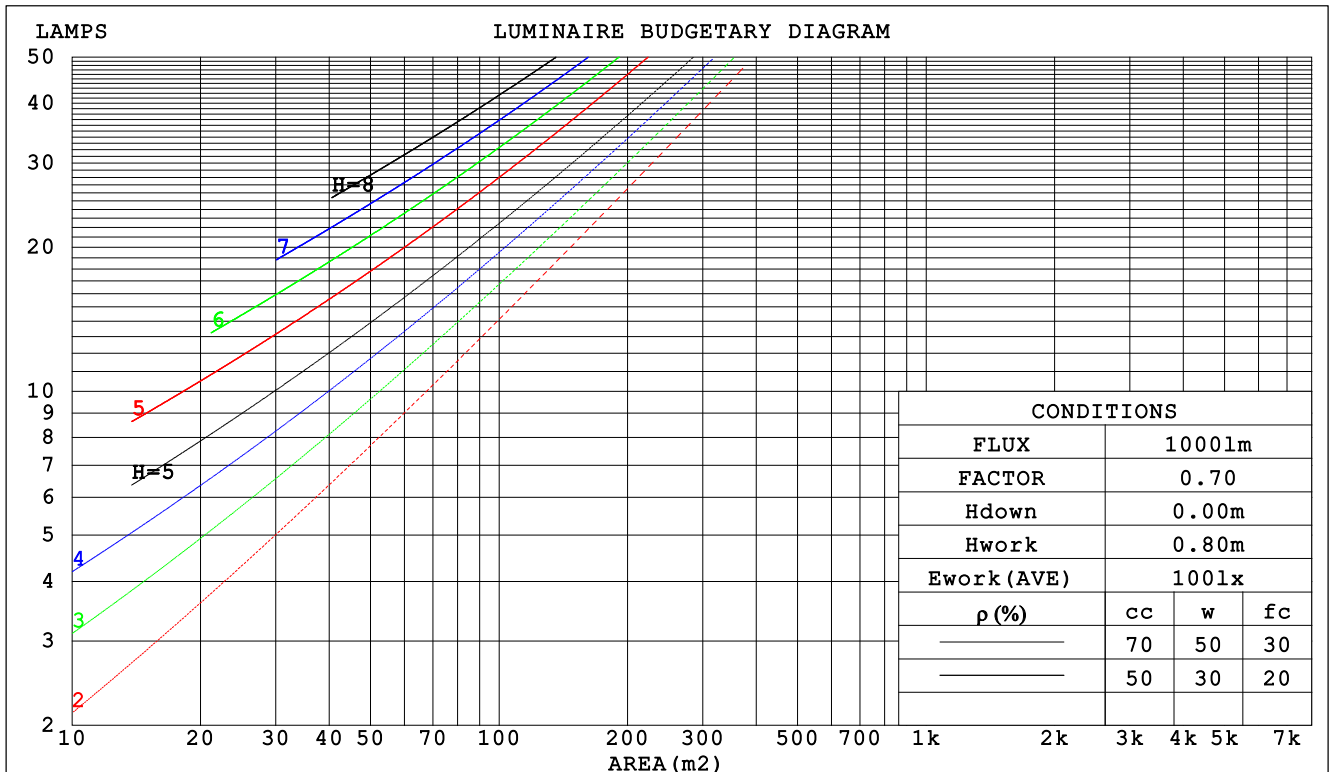
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:CL
Test Date:05 December 2018

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:479.92V I:0.0877A P:40.045W PF:0.9517 Freq:59.98Hz Lamp Flux:4779.48x1 lm		
NAME: LED Explosion-proof Flood Light	TYPE:Floodlight	WEIGHT:N/A
SPEC.:40W/Lumileds 5050/3000K	DIM.: 265*265*150mm	SERIAL No.:N/A
MFR.: NJZ Lighting Technology Co.,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	1.00
1.0	1.01	.96	.92	.99	.94	.90	.95	.91	.87	.91	.87	.85	.87	.84	.82	.80
2.0	.87	.79	.73	.85	.78	.72	.81	.75	.70	.78	.73	.69	.75	.71	.67	.65
3.0	.76	.67	.59	.74	.66	.59	.71	.64	.58	.68	.62	.57	.65	.60	.56	.53
4.0	.66	.57	.49	.65	.56	.49	.62	.55	.48	.60	.53	.48	.58	.52	.47	.45
5.0	.59	.49	.42	.58	.48	.42	.55	.47	.41	.53	.46	.41	.51	.45	.40	.38
6.0	.52	.43	.36	.52	.42	.36	.50	.42	.36	.48	.41	.35	.46	.40	.35	.33
7.0	.47	.38	.31	.46	.38	.31	.45	.37	.31	.43	.36	.31	.42	.36	.31	.28
8.0	.43	.34	.28	.42	.34	.28	.41	.33	.27	.40	.32	.27	.38	.32	.27	.25
9.0	.39	.31	.25	.39	.30	.25	.37	.30	.25	.36	.29	.24	.35	.29	.24	.22
10.0	.36	.28	.22	.35	.28	.22	.34	.27	.22	.33	.27	.22	.33	.26	.22	.20



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:CL
