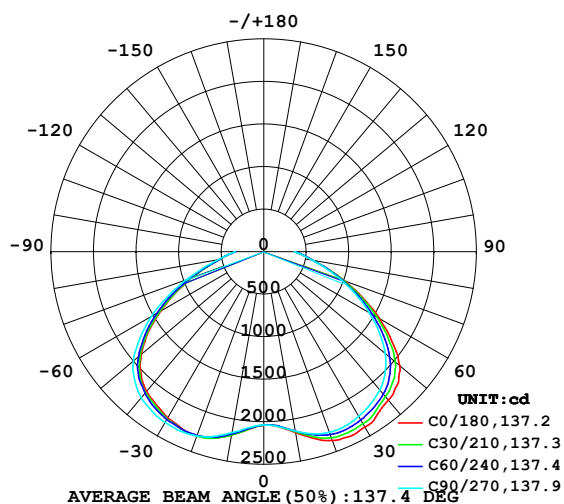


LUMINAIRE PHOTOMETRIC TEST REPORT

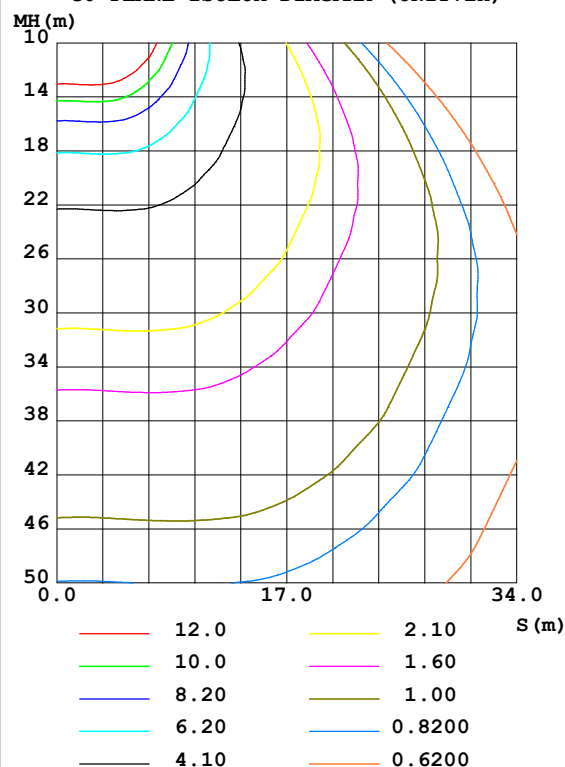
Test:U:119.99V I:0.5428A P:64.971W PF:0.9975 Freq:59.98Hz Lamp Flux:8961.26x1 lm		
NAME: LED Explosion-proof Flood Light	TYPE:Floodlight	WEIGHT:N/A
SPEC.:65W/Lumileds 5050/5000K	DIM.: 265*265*150mm	SERIAL No.:N/A
MFR.: NJZ Lighting Technology Co.,Ltd	SUR.:N/A	Shielding Angle:N/A

DATA OF LAMP		PHOTOMETRIC DATA Eff: 137.93 lm/W			
MODEL	FEL-D-65-3	Imax(cd)	2416	S/MH(C0/180)	1.61
NOMINAL POWER(W)	65	LOR(%)	100.0	S/MH(C90/270)	1.67
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	8961.3	η UP,DN(C0-180)	0.0,49.6
NOMINAL FLUX(lm)	8961.26	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,50.4
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.75
TEST VOLTAGE(V)	120	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:29 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	2158	2142	2141	2161	2189	2185	2161	2153	0- 10	200.9	200.9	2.24, 2.24
20	2361	2307	2259	2261	2301	2304	2304	2346	10- 20	638.2	839.2	9.36, 9.36
30	2380	2309	2234	2209	2257	2276	2318	2393	20- 30	1070	1909	21.3, 21.3
40	2280	2212	2123	2097	2144	2162	2240	2317	30- 40	1413	3322	37.1, 37.1
50	2089	1978	1862	1848	1880	1901	2001	2074	40- 50	1619	4941	55.1, 55.1
60	1569	1512	1431	1408	1401	1420	1526	1591	50- 60	1547	6489	72.4, 72.4
70	1011	997.4	966.0	925.5	897.7	904.3	969.7	1022	60- 70	1207	7695	85.9, 85.9
80	581.2	589.2	575.7	545.5	532.7	523.3	535.6	567.6	70- 80	784.6	8480	94.6, 94.6
90	357.4	365.6	360.0	344.9	336.4	330.0	335.3	348.6	80- 90	481.4	8961	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): 4119.5 lm

