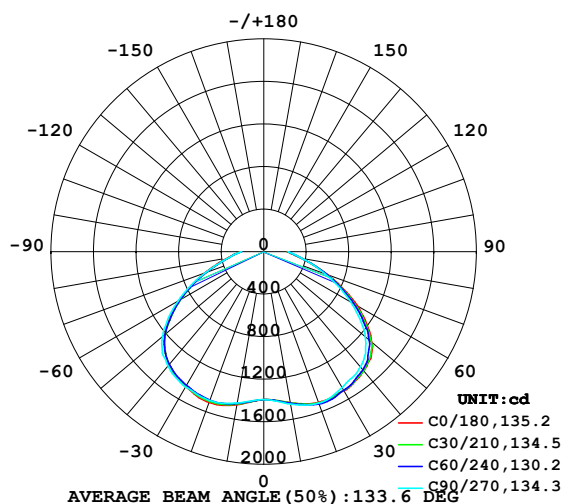


LUMINAIRE PHOTOMETRIC TEST REPORT

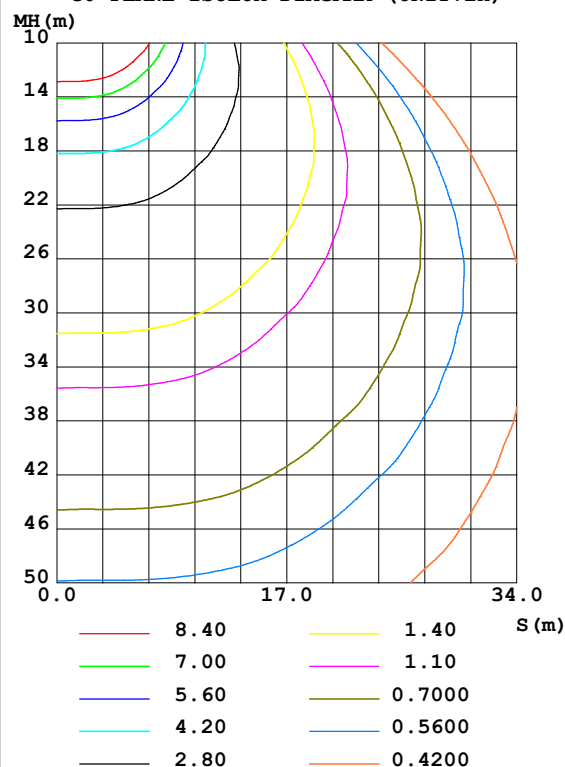
Test:U:120.18V I:0.3513A P:42.117W PF:0.9975 Freq:59.98Hz Lamp Flux:5760.97x1 lm		
NAME: LED Explosion-proof Flood Light	TYPE:Floodlight	WEIGHT:N/A
SPEC.:40W/Lumileds 5050/5000K	DIM.: 265*265*150mm	SERIAL No.:N/A
MFR.: NJZ Lighting Technology Co.,Ltd	SUR.:N/A	Shielding Angle:N/A

DATA OF LAMP		PHOTOMETRIC DATA Eff: 136.78 lm/W			
MODEL	FEL-D-45-3	Imax(cd)	1533	S/MH(C0/180)	1.55
NOMINAL POWER(W)	40	LOR(%)	100.0	S/MH(C90/270)	1.57
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	5761.0	η UP,DN(C0-180)	0.0,50.3
NOMINAL FLUX(lm)	5760.97	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,49.7
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	120	η down(%)	100.0	CIBSE SHR MAX	1.55

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:04 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	1442	1446	1455	1464	1462	1454	1445	1446	0- 10	136.1	136.1	2.36,2.36
20	1508	1521	1516	1499	1508	1493	1489	1509	10- 20	421.8	557.9	9.68,9.68
30	1510	1505	1474	1439	1466	1457	1469	1516	20- 30	692.6	1251	21.7,21.7
40	1459	1461	1414	1361	1385	1385	1403	1459	30- 40	911.4	2162	37.5,37.5
50	1326	1309	1247	1186	1211	1204	1242	1301	40- 50	1042	3204	55.6,55.6
60	1015	982.4	941.4	908.0	915.5	898.8	933.6	1001	50- 60	991.5	4195	72.8,72.8
70	641.2	634.1	615.9	604.2	593.4	574.3	588.5	623.8	60- 70	770.2	4965	86.2,86.2
80	352.2	362.4	362.0	355.3	347.0	334.9	335.3	343.3	70- 80	494.6	5460	94.8,94.8
90	218.5	223.0	226.5	223.3	219.0	211.4	209.5	214.1	80- 90	301.1	5761	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): 2675.5 lm