Test Date:05 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:479.92V I:0.0877A P:40.045W PF:0.9517 Freq:59.98Hz Lamp Flux:4779.48x1 lm		
NAME: LED Explosion-proof Flood Light	TYPE:Floodlight	WEIGHT:N/A
SPEC.:40W/Lumileds 5050/3000K	DIM.: 265*265*150mm	SERIAL No.:N/A
MFR.: NJZ Lighting Technology Co.,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	.360	.205	.065	.353	.201	.064	.339	.195	.062	.327	.189	.061	.315	.183	.059		
2.0	.325	.178	.055	.318	.175	.054	.306	.170	.053	.295	.166	.052	.285	.161	.051		
3.0	.295	.157	.047	.289	.155	.047	.278	.151	.046	.268	.147	.045	.259	.144	.044		
4.0	.268	.139	.041	.263	.138	.041	.254	.135	.040	.245	.132	.040	.237	.129	.039		
5.0	.246	.125	.036	.241	.124	.036	.233	.121	.036	.225	.119	.035	.218	.116	.035		
6.0	.226	.114	.032	.222	.112	.032	.215	.110	.032	.208	.108	.032	.201	.106	.031		
7.0	.210	.104	.029	.206	.103	.029	.199	.101	.029	.193	.099	.029	.187	.097	.029		
8.0	.195	.095	.027	.192	.094	.027	.186	.093	.026	.180	.091	.026	.175	.090	.026		
9.0	.182	.088	.025	.179	.087	.024	.174	.086	.024	.169	.085	.024	.164	.083	.024		
10.0	.170	.082	.023	.168	.081	.023	.163	.080	.023	.159	.079	.022	.154	.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	.078	.062	.053	.045	.020	.017	.015	