%lum = 46.0%

%lamp = 46.0%

Conical surface Flux(120deg): 6488.8 lm

%lum = 72.4%

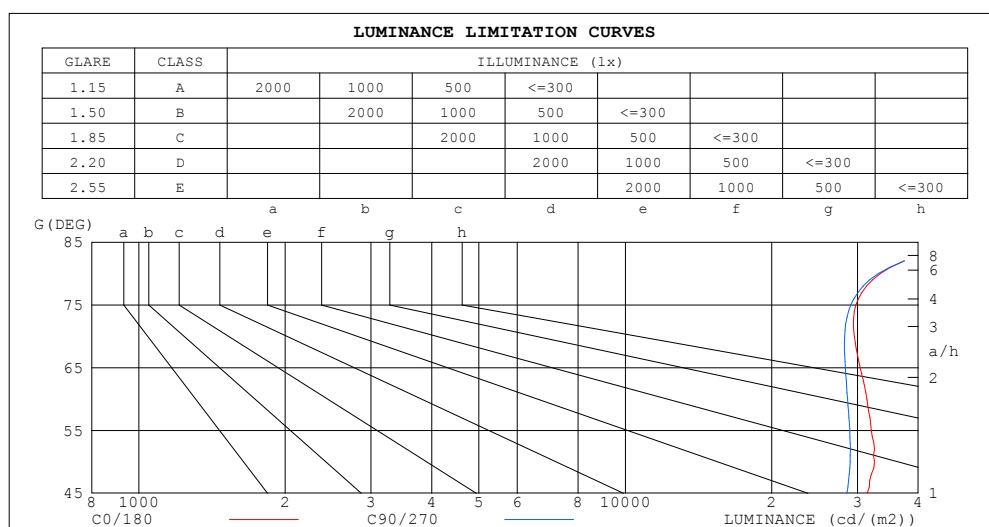
%lamp = 72.4%

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: CL
 Test Date: 29 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:119.99V I:0.5428A P:64.971W PF:0.9975 Freq:59.98Hz Lamp Flux:8961.26x1 lm		
NAME: LED Explosion-proof Flood Light	TYPE:Floodlight	WEIGHT:N/A
SPEC.:65W/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	51919	52314
80	33471	33152
75	29805	29066
70	29546	28244
65	30380	28333
60	31384	28627
55	32042	28933
50	32502	28971
45	31392	28543

