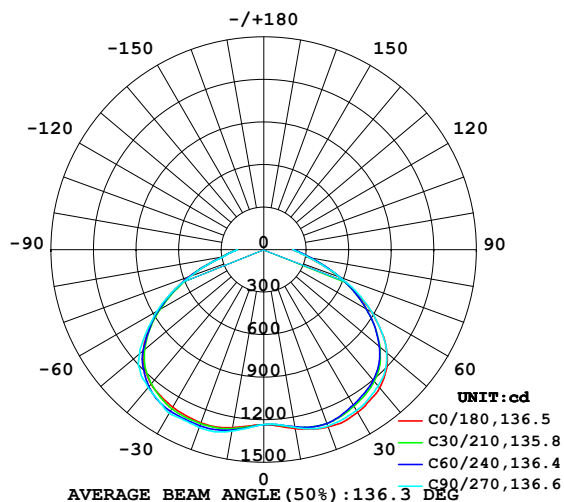


LUMINAIRE PHOTOMETRIC TEST REPORT

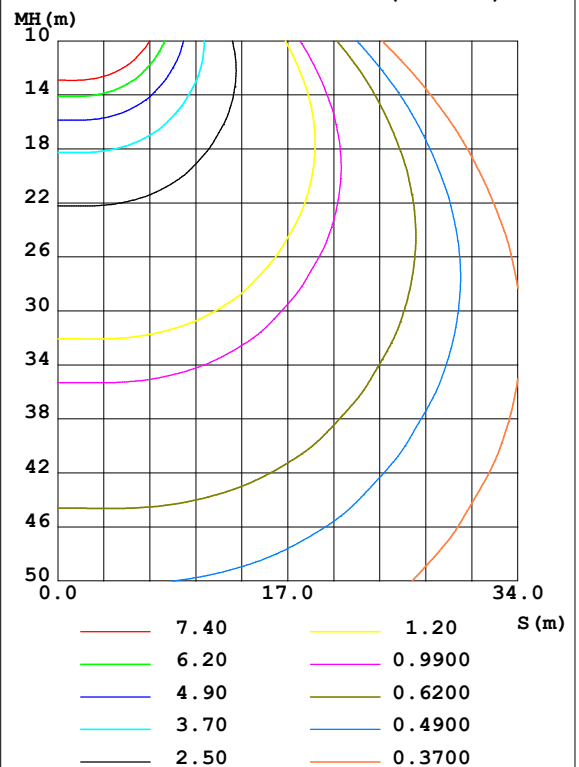
Test:U:480.08V I:0.0871A P:39.748W PF:0.9510 Freq:59.98Hz Lamp Flux:5166.67x1 lm		
NAME: LED Explosion-proof Flood Light	TYPE:Floodlight	WEIGHT:N/A
SPEC.:40W/Lumileds 5050/4000K	DIM.: 265*265*150mm	SERIAL No.:N/A
MFR.: NJZ Lighting Technology Co.,Ltd	SUR.:N/A	Shielding Angle:N/A

DATA OF LAMP		PHOTOMETRIC DATA Eff: 129.99 lm/W			
MODEL:LED-D-40-V04-RL-DL01-480		Imax(cd)	1370	S/MH(C0/180)	1.56
NOMINAL POWER(W)	40	LOR(%)	100.0	S/MH(C90/270)	1.59
RATED VOLTAGE(V)	480	TOTAL FLUX(lm)	5166.7	η UP,DN(C0-180)	0.0,50.0
NOMINAL FLUX(lm)	5166.67	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	1281	1268	1273	1274	1274	1287	1298	1297	0- 10	120.3	120.3	2.33,2.33
20	1330	1299	1323	1325	1299	1313	1333	1355	10- 20	371.1	491.5	9.51,9.51
30	1324	1259	1309	1345	1283	1306	1332	1361	20- 30	611.1	1103	21.3,21.3
40	1271	1196	1255	1279	1237	1244	1269	1304	30- 40	809.4	1912	37,37
50	1136	1057	1132	1169	1110	1098	1145	1178	40- 50	930.1	2842	55,55
60	876.3	830.7	878.4	893.7	859.0	838.8	871.2	896.9	50- 60	899.0	3741	72.4,72.4
70	568.6	569.8	569.4	572.7	560.2	557.6	548.1	553.2	60- 70	708.7	4450	86.1,86.1
80	321.8	338.6	325.2	302.1	295.8	294.4	291.4	298.8	70- 80	449.8	4900	94.8,94.8
90	201.4	212.8	203.8	188.2	188.9	189.3	185.5	187.0	80- 90	267.1	5167	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): 2369 lm

