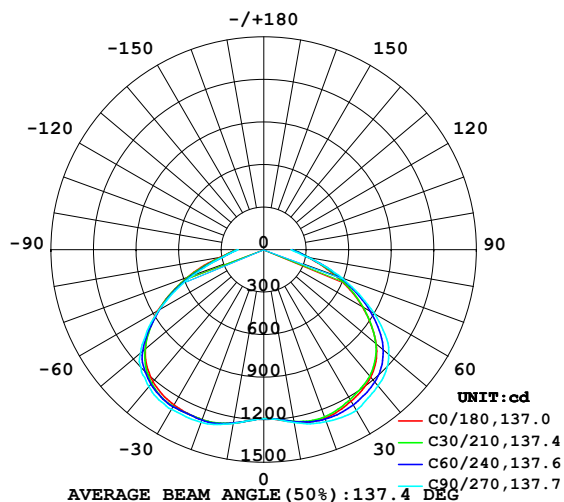


LUMINAIRE PHOTOMETRIC TEST REPORT

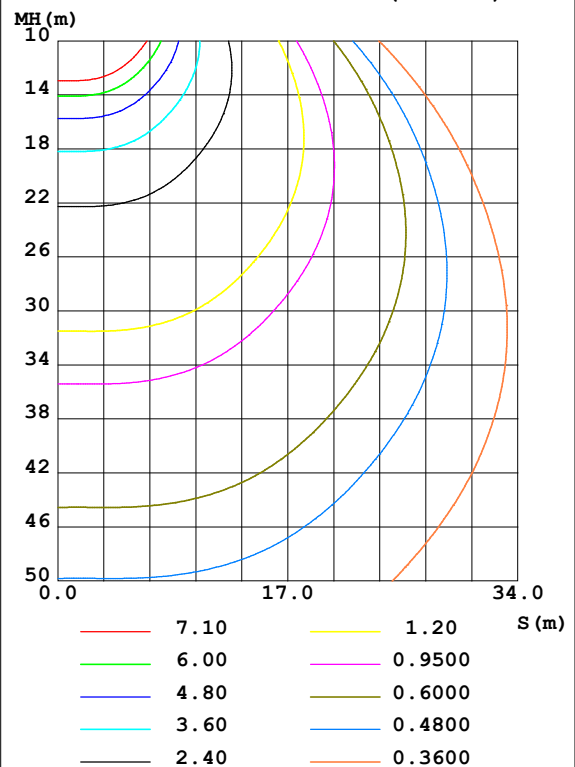
Test:U:479.94V I:0.0866A P:39.512W PF:0.9506 Freq:59.98Hz Lamp Flux:5058.18x1 lm		
NAME: LED Explosion-proof Flood Light	TYPE:Floodlight	WEIGHT:N/A
SPEC.:40W/Lumileds 5050/5000K	DIM.: 265*265*150mm	SERIAL No.:N/A
MFR.: NJZ Lighting Technology Co.,Ltd	SUR.:N/A	Shielding Angle:N/A

DATA OF LAMP		PHOTOMETRIC DATA Eff: 128.02 lm/W			
MODEL:LED-D-40-V04-RZ-DL01-480		Imax(cd)	1323	S/MH(C0/180)	1.58
NOMINAL POWER(W)	40	LOR(%)	100.0	S/MH(C90/270)	1.62
RATED VOLTAGE(V)	480	TOTAL FLUX(lm)	5058.2	η UP,DN(C0-180)	0.0,50.0
NOMINAL FLUX(lm)	5058.18	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,50.0
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.75
TEST VOLTAGE(V)	480	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: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	1234	1228	1237	1245	1243	1241	1244	1247	0- 10	116.4	116.4	2.3,2.3
20	1266	1261	1291	1278	1276	1276	1296	1302	10- 20	359.4	475.7	9.41,9.41
30	1234	1239	1308	1268	1265	1280	1302	1308	20- 30	592.3	1068	21.1,21.1
40	1174	1186	1253	1225	1215	1241	1260	1258	30- 40	787.3	1855	36.7,36.7
50	1034	1059	1150	1118	1091	1105	1136	1122	40- 50	908.0	2763	54.6,54.6
60	803.5	842.3	898.8	896.1	864.9	858.0	854.5	859.7	50- 60	883.2	3647	72.1,72.1
70	538.9	560.4	589.3	577.2	574.4	556.7	531.3	532.4	60- 70	701.0	4348	86,86
80	317.6	324.1	315.7	307.9	310.2	292.4	284.8	297.5	70- 80	447.3	4795	94.8,94.8
90	202.9	203.4	191.8	191.4	195.2	188.0	182.2	190.1	80- 90	263.3	5058	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): 2301.2 lm