2.0	.177	.132	.094	.151	.113	.081	.104	.078	.057	.060	.046	.033	.019	.015	.011	
3.0	.169	.114	.071	.145	.099	.061	.100	.069	.043	.058	.040	.025	.018	.013	.008	
4.0	.162	.101	.055	.139	.088	.048	.095	.061	.034	.055	.036	.020	.018	.012	.007	
5.0	.154	.091	.045	.132	.079	.039	.091	.055	.028	.053	.032	.016	.017	.011	.005	
6.0	.147	.083	.037	.126	.072	.032	.087	.050	.023	.050	.030	.014	.016	.010	.005	
7.0	.139	.076	.032	.120	.066	.028	.083	.046	.020	.048	.027	.012	.016	.009	.004	
8.0	.133	.070	.028	.114	.061	.024	.079	.043	.017	.046	.025	.010	.015	.008	.003	
9.0	.126	.065	.024	.109	.057	.021	.075	.040	.015	.044	.024	.009	.014	.008	.003	
10.0	.120	.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:05 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:479.92V I:0.0877A P:40.045W PF:0.9517 Freq:59.98Hz Lamp Flux:4779.48x1 lm										
NAME: LED Explosion-proof Flood Light					TYPE:Floodlight			WEIGHT:N/A		
SPEC.:40W/Lumileds 5050/3000K					DIM.: 265*265*150mm			SERIAL No.:N/A		
MFR.: NJZ Lighting Technology Co.,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	17.6	19.3	17.9	19.5	19.7	17.5	19.1	17.7	19.3	19.5
3H	19.3	20.8	19.6	21.1	21.3	19.2	20.7	19.5	21.0	21.2