%lum = 45.9%

%lamp = 45.9%

Conical surface Flux(120deg): 3741 lm

%lum = 72.4%

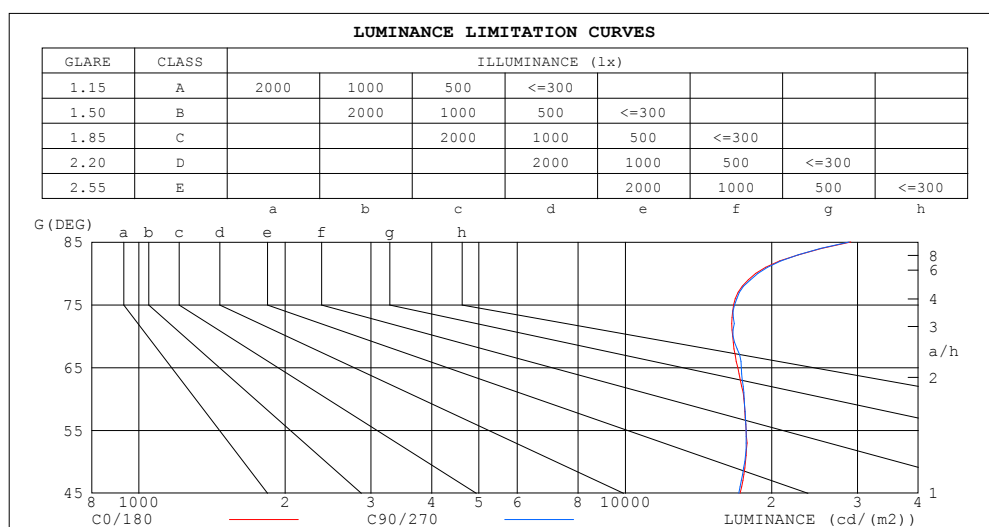
%lamp = 72.4%

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:CL
 Test Date: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:480.08V I:0.0871A P:39.748W PF:0.9510 Freq:59.98Hz Lamp Flux:5166.67x1 lm		
NAME: LED Explosion-proof Flood Light	TYPE:Floodlight	WEIGHT:N/A
SPEC.:40W/Lumileds 5050/4000K	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	29080	28876
80	18534	18728
75	16701	16774
70	16625	16648
65	17024	17318
60	17527	17568
55	17704	17729
50	17676	17606
45	17221	17114

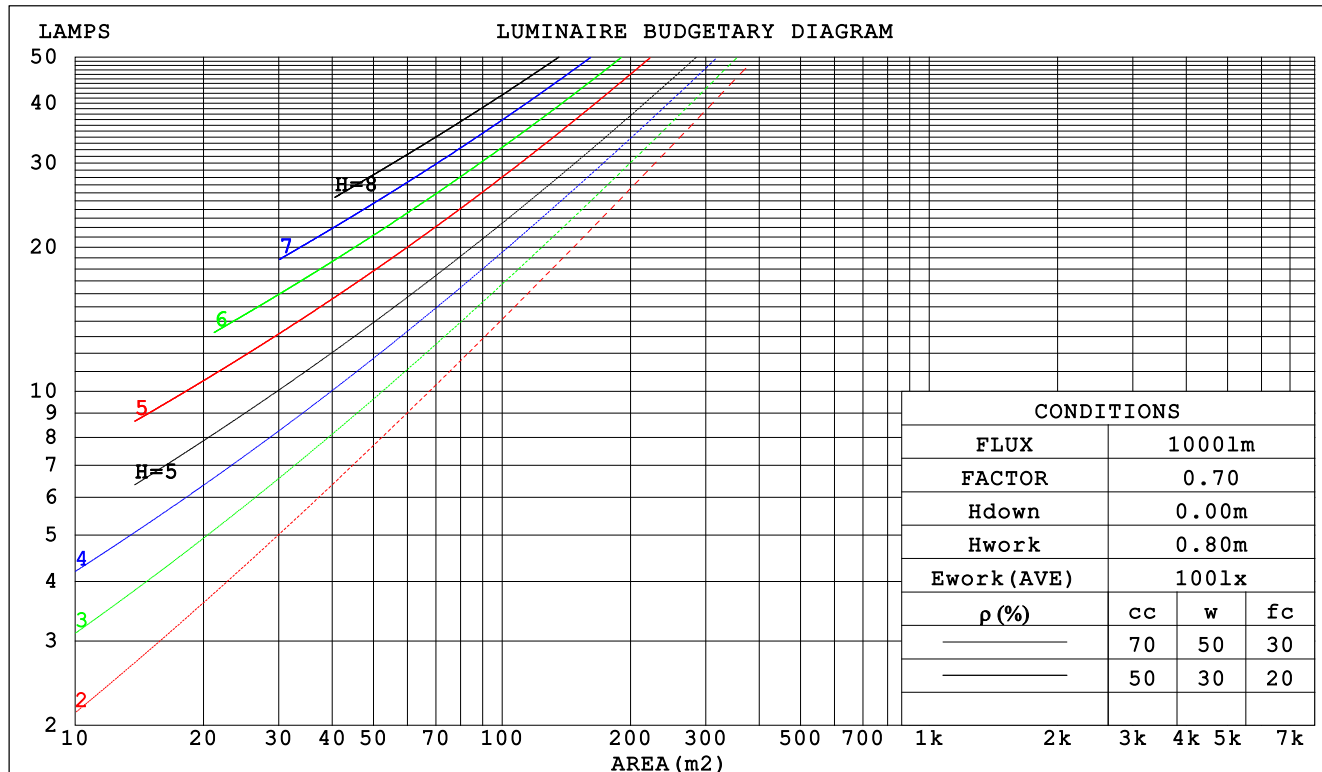
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:CL
Test Date:04 December 2018