%lum = 45.5%

%lamp = 45.5%

Conical surface Flux(120deg): 3646.6 lm

%lum = 72.1%

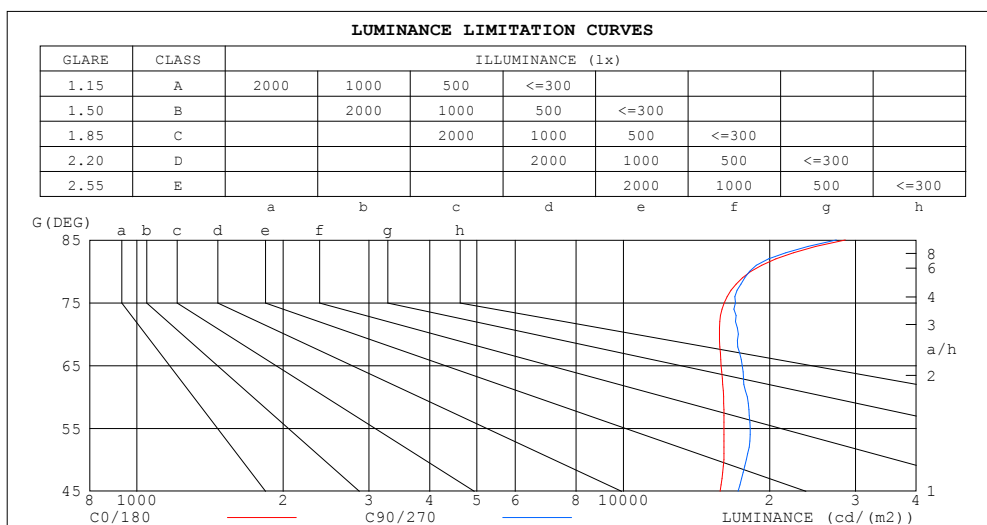
%lamp = 72.1%

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:

LUMINANCE LIMITATION CURVES

Test:U:479.94V I:0.0866A P:39.512W PF:0.9506 Freq:59.98Hz Lamp Flux:5058.18x1 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	28577	27425
80	18290	18179
75	16122	16996
70	15757	17229
65	15890	17562
60	16069	17975
55	16113	18229
50	16093	17898
45	15818	17208

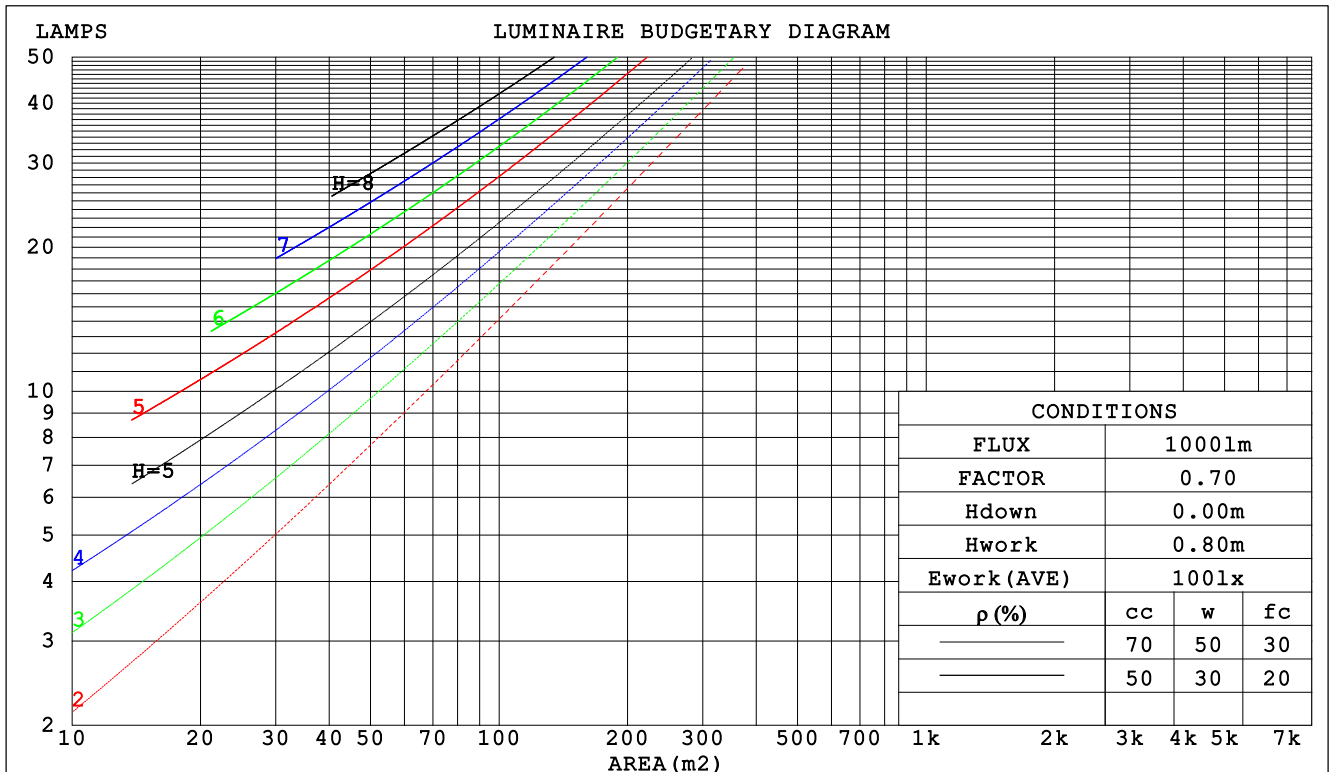
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:CL
Test Date:04 December 2018