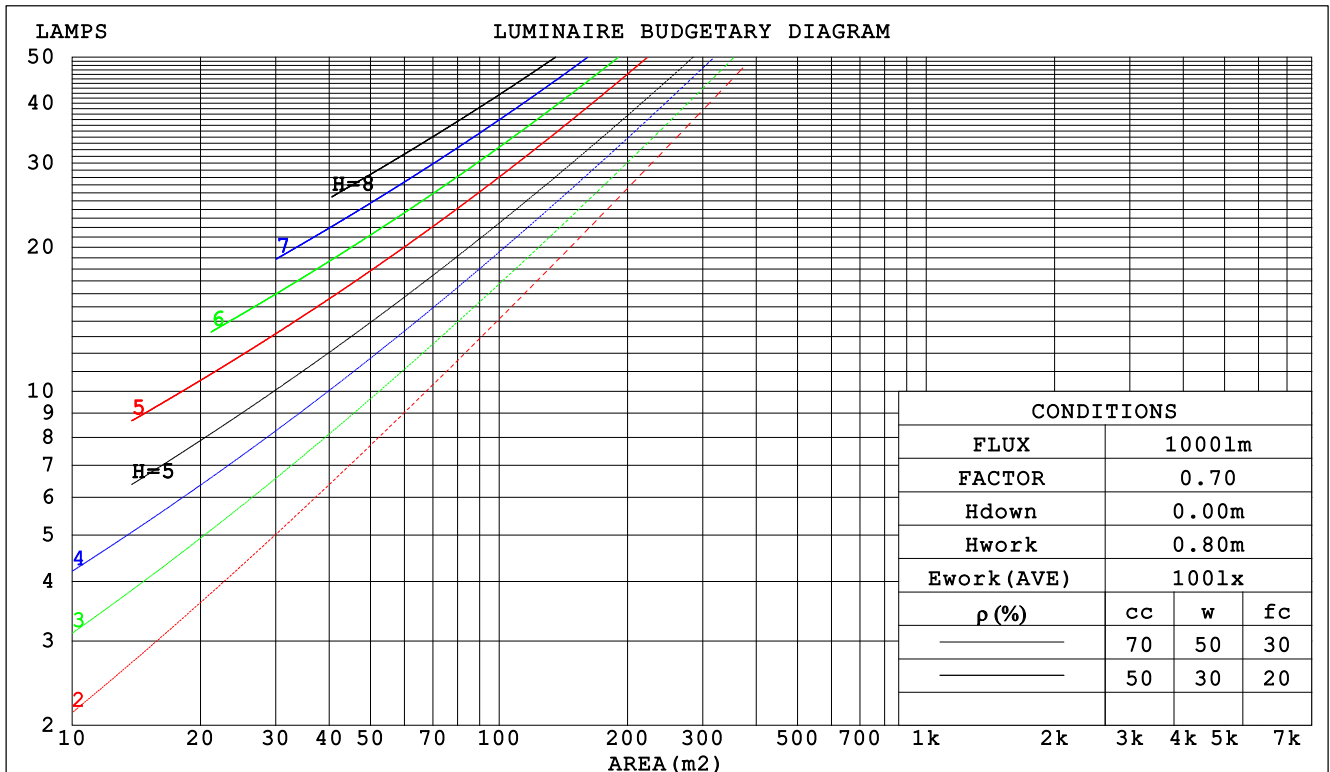
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:CL
Test Date:29 December 2018