4H	20.0	21.5	20.4	21.7	22.0	20.0	21.4	20.3	21.7	22.0
6H	20.7	22.0	21.0	22.3	22.6	20.7	22.1	21.0	22.3	22.6
8H	21.0	22.3	21.3	22.6	22.9	21.0	22.4	21.4	22.7	23.0
12H	21.4	22.6	21.7	22.9	23.2	21.4	22.7	21.8	23.0	23.3
4H 2H	18.3	19.8	18.6	20.0	20.3	18.2	19.6	18.5	19.9	20.2
3H	20.2	21.5	20.6	21.8	22.1	20.1	21.4	20.5	21.7	22.0
4H	21.1	22.2	21.4	22.6	22.9	21.0	22.2	21.4	22.5	22.9
6H	21.9	22.9	22.3	23.3	23.6	21.9	23.0	22.3	23.3	23.7
8H	22.2	23.2	22.7	23.6	24.0	22.3	23.3	22.8	23.7	24.1
12H	22.7	23.6	23.2	24.0	24.4	22.8	23.8	23.3	24.1	24.6
8H 4H	21.4	22.4	21.8	22.8	23.2	21.4	22.4	21.8	22.7	23.1
6H	22.4	23.2	22.9	23.7	24.1	22.5	23.3	22.9	23.7	24.1
8H	23.0	23.7	23.4	24.1	24.6	23.1	23.8	23.5	24.2	24.7
12H	23.6	24.3	24.1	24.7	25.2	23.8	24.4	24.3	24.9	25.3
12H 4H	21.5	22.4	21.9	22.8	23.2	21.4	22.3	21.9	22.7	23.1
6H	22.5	23.3	23.0	23.7	24.2	22.6	23.3	23.1	23.8	24.2
8H	23.2	23.8	23.7	24.3	24.8	23.3	23.9	23.8	24.4	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 / - 0.3				
2.0H	+ 0.2 / - 0.4					+ 0.2 / - 0.4				

CIE Pub.117, 4779 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 5.4$)

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:CL