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:479.94V I:0.0866A P:39.512W PF:0.9506 Freq:59.98Hz Lamp Flux:5058.18x1 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															



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:479.94V I:0.0866A P:39.512W PF:0.9506 Freq:59.98Hz Lamp Flux:5058.18x1 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	.363	.206	.065	.355	.203	.064	.342	.196	.063	.329	.190	.061	.318	.184	.059		
2.0	.327	.179	.055	.320	.176	.054	.308	.171	.053	.297	.167	.052	.287	.162	.051		
3.0	.296	.157	.047	.290	.155	.047	.280	.151	.046	.270	.148	.045	.261	.144	.045		
4.0	.269	.140	.041	.264	.138	.041	.255	.135	.040	.246	.132	.040	.238	.129	.039		
5.0	.247	.126	.036	.242	.124	.036	.234	.122	.036	.226	.119	.035	.219	.117	.035		
6.0	.227	.114	.033	.223	.113	.032	.216	.111	.032	.209	.108	.032	.202	.106	.032		
7.0	.210	.104	.029	.207	.103	.029	.200	.101	.029	.194	.099	.029	.188	.098	.029		
8.0	.195	.095	.027	.192	.095	.027	.186	.093	.027	.181	.091	.026	.175	.090	.026		
9.0	.182	.088	.025	.179	.087	.025	.174	.086	.024	.169	.085	.024	.164	.083	.024		
10.0	.171	.082	.023	.168	.081	.023	.163	.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	.057	.060	.046	.033	.019	.015	.011	
3.0	.169	.114	.071	.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	.132	.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	.020	.048	.027	.012	.016	.009	.004	
8.0	.133	.070	.027	.114	.061	.024	.079	.043	.017	.046	.025	.010	.015	.008	.003	
9.0	.127	.065	.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: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:479.94V I:0.0866A P:39.512W PF:0.9506 Freq:59.98Hz Lamp Flux:5058.18x1 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	16.9	18.5	17.2	18.7	19.0	17.5	19.1	17.8	19.3	19.5
3H	18.7	20.2	19.0	20.4	20.7	19.2	20.7	19.5	21.0	21.2
4H	19.5	20.9	19.8	21.2	21.5	20.0	21.4	20.3	21.7	22.0
6H	20.3	21.6	20.6	21.9	22.2	20.7	22.1	21.0	22.3	22.6
8H	20.7	22.0	21.0	22.3	22.6	21.0	22.3	21.4	22.6	22.9
12H	21.2	22.4	21.5	22.7	23.0	21.4	22.7	21.8	23.0	23.3
4H 2H	17.7	19.1	18.0	19.4	19.6	18.1	19.5	18.4	19.8	20.1
3H	19.6	20.9	20.0	21.2	21.5	20.0	21.3	20.4	21.6	21.9
4H	20.6	21.7	20.9	22.1	22.4	21.0	22.1	21.3	22.5	22.8
6H	21.5	22.6	21.9	22.9	23.3	21.8	22.9	22.2	23.2	23.6
8H	22.0	23.0	22.4	23.4	23.8	22.3	23.2	22.7	23.6	24.0
12H	22.6	23.5	23.0	23.9	24.3	22.8	23.7	23.2	24.1	24.5
8H 4H	21.0	22.0	21.4	22.3	22.7	21.3	22.3	21.7	22.7	23.1
6H	22.2	23.0	22.6	23.4	23.8	22.4	23.2	22.9	23.6	24.1
8H	22.8	23.6	23.3	24.0	24.5	23.0	23.7	23.5	24.2	24.6
12H	23.6	24.3	24.1	24.7	25.2	23.7	24.4	24.2	24.8	25.3
12H 4H	21.0	21.9	21.5	22.3	22.7	21.4	22.3	21.8	22.7	23.1
6H	22.3	23.1	22.8	23.5	23.9	22.6	23.3	23.0	23.7	24.2
8H	23.1	23.7	23.6	24.2	24.7	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 / - 0.1				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.4					+ 0.2 / - 0.4				