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:119.99V I:0.5428A P:64.971W PF:0.9975 Freq:59.98Hz Lamp Flux:8961.26x1 lm		
NAME: LED Explosion-proof Flood Light	TYPE:Floodlight	WEIGHT:N/A
SPEC.:65W/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:29 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:119.99V I:0.5428A P:64.971W PF:0.9975 Freq:59.98Hz Lamp Flux:8961.26x1 lm		
NAME: LED Explosion-proof Flood Light	TYPE:Floodlight	WEIGHT:N/A
SPEC.:65W/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	.356	.203	.064	.342	.196	.063	.330	.190	.061	.318	.184	.059	
2.0	.326	.179	.055	.320	.176	.054	.308	.171	.053	.297	.166	.052	.286	.162	.051	
3.0	.295	.157	.047	.290	.155	.047	.279	.151	.046	.269	.147	.045	.260	.144	.045	
4.0	.269	.140	.041	.264	.138	.041	.254	.135	.040	.245	.132	.040	.237	.129	.039	
5.0	.246	.125	.036	.242	.124	.036	.233	.121	.036	.225	.119	.035	.218	.117	.035	
6.0	.227	.114	.033	.223	.112	.032	.215	.110	.032	.208	.108	.032	.202	.106	.032	
7.0	.210	.104	.029	.206	.103	.029	.200	.101	.029	.193	.099	.029	.187	.097	.029	
8.0	.195	.095	.027	.192	.094	.027	.186	.093	.027	.180	.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	.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	.077	.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	.140	.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:29 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:119.99V I:0.5428A P:64.971W PF:0.9975 Freq:59.98Hz Lamp Flux:8961.26x1 lm										
NAME: LED Explosion-proof Flood Light					TYPE:Floodlight			WEIGHT:N/A		
SPEC.:65W/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	17.5	19.2	17.8	19.4	19.6	17.1	18.7	17.4	18.9	19.2
3H	19.2	20.7	19.5	20.9	21.2	18.8	20.3	19.1	20.6	20.8
4H	19.9	21.4	20.3	21.6	21.9	19.6	21.1	19.9	21.3	21.6
6H	20.7	22.0	21.0	22.3	22.6	20.4	21.8	20.7	22.0	22.3
8H	21.0	22.4	21.4	22.7	23.0	20.8	22.1	21.2	22.4	22.7
12H	21.5	22.8	21.9	23.1	23.4	21.3	22.6	21.7	22.9	23.2
4H 2H	18.1	19.6	18.5	19.8	20.1	17.8	19.3	18.1	19.5	19.8
3H	20.0	21.3	20.4	21.6	21.9	19.7	21.0	20.1	21.3	21.6
4H	20.9	22.1	21.3	22.4	22.8	20.7	21.9	21.1	22.2	22.5
6H	21.8	22.9	22.2	23.2	23.6	21.6	22.7	22.0	23.0	23.4
8H	22.3	23.3	22.7	23.7	24.1	22.2	23.1	22.6	23.5	23.9
12H	22.9	23.8	23.3	24.2	24.6	22.8	23.7	23.2	24.1	24.5
8H 4H	21.3	22.3	21.7	22.6	23.0	21.1	22.1	21.5	22.4	22.8
6H	22.4	23.3	22.9	23.7	24.1	22.3	23.1	22.7	23.5	24.0
8H	23.1	23.8	23.6	24.3	24.7	23.0	23.7	23.4	24.1	24.6
12H	23.9	24.5	24.4	25.0	25.5	23.8	24.5	24.3	24.9	25.4
12H 4H	21.3	22.2	21.8	22.6	23.0	21.1	22.1	21.6	22.4	22.9
6H	22.6	23.3	23.0	23.8	24.2	22.4	23.2	22.9	23.6	24.1
8H	23.3	24.0	23.8	24.4	24.9	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 / - 0.3				
2.0H	+ 0.1 / - 0.4					+ 0.1 / - 0.4				

CIE Pub.117, 8961 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 7.6$)

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:CL
Test Date:29 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:119.99V I:0.5428A P:64.971W PF:0.9975 Freq:59.98Hz Lamp Flux:8961.26x1 lm		
NAME: LED Explosion-proof Flood Light	TYPE:Floodlight	WEIGHT:N/A
SPEC.:65W/Lumileds 5050/5000K	DIM.: 265*265*150mm	SERIAL No.:N/A
MFR.: NJZ Lighting Technology Co.,Ltd	SUR.:N/A	Shielding Angle:N/A