Test Date:05 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:479.92V I:0.0877A P:40.045W PF:0.9517 Freq:59.98Hz Lamp Flux:4779.48x1 lm		
NAME: LED Explosion-proof Flood Light	TYPE:Floodlight	WEIGHT:N/A
SPEC.:40W/Lumileds 5050/3000K	DIM.: 265*265*150mm	SERIAL No.:N/A
MFR.: NJZ Lighting Technology Co.,Ltd	SUR.:N/A	Shielding Angle:N/A

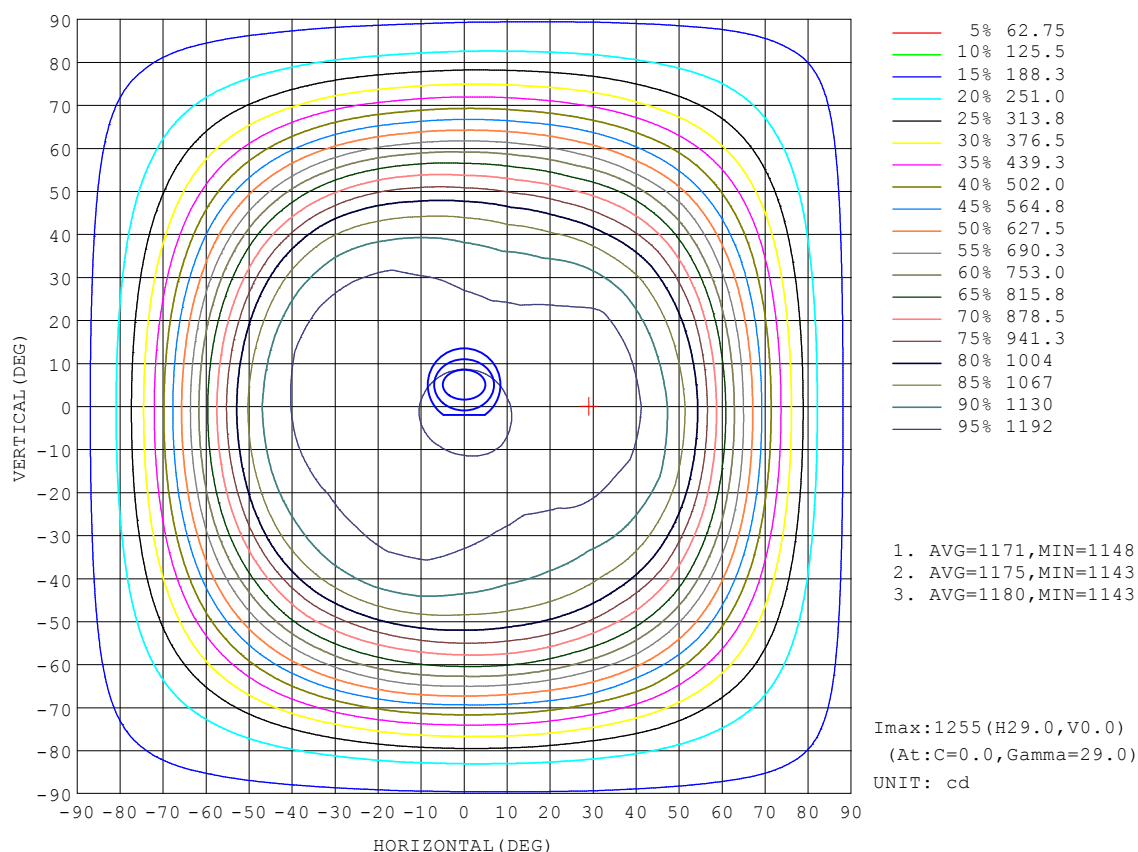
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	53	41	33	52	40	33	51	40	33	26
0.80	63	51	43	62	50	42	60	49	42	35
1.00	72	60	52	71	59	51	68	61	51	43
1.25	79	68	60	78	67	59	75	65	58	51
1.50	84	73	66	83	72	65	79	71	64	56
2.00	92	82	75	90	81	74	86	78	72	64
2.50	96	87	80	94	86	79	90	83	77	69
3.00	100	92	85	97	90	84	93	87	82	73
4.00	104	97	92	101	95	90	97	92	88	78
5.00	107	101	96	104	99	95	99	95	91	82
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHR NOM = 1.25		

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:CL
Test Date:05 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:479.92V I:0.0877A P:40.045W PF:0.9517 Freq:59.98Hz Lamp Flux:4779.48x1 lm		
NAME: LED Explosion-proof Flood Light	TYPE:Floodlight	WEIGHT:N/A
SPEC.:40W/Lumileds 5050/3000K	DIM.: 265*265*150mm	SERIAL No.:N/A
MFR.: NJZ Lighting Technology Co.,Ltd	SUR.:N/A	Shielding Angle:N/A