CIE Pub.117, 5058 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 5.6$)

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:479.94V I:0.0866A P:39.512W PF:0.9506 Freq:59.98Hz Lamp Flux:5058.18x1 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

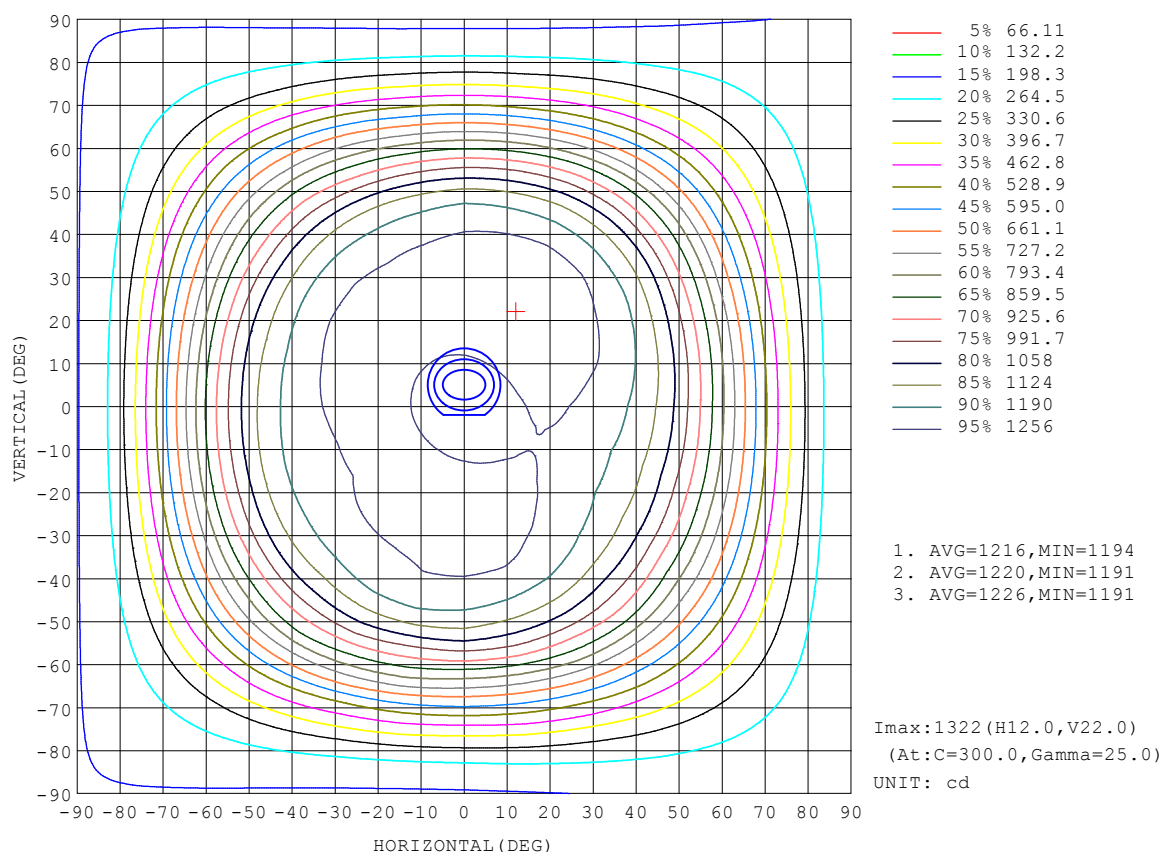
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	53	40	33	52	40	33	51	40	33	26
0.80	63	50	42	62	50	42	60	49	42	34
1.00	72	59	51	70	59	51	68	60	51	43
1.25	79	67	59	77	67	59	75	65	58	50
1.50	84	73	65	82	72	65	79	70	64	55
2.00	91	82	74	90	81	74	86	78	72	64
2.50	96	87	80	94	85	79	90	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	88	78
5.00	106	101	96	104	99	94	99	95	91	82
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: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:479.94V I:0.0866A P:39.512W PF:0.9506 Freq:59.98Hz Lamp Flux:5058.18x1 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