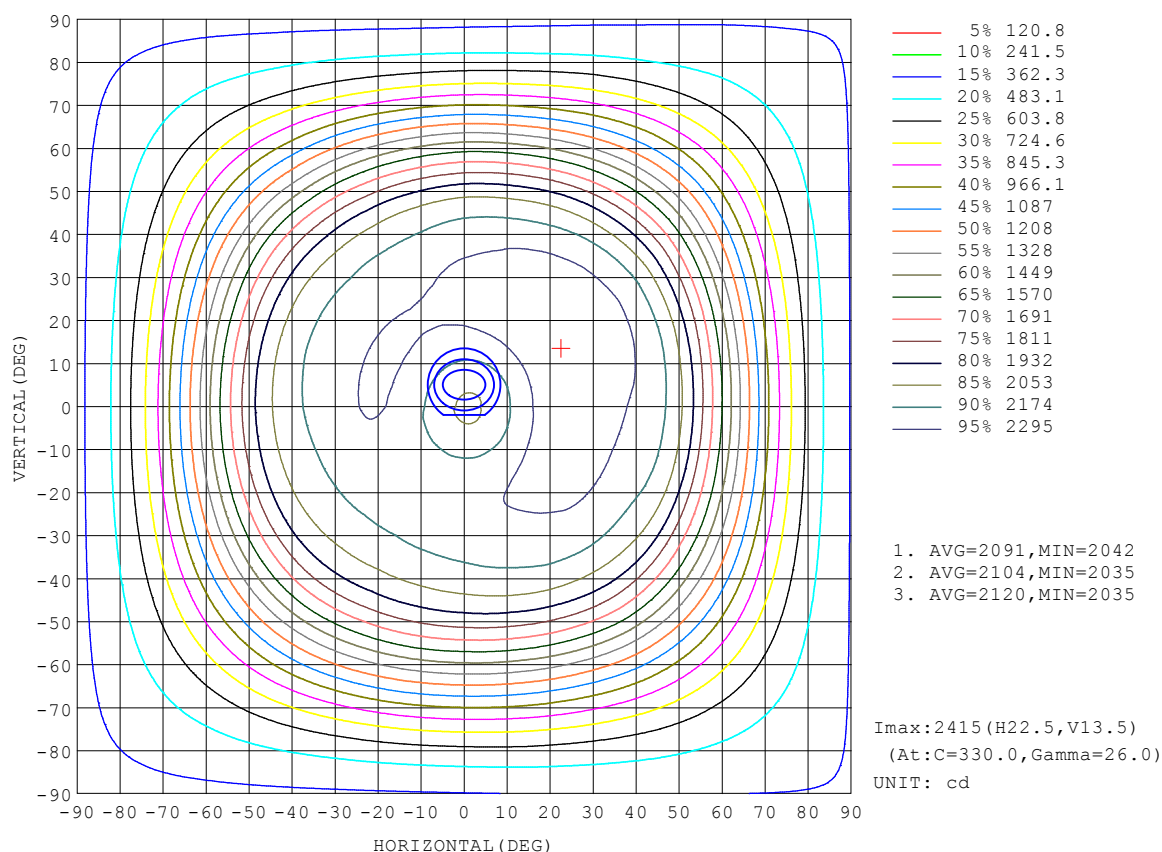
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	53	41	33	52	40	33	51	40	33	26
0.80	63	51	43	62	50	42	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	50
1.50	84	73	65	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	68
3.00	99	92	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					SHR NOM = 1.25		

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:CL
 Test Date:29 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:119.99V I:0.5428A P:64.971W PF:0.9975 Freq:59.98Hz Lamp Flux:8961.26x1 lm		
NAME: LED Explosion-proof Flood Light	TYPE:Floodlight	WEIGHT:N/A
SPEC.:65W/Lumileds 5050/5000K	DIM.: 265*265*150mm	SERIAL No.:N/A
MFR.: NJZ Lighting Technology Co.,Ltd	SUR.:N/A	Shielding Angle:N/A