%lum = 46.4%

%lamp = 46.4%

Conical surface Flux(120deg): 4195.1 lm

%lum = 72.8%

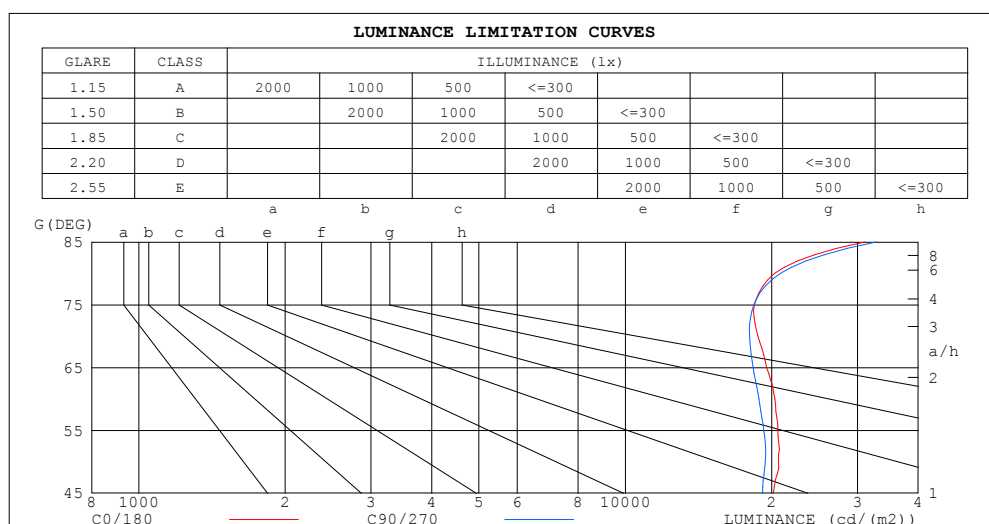
%lamp = 72.8%

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:CL
 Test Date:04 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:120.18V I:0.3513A P:42.117W PF:0.9975 Freq:59.98Hz Lamp Flux:5760.97x1 lm		
NAME: LED Explosion-proof Flood Light	TYPE:Floodlight	WEIGHT:N/A
SPEC.:40W/Lumileds 5050/5000K	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	31059	32758
80	20281	20845
75	18426	18369
70	18747	18008
65	19535	18313
60	20307	18827
55	20595	19258
50	20634	19396
45	20137	19141