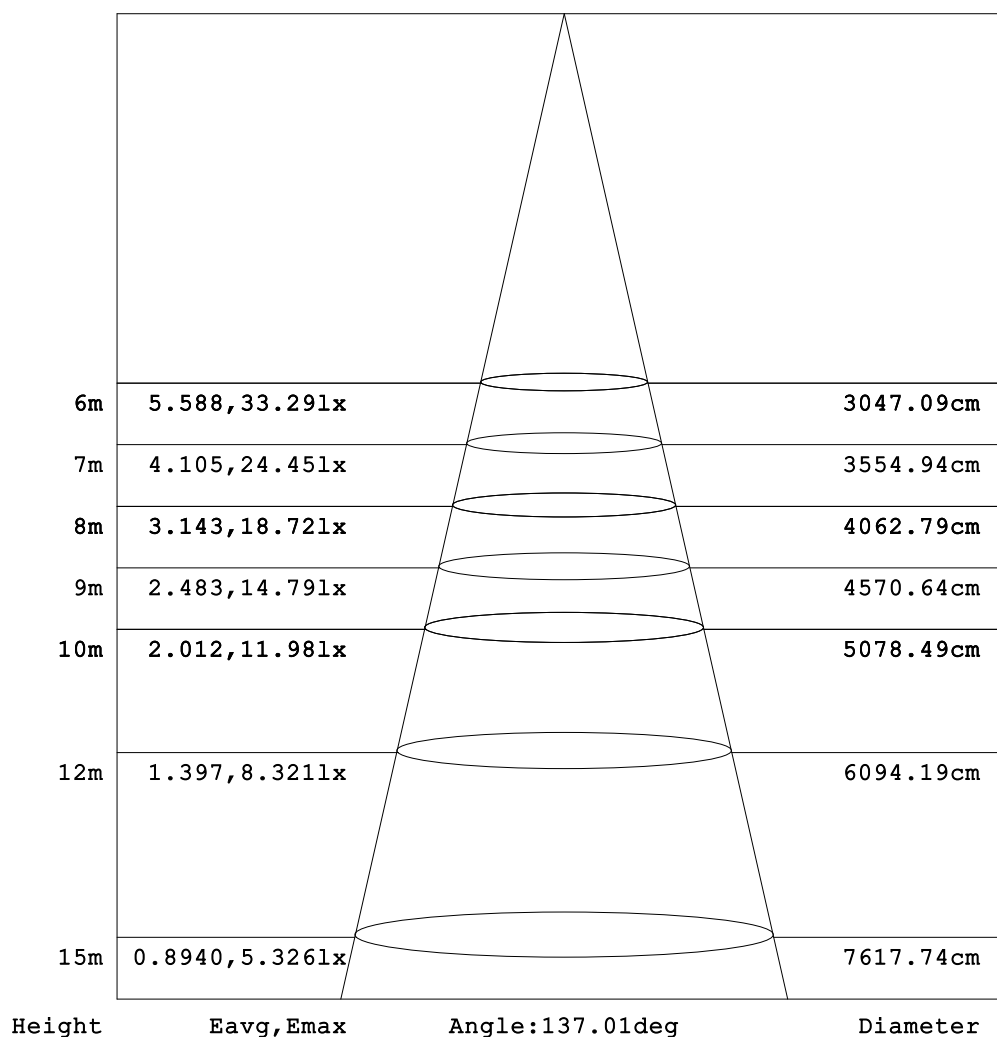
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:CL
Test Date:04 December 2018