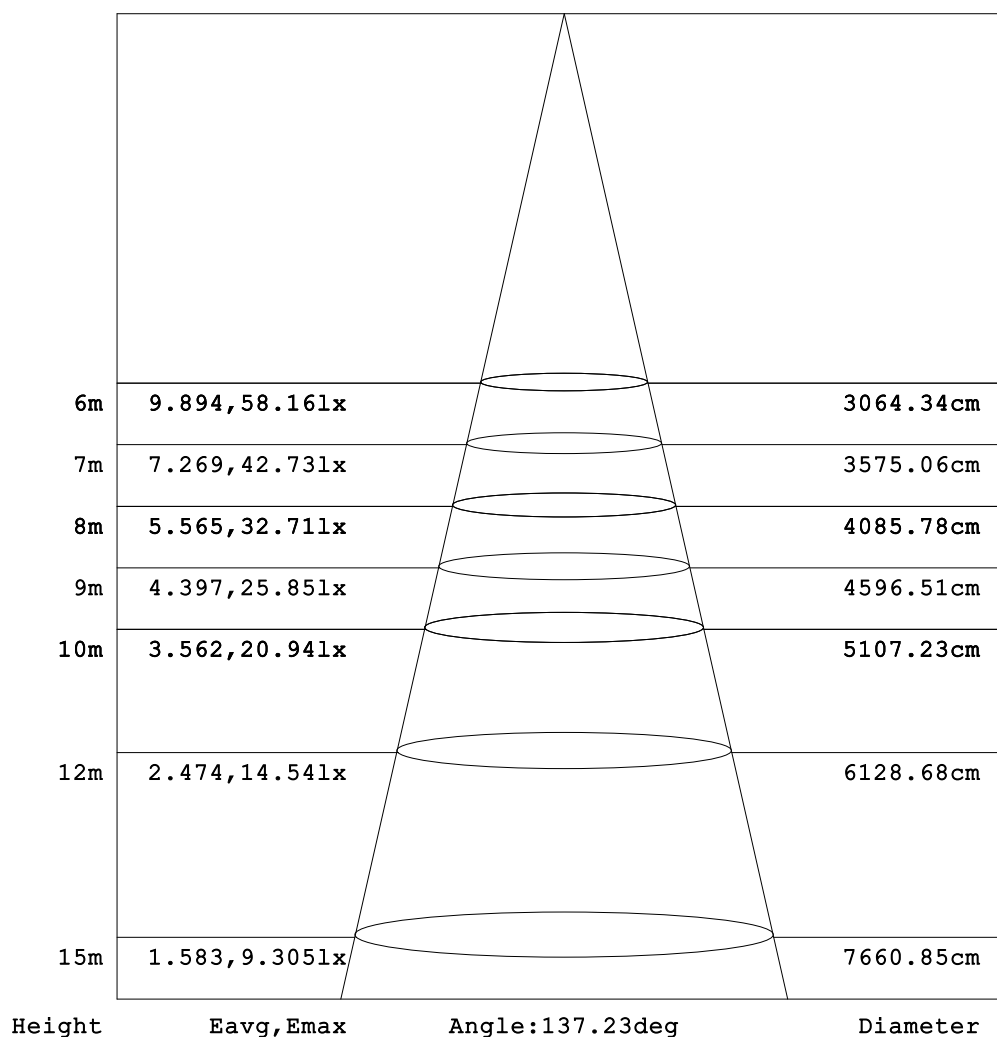
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:CL
Test Date:29 December 2018

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:119.99V I:0.5428A P:64.971W PF:0.9975 Freq:59.98Hz Lamp Flux:8961.26x1 lm		
NAME: LED Explosion-proof Flood Light	TYPE:Floodlight	WEIGHT:N/A
SPEC.:65W/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:7594 lm