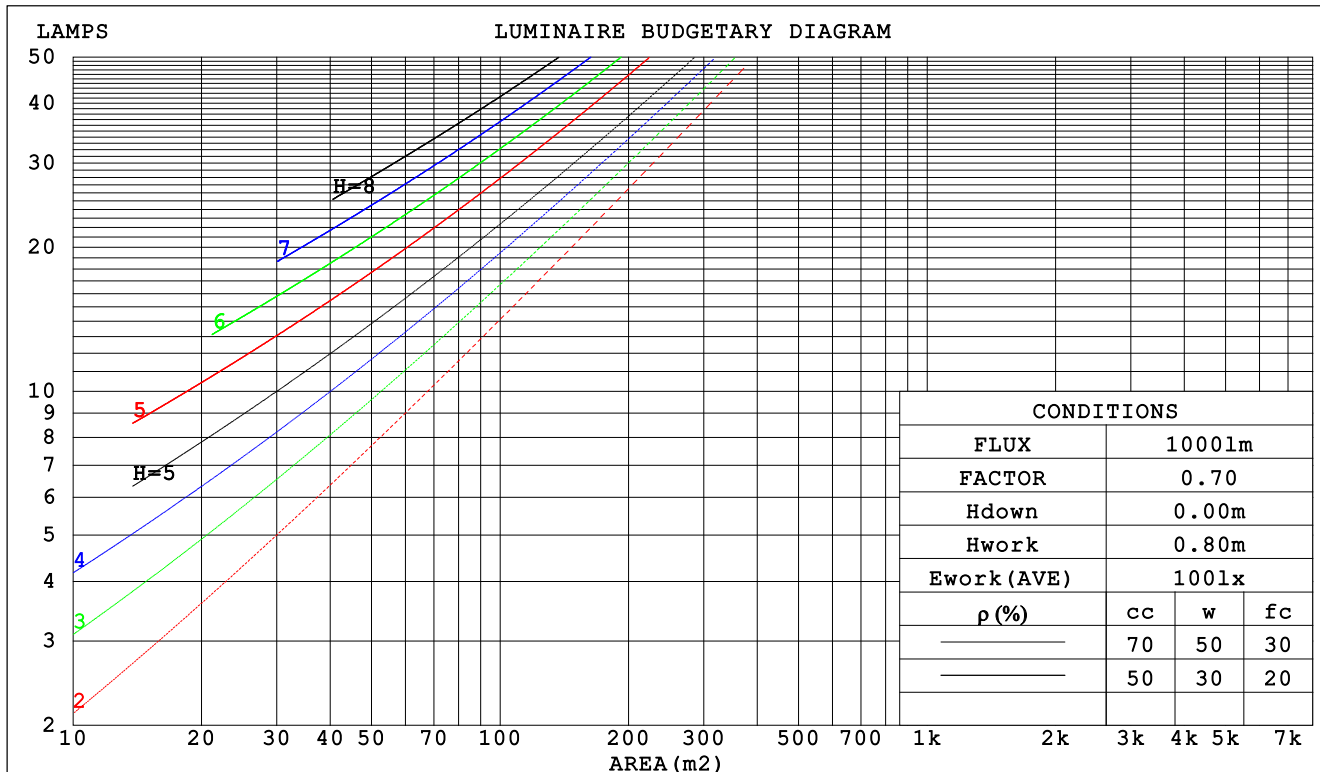
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:CL
Test Date:04 December 2018

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:120.18V I:0.3513A P:42.117W PF:0.9975 Freq:59.98Hz Lamp Flux:5760.97x1 lm		
NAME: LED Explosion-proof Flood Light	TYPE:Floodlight	WEIGHT:N/A
SPEC.:40W/Lumileds 5050/5000K	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
p _w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
p _{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	.92	.99	.94	.90	.95	.91	.87	.91	.88	.85	.87	.84	.82	.80
2.0	.87	.79	.73	.85	.78	.72	.81	.76	.70	.78	.73	.69	.75	.71	.67	.65
3.0	.76	.67	.60	.74	.66	.59	.71	.64	.58	.68	.62	.57	.65	.60	.56	.54
4.0	.66	.57	.50	.65	.56	.49	.62	.55	.49	.60	.53	.48	.58	.52	.47	.45
5.0	.59	.49	.42	.58	.49	.42	.56	.48	.41	.54	.46	.41	.52	.45	.40	.38
6.0	.53	.43	.36	.52	.43	.36	.50	.42	.36	.48	.41	.35	.46	.40	.35	.33
7.0	.48	.38	.32	.47	.38	.32	.45	.37	.31	.44	.36	.31	.42	.36	.31	.29
8.0	.43	.34	.28	.42	.34	.28	.41	.33	.28	.40	.33	.28	.39	.32	.27	.25
9.0	.39	.31	.25	.39	.31	.25	.38	.30	.25	.36	.30	.25	.35	.29	.24	.23
10.0	.36	.28	.22	.36	.28	.22	.35	.27	.22	.34	.27	.22	.33	.27	.22	.20