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:479.94V I:0.0866A P:39.512W PF:0.9506 Freq:59.98Hz Lamp Flux:5058.18x1 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:4289 lm



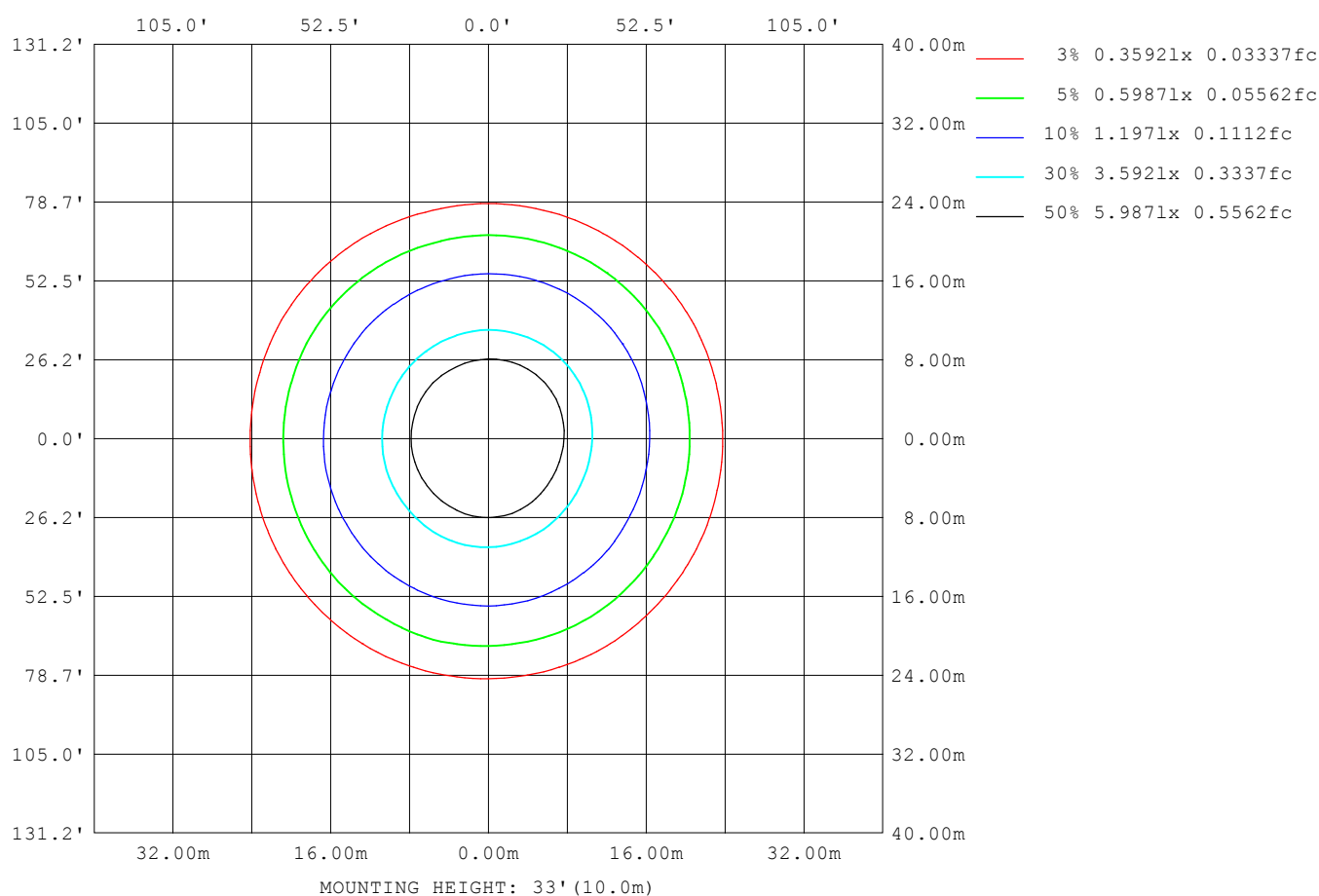
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:479.94V I:0.0866A P:39.512W PF:0.9506 Freq:59.98Hz Lamp Flux:5058.18x1 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:479.94V I:0.0866A P:39.512W PF:0.9506 Freq:59.98Hz Lamp Flux:5058.18x1 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