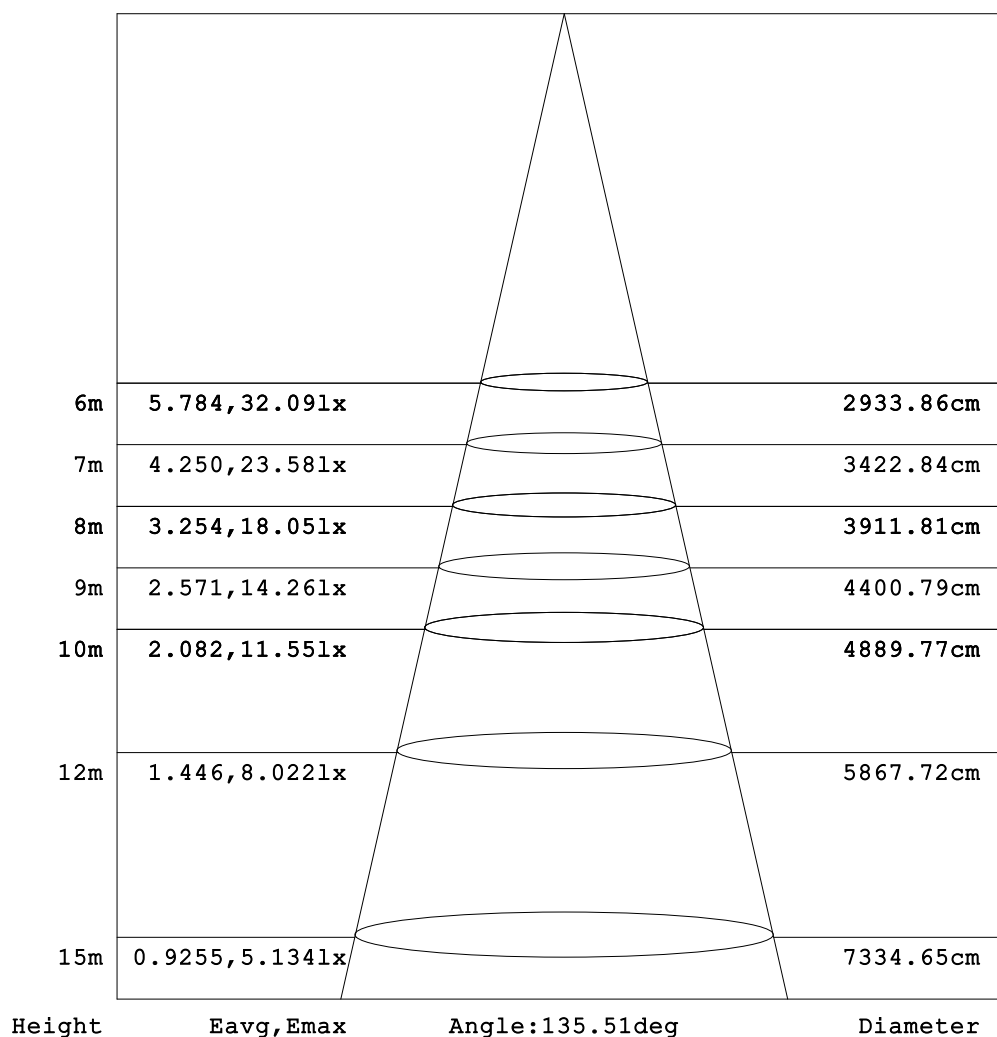
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:CL
Test Date:05 December 2018

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:479.92V I:0.0877A P:40.045W PF:0.9517 Freq:59.98Hz Lamp Flux:4779.48x1 lm		
NAME: LED Explosion-proof Flood Light	TYPE:Floodlight	WEIGHT:N/A
SPEC.:40W/Lumileds 5050/3000K	DIM.: 265*265*150mm	SERIAL No.:N/A
MFR.: NJZ Lighting Technology Co.,Ltd	SUR.:N/A	Shielding Angle:N/A

Flux out:4007 lm



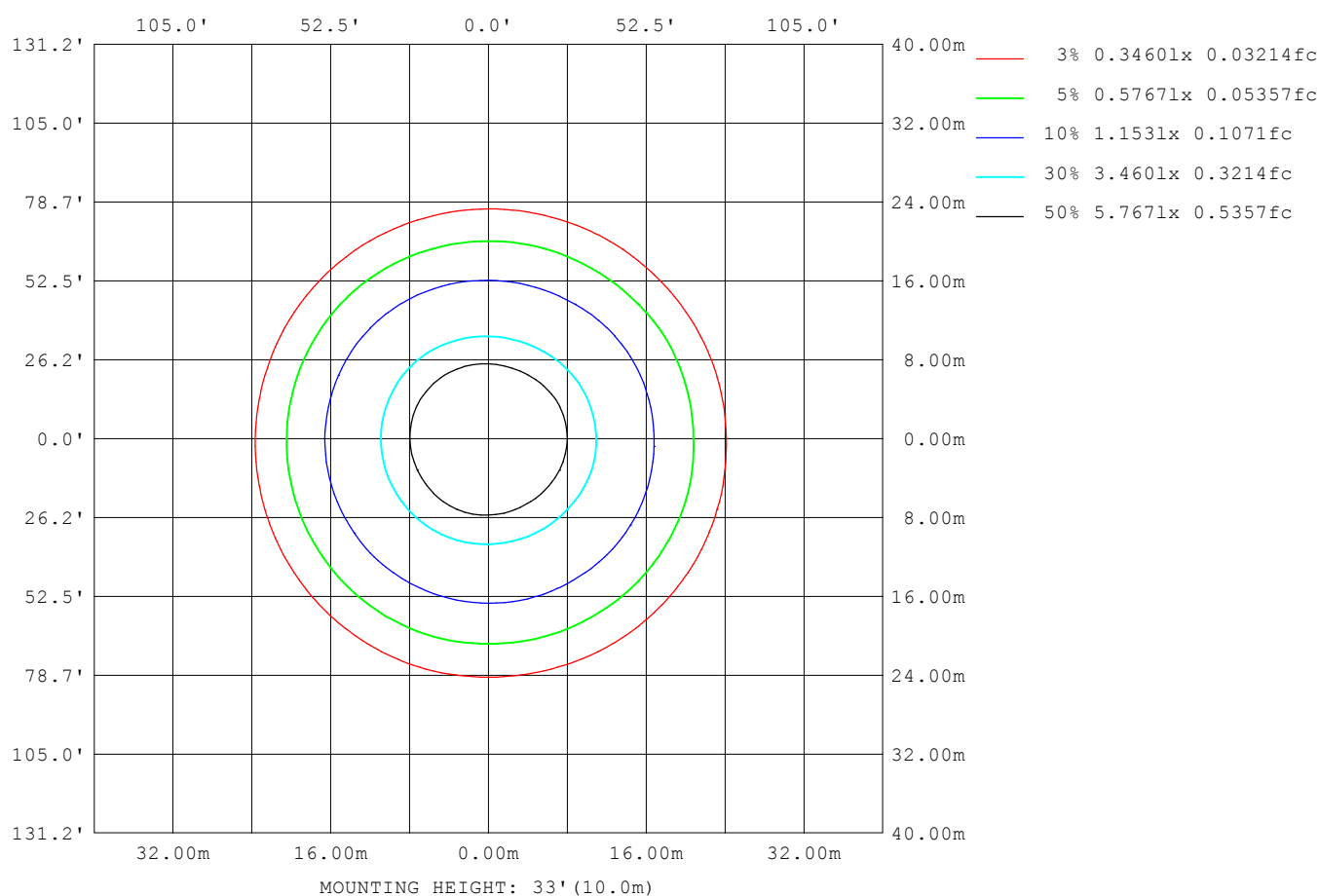
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:CL
Test Date:05 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:479.92V I:0.0877A P:40.045W PF:0.9517 Freq:59.98Hz Lamp Flux:4779.48x1 lm		
NAME: LED Explosion-proof Flood Light	TYPE:Floodlight	WEIGHT:N/A
SPEC.:40W/Lumileds 5050/3000K	DIM.: 265*265*150mm	SERIAL No.:N/A
MFR.: NJZ Lighting Technology Co.,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:05 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:479.92V I:0.0877A P:40.045W PF:0.9517 Freq:59.98Hz Lamp Flux:4779.48x1 lm		
NAME: LED Explosion-proof Flood Light	TYPE:Floodlight	WEIGHT:N/A
SPEC.:40W/Lumileds 5050/3000K	DIM.: 265*265*150mm	SERIAL No.:N/A