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:CL
 Test Date:04 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:120.18V I:0.3513A P:42.117W PF:0.9975 Freq:59.98Hz Lamp Flux:5760.97x1 lm		
NAME: LED Explosion-proof Flood Light	TYPE:Floodlight	WEIGHT:N/A
SPEC.:40W/Lumileds 5050/5000K	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	.194	.062	.327	.188	.060	.315	.183	.059		
2.0	.324	.177	.054	.317	.175	.054	.305	.170	.053	.294	.165	.052	.284	.161	.051		
3.0	.294	.156	.047	.288	.154	.046	.277	.150	.046	.267	.147	.045	.258	.143	.044		
4.0	.267	.139	.041	.262	.137	.041	.253	.134	.040	.244	.131	.040	.236	.128	.039		
5.0	.245	.125	.036	.241	.124	.036	.232	.121	.036	.224	.118	.035	.217	.116	.035		
6.0	.226	.113	.032	.222	.112	.032	.214	.110	.032	.207	.108	.032	.201	.106	.031		
7.0	.209	.103	.029	.205	.102	.029	.199	.101	.029	.193	.099	.029	.187	.097	.029		
8.0	.194	.095	.027	.191	.094	.027	.185	.093	.026	.180	.091	.026	.174	.090	.026		
9.0	.181	.088	.025	.179	.087	.024	.173	.086	.024	.168	.084	.024	.164	.083	.024		
10.0	.170	.082	.023	.168	.081	.023	.163	.080	.022	.158	.079	.022	.154	.077	.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	.062	.099	.069	.043	.057	.040	.025	.018	.013	.008	
4.0	.161	.101	.056	.138	.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	.146	.083	.037	.126	.072	.033	.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:04 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:120.18V I:0.3513A P:42.117W PF:0.9975 Freq:59.98Hz Lamp Flux:5760.97x1 lm										
NAME: LED Explosion-proof Flood Light					TYPE:Floodlight			WEIGHT:N/A		
SPEC.:40W/Lumileds 5050/5000K					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	19.2	17.9	19.4	19.6	17.3	19.0	17.6	19.2	19.4
3H	19.2	20.7	19.5	21.0	21.2	19.0	20.5	19.3	20.7	21.0
4H	19.9	21.3	20.2	21.6	21.9	19.7	21.2	20.0	21.4	21.7
6H	20.6	21.9	20.9	22.2	22.5	20.4	21.8	20.8	22.1	22.4
8H	20.9	22.2	21.3	22.5	22.8	20.8	22.1	21.2	22.4	22.7
12H	21.3	22.6	21.7	22.9	23.2	21.3	22.6	21.6	22.9	23.2
4H 2H	18.2	19.6	18.5	19.9	20.1	18.0	19.4	18.3	19.7	20.0
3H	20.0	21.3	20.4	21.6	21.9	19.8	21.1	20.2	21.4	21.7
4H	20.9	22.0	21.2	22.4	22.7	20.7	21.9	21.1	22.2	22.6
6H	21.7	22.8	22.1	23.1	23.5	21.6	22.7	22.0	23.0	23.4
8H	22.2	23.1	22.6	23.5	23.9	22.1	23.1	22.5	23.5	23.9
12H	22.7	23.6	23.1	24.0	24.4	22.7	23.6	23.1	24.0	24.4
8H 4H	21.2	22.2	21.6	22.6	22.9	21.1	22.1	21.5	22.4	22.8
6H	22.3	23.1	22.7	23.5	23.9	22.2	23.1	22.7	23.5	23.9
8H	22.9	23.6	23.4	24.1	24.5	22.9	23.6	23.3	24.1	24.5
12H	23.6	24.3	24.1	24.7	25.2	23.7	24.3	24.2	24.8	25.2
12H 4H	21.3	22.2	21.7	22.6	23.0	21.2	22.1	21.6	22.4	22.9
6H	22.4	23.2	22.9	23.6	24.0	22.4	23.1	22.8	23.5	24.0
8H	23.1	23.8	23.6	24.2	24.7	23.1	23.8	23.6	24.2	24.7
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.4				
2.0H	+ 0.1 / - 0.4					+ 0.2 / - 0.4				

CIE Pub.117, 5761 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 6.1$)

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:CL
Test Date:04 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:120.18V I:0.3513A P:42.117W PF:0.9975 Freq:59.98Hz Lamp Flux:5760.97x1 lm		
NAME: LED Explosion-proof Flood Light	TYPE:Floodlight	WEIGHT:N/A
SPEC.:40W/Lumileds 5050/5000K	DIM.: 265*265*150mm	SERIAL No.:N/A
MFR.: NJZ Lighting Technology Co.,Ltd	SUR.:N/A	Shielding Angle:N/A