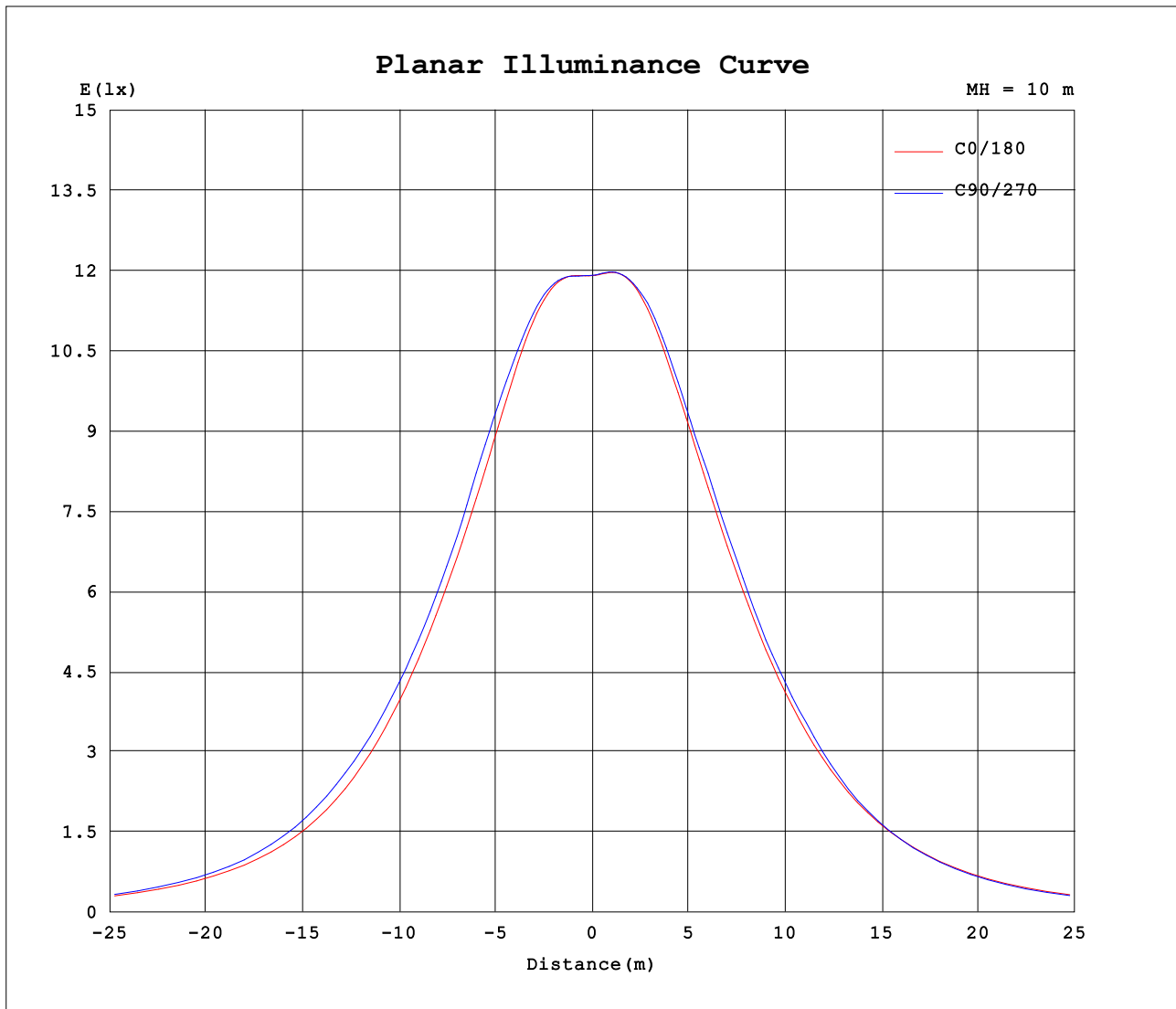
AvgL	cd/m2
L_0~180 (65) av	16425
L_0~180 (75) av	16471
L_0~180 (85) av	28010
L_90~270 (65) av	16957
L_90~270 (75) av	16059
L_90~270 (85) av	26543
L_45 (65) av	16823
L_45 (75) av	16128
L_45 (85) av	27284

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:479.94V I:0.0866A P:39.512W PF:0.9506 Freq:59.98Hz Lamp Flux:5058.18x1 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:479.94V I:0.0866A P:39.512W PF:0.9506 Freq:59.98Hz Lamp Flux:5058.18x1 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:

```