MFR.: NJZ Lighting Technology Co.,Ltd	SUR.:N/A	Shielding Angle:N/A

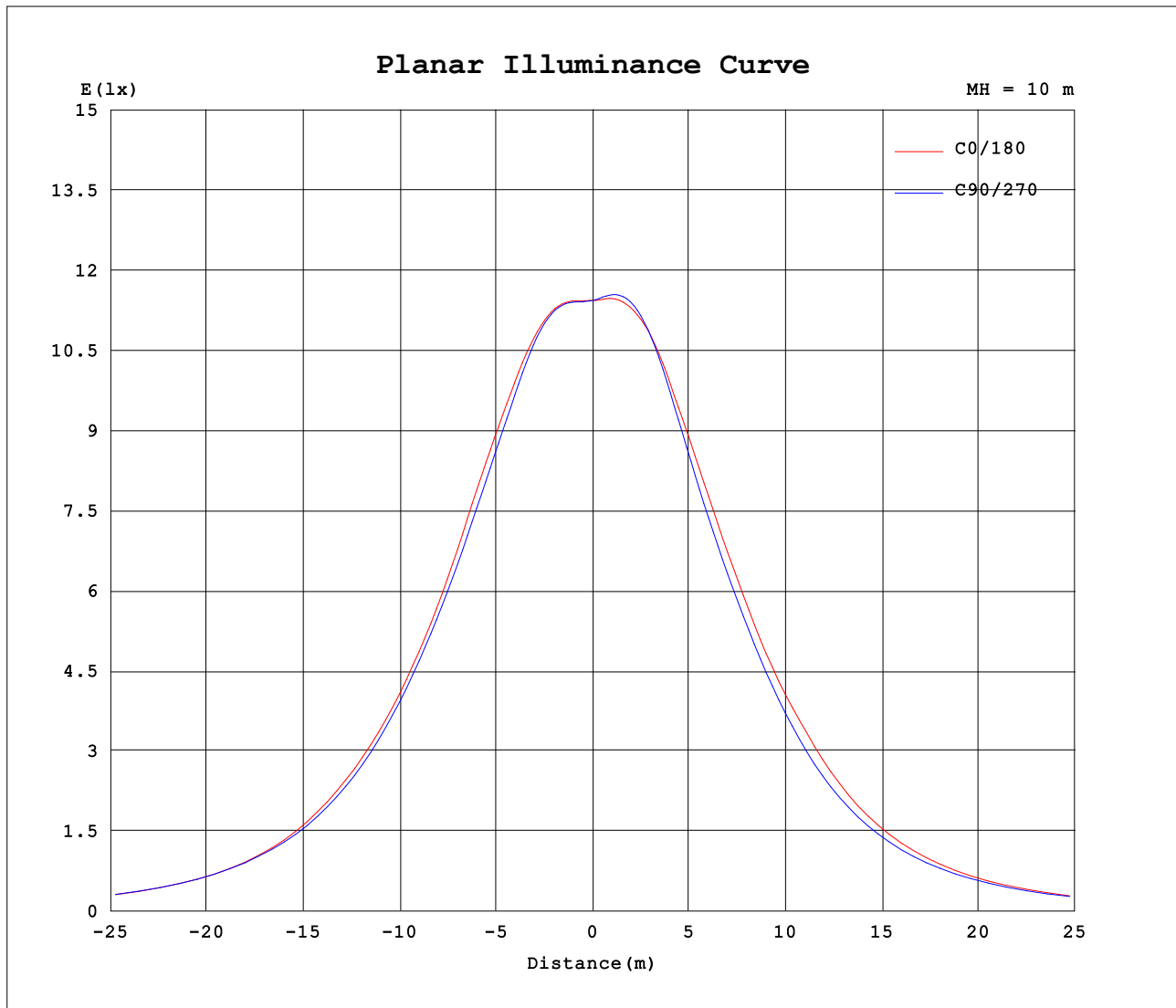
AvgL	cd/m2
L_0~180 (65) av	15819
L_0~180 (75) av	14871
L_0~180 (85) av	24341
L_90~270 (65) av	15366
L_90~270 (75) av	15306
L_90~270 (85) av	25931
L_45 (65) av	15714
L_45 (75) av	15057
L_45 (85) av	25205

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:CL
Test Date:05 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: 05 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:479.92V I:0.0877A P:40.045W PF:0.9517 Freq:59.98Hz Lamp Flux:4779.48x1 lm		
NAME: LED Explosion-proof Flood Light	TYPE:Floodlight	WEIGHT:N/A
SPEC.:40W/Lumileds 5050/3000K	DIM.: 265*265*150mm	SERIAL No.:N/A
MFR.: NJZ Lighting Technology Co.,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: 05 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:479.92V I:0.0877A P:40.045W PF:0.9517 Freq:59.98Hz Lamp Flux:4779.48x1 lm		
NAME: LED Explosion-proof Flood Light	TYPE:Floodlight	WEIGHT:N/A
SPEC.:40W/Lumileds 5050/3000K	DIM.: 265*265*150mm	SERIAL No.:N/A
MFR.: NJZ Lighting Technology Co.,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: 05 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:

```