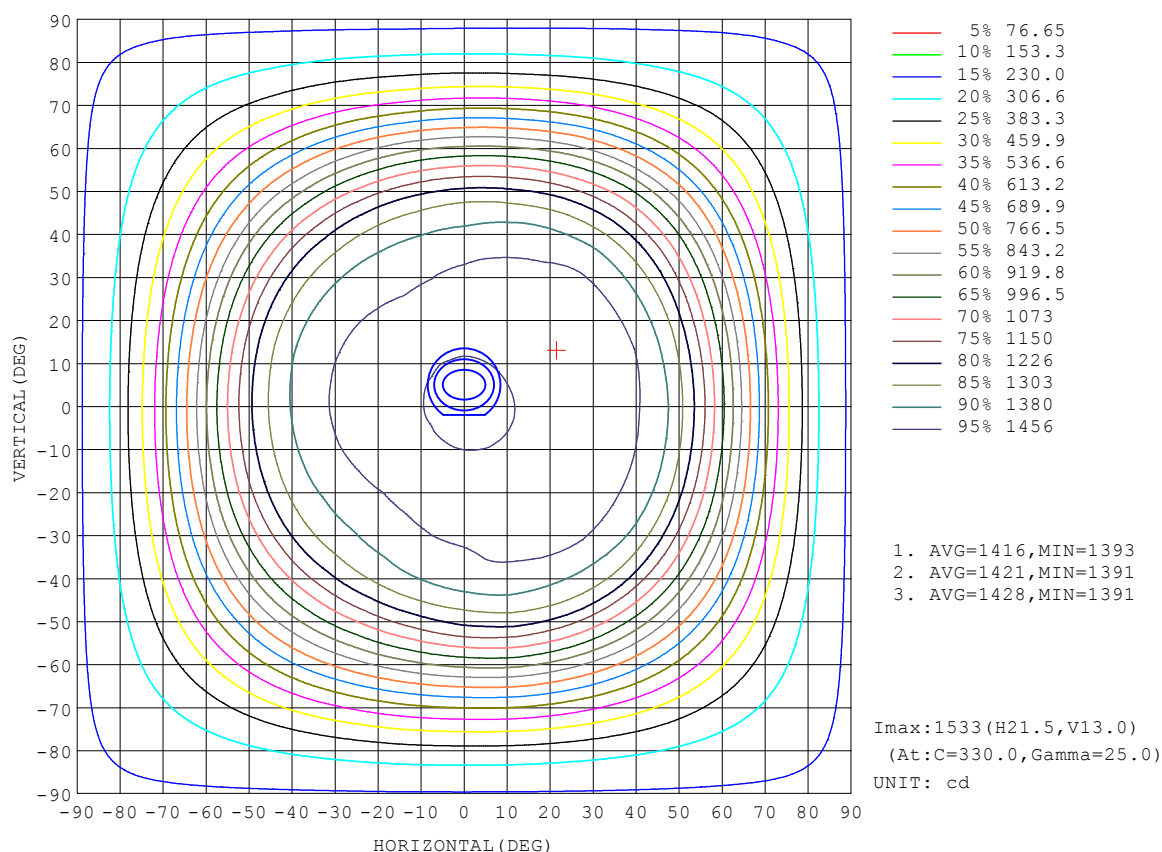
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	53	41	34	53	41	33	51	40	33	26
0.80	63	51	43	62	50	43	60	50	42	35
1.00	72	60	52	71	59	52	68	61	51	44
1.25	79	68	60	78	67	60	75	66	59	51
1.50	85	74	66	83	73	65	80	71	64	56
2.00	92	82	75	90	81	74	86	79	73	64
2.50	96	87	80	94	86	79	90	83	78	69
3.00	100	92	85	97	90	84	93	87	82	73
4.00	104	97	92	101	96	91	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					SHRNM = 1.25		

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:CL
 Test Date:04 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:120.18V I:0.3513A P:42.117W PF:0.9975 Freq:59.98Hz Lamp Flux:5760.97x1 lm		
NAME: LED Explosion-proof Flood Light	TYPE:Floodlight	WEIGHT:N/A
SPEC.:40W/Lumileds 5050/5000K	DIM.: 265*265*150mm	SERIAL No.:N/A
MFR.: NJZ Lighting Technology Co.,Ltd	SUR.:N/A	Shielding Angle:N/A