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:480.08V I:0.0871A P:39.748W PF:0.9510 Freq:59.98Hz Lamp Flux:5166.67x1 lm		
NAME: LED Explosion-proof Flood Light	TYPE:Floodlight	WEIGHT:N/A
SPEC.:40W/Lumileds 5050/4000K	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	.75	.67	.59	.74	.66	.59	.71	.64	.58	.68	.62	.57	.65	.60	.56	.53
4.0	.66	.57	.49	.65	.56	.49	.62	.54	.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	.51	.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	.35	.31	.28
8.0	.43	.34	.28	.42	.34	.28	.41	.33	.27	.39	.32	.27	.38	.32	.27	.25
9.0	.39	.31	.25	.39	.30	.25	.37	.30	.24	.36	.29	.24	.35	.29	.24	.22
10.0	.36	.28	.22	.35	.27	.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: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:480.08V I:0.0871A P:39.748W PF:0.9510 Freq:59.98Hz Lamp Flux:5166.67x1 lm		
NAME: LED Explosion-proof Flood Light	TYPE:Floodlight	WEIGHT:N/A
SPEC.:40W/Lumileds 5050/4000K	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	.361	.205	.065	.354	.202	.064	.340	.195	.062	.328	.189	.061	.316	.183	.059		
2.0	.325	.178	.055	.319	.176	.054	.307	.171	.053	.296	.166	.052	.286	.162	.051		
3.0	.295	.157	.047	.289	.155	.047	.279	.151	.046	.269	.147	.045	.260	.144	.044		
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	.199	.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	.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	.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: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:480.08V I:0.0871A P:39.748W PF:0.9510 Freq:59.98Hz Lamp Flux:5166.67x1 lm										
NAME: LED Explosion-proof Flood Light					TYPE:Floodlight			WEIGHT:N/A		
SPEC.:40W/Lumileds 5050/4000K					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	17.1	18.8	17.4	19.0	19.2	17.2	18.8	17.4	19.0	19.2
3H	18.9	20.4	19.2	20.6	20.9	18.9	20.4	19.2	20.7	20.9
4H	19.7	21.1	20.0	21.4	21.6	19.7	21.2	20.0	21.4	21.7
6H	20.4	21.8	20.8	22.1	22.3	20.5	21.8	20.8	22.1	22.4
8H	20.8	22.1	21.1	22.4	22.7	20.8	22.2	21.2	22.4	22.7
12H	21.3	22.5	21.6	22.8	23.1	21.3	22.6	21.6	22.9	23.2
4H 2H	17.8	19.2	18.1	19.5	19.8	17.8	19.3	18.1	19.5	19.8
3H	19.7	21.0	20.1	21.3	21.6	19.8	21.1	20.1	21.4	21.7
4H	20.7	21.9	21.1	22.2	22.5	20.7	21.9	21.1	22.2	22.6
6H	21.6	22.7	22.0	23.0	23.4	21.7	22.7	22.1	23.1	23.4
8H	22.1	23.1	22.5	23.4	23.8	22.1	23.1	22.6	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	21.1	22.1	21.5	22.4	22.8	21.1	22.1	21.5	22.5	22.9
6H	22.2	23.1	22.7	23.5	23.9	22.3	23.1	22.7	23.5	24.0
8H	22.9	23.6	23.4	24.1	24.5	22.9	23.7	23.4	24.1	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	21.1	22.1	21.6	22.4	22.9	21.2	22.1	21.6	22.5	22.9
6H	22.4	23.1	22.9	23.6	24.0	22.4	23.2	22.9	23.6	24.1
8H	23.2	23.8	23.6	24.3	24.7	23.2	23.8	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 / - 0.3					+ 0.2 / - 0.3				

CIE Pub.117, 5167 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 5.7$)

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:480.08V I:0.0871A P:39.748W PF:0.9510 Freq:59.98Hz Lamp Flux:5166.67x1 lm		
NAME: LED Explosion-proof Flood Light	TYPE:Floodlight	WEIGHT:N/A
SPEC.:40W/Lumileds 5050/4000K	DIM.: 265*265*150mm	SERIAL No.:N/A
MFR.: NJZ Lighting Technology Co.,Ltd	SUR.:N/A	Shielding Angle:N/A