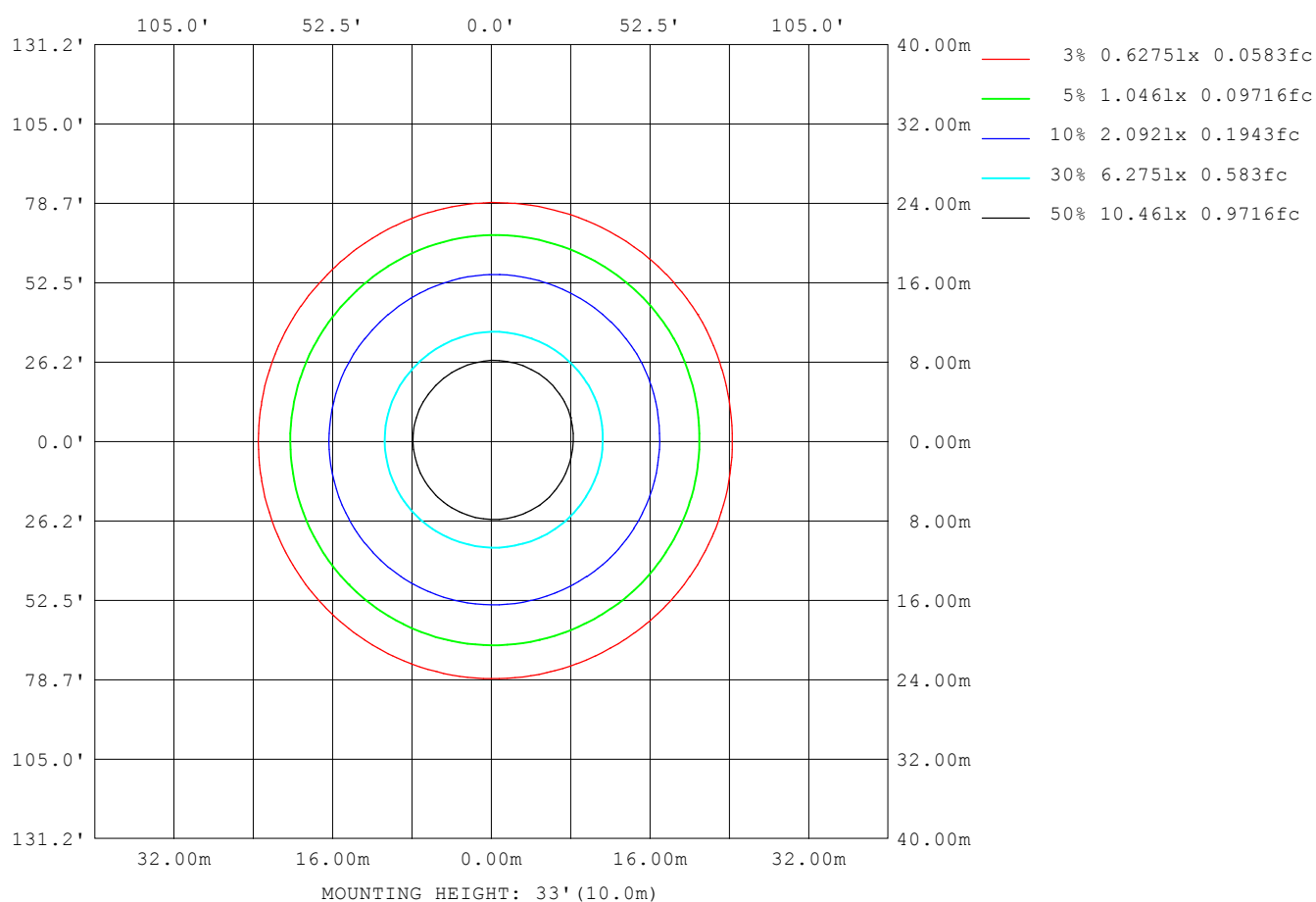
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:CL
Test Date:29 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:119.99V I:0.5428A P:64.971W PF:0.9975 Freq:59.98Hz Lamp Flux:8961.26x1 lm		
NAME: LED Explosion-proof Flood Light	TYPE:Floodlight	WEIGHT:N/A
SPEC.:65W/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:29 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:119.99V I:0.5428A P:64.971W PF:0.9975 Freq:59.98Hz Lamp Flux:8961.26x1 lm		
NAME: LED Explosion-proof Flood Light	TYPE:Floodlight	WEIGHT:N/A
SPEC.:65W/Lumileds 5050/5000K	DIM.: 265*265*150mm	SERIAL No.:N/A
MFR.: NJZ Lighting Technology Co.,Ltd	SUR.:N/A	Shielding Angle:N/A