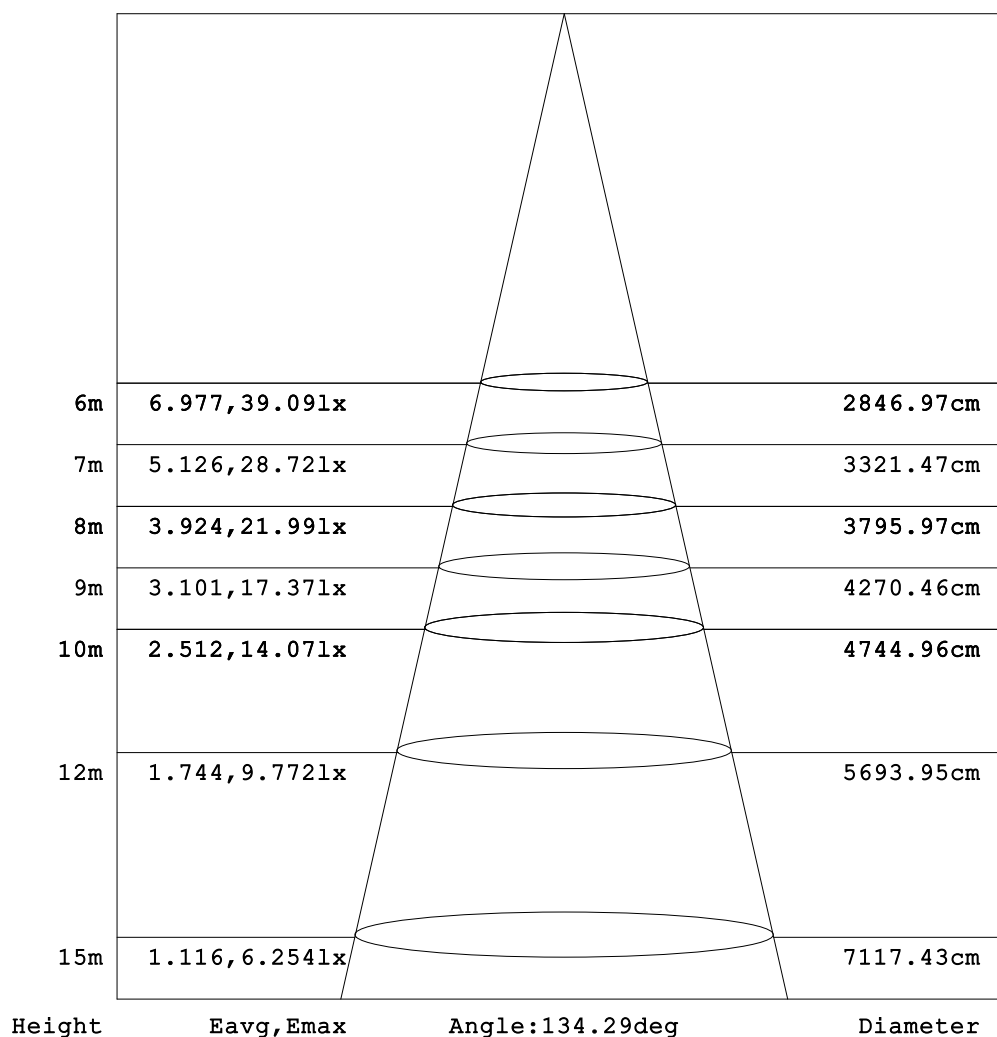
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:CL
Test Date:04 December 2018

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:120.18V I:0.3513A P:42.117W PF:0.9975 Freq:59.98Hz Lamp Flux:5760.97x1 lm		
NAME: LED Explosion-proof Flood Light	TYPE:Floodlight	WEIGHT:N/A
SPEC.:40W/Lumileds 5050/5000K	DIM.: 265*265*150mm	SERIAL No.:N/A
MFR.: NJZ Lighting Technology Co.,Ltd	SUR.:N/A	Shielding Angle:N/A

Flux out:4834 lm



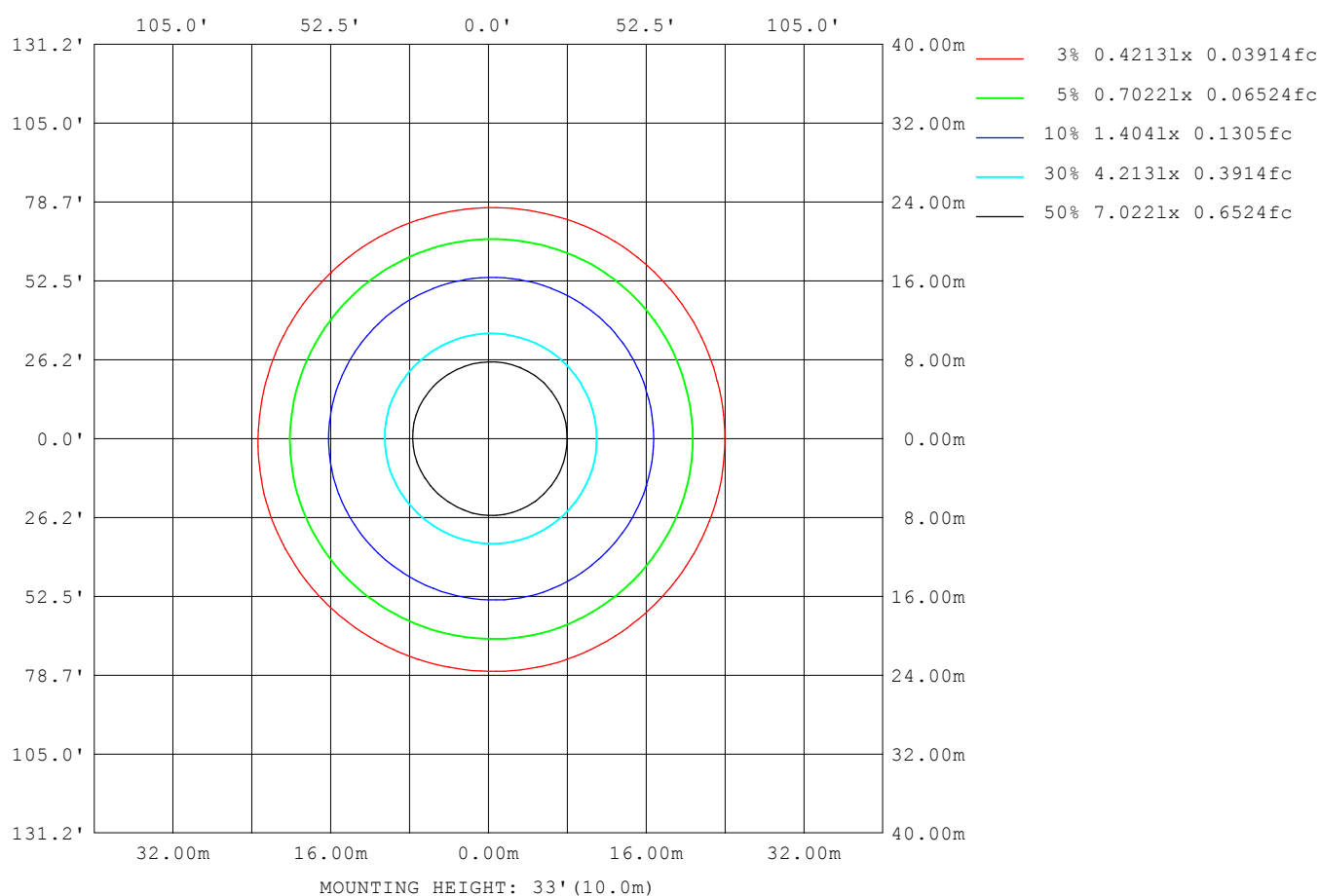
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:CL
Test Date:04 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:120.18V I:0.3513A P:42.117W PF:0.9975 Freq:59.98Hz Lamp Flux:5760.97x1 lm		
NAME: LED Explosion-proof Flood Light	TYPE:Floodlight	WEIGHT:N/A
SPEC.:40W/Lumileds 5050/5000K	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:04 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:120.18V I:0.3513A P:42.117W PF:0.9975 Freq:59.98Hz Lamp Flux:5760.97x1 lm		
NAME: LED Explosion-proof Flood Light	TYPE:Floodlight	WEIGHT:N/A
SPEC.:40W/Lumileds 5050/5000K	DIM.: 265*265*150mm	SERIAL No.:N/A
MFR.: NJZ Lighting Technology Co.,Ltd	SUR.:N/A	Shielding Angle:N/A