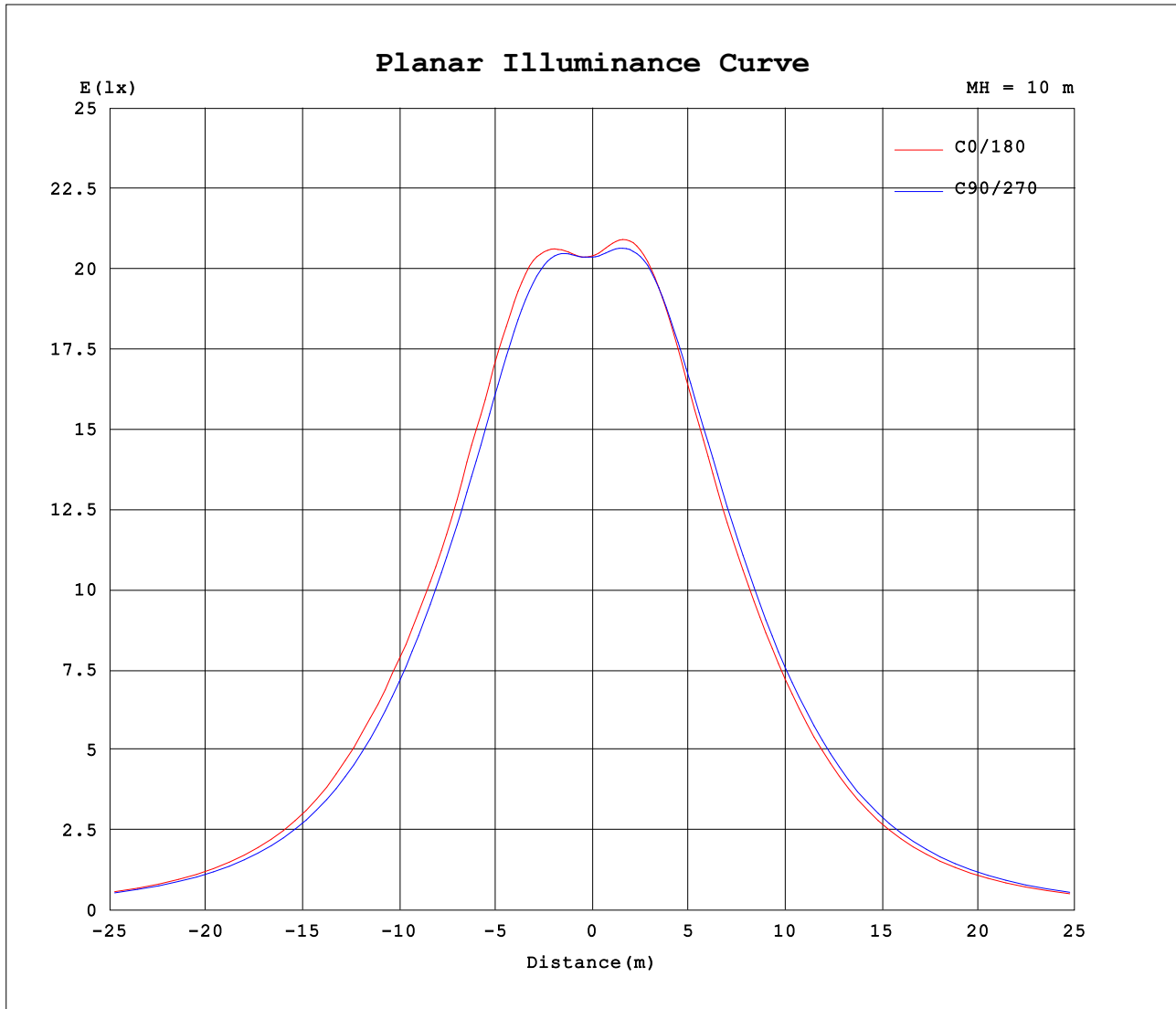
AvgL	cd/m2
L_0~180 (65) av	28692
L_0~180 (75) av	28263
L_0~180 (85) av	50270
L_90~270 (65) av	28931
L_90~270 (75) av	28535
L_90~270 (85) av	50417
L_45 (65) av	28797
L_45 (75) av	28439
L_45 (85) av	50273

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:CL
Test Date:29 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: 29 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:119.99V I:0.5428A P:64.971W PF:0.9975 Freq:59.98Hz Lamp Flux:8961.26x1 lm		
NAME: LED Explosion-proof Flood Light	TYPE:Floodlight	WEIGHT:N/A
SPEC.:65W/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: 29 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:119.99V I:0.5428A P:64.971W PF:0.9975 Freq:59.98Hz Lamp Flux:8961.26x1 lm		
NAME: LED Explosion-proof Flood Light	TYPE:Floodlight	WEIGHT:N/A
SPEC.:65W/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: 29 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:

```