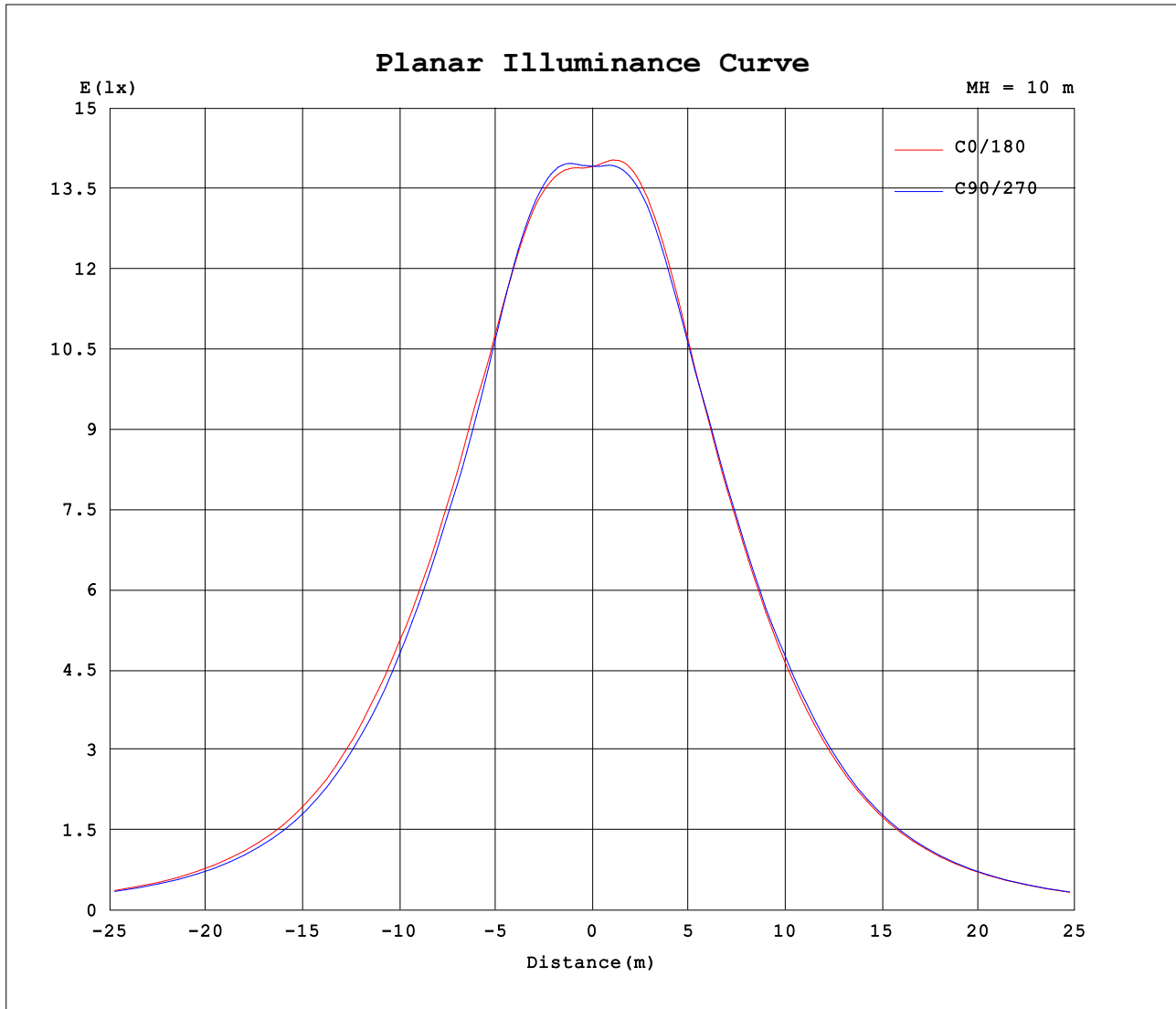
AvgL	cd/m2
L_0~180 (65) av	18646
L_0~180 (75) av	18018
L_0~180 (85) av	31093
L_90~270 (65) av	18135
L_90~270 (75) av	17725
L_90~270 (85) av	31617
L_45 (65) av	18359
L_45 (75) av	17889
L_45 (85) av	31292

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:CL
Test Date:04 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: 04 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:120.18V I:0.3513A P:42.117W PF:0.9975 Freq:59.98Hz Lamp Flux:5760.97x1 lm		
NAME: LED Explosion-proof Flood Light	TYPE:Floodlight	WEIGHT:N/A
SPEC.:40W/Lumileds 5050/5000K	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: 04 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:120.18V I:0.3513A P:42.117W PF:0.9975 Freq:59.98Hz Lamp Flux:5760.97x1 lm		
NAME: LED Explosion-proof Flood Light	TYPE:Floodlight	WEIGHT:N/A
SPEC.:40W/Lumileds 5050/5000K	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: 04 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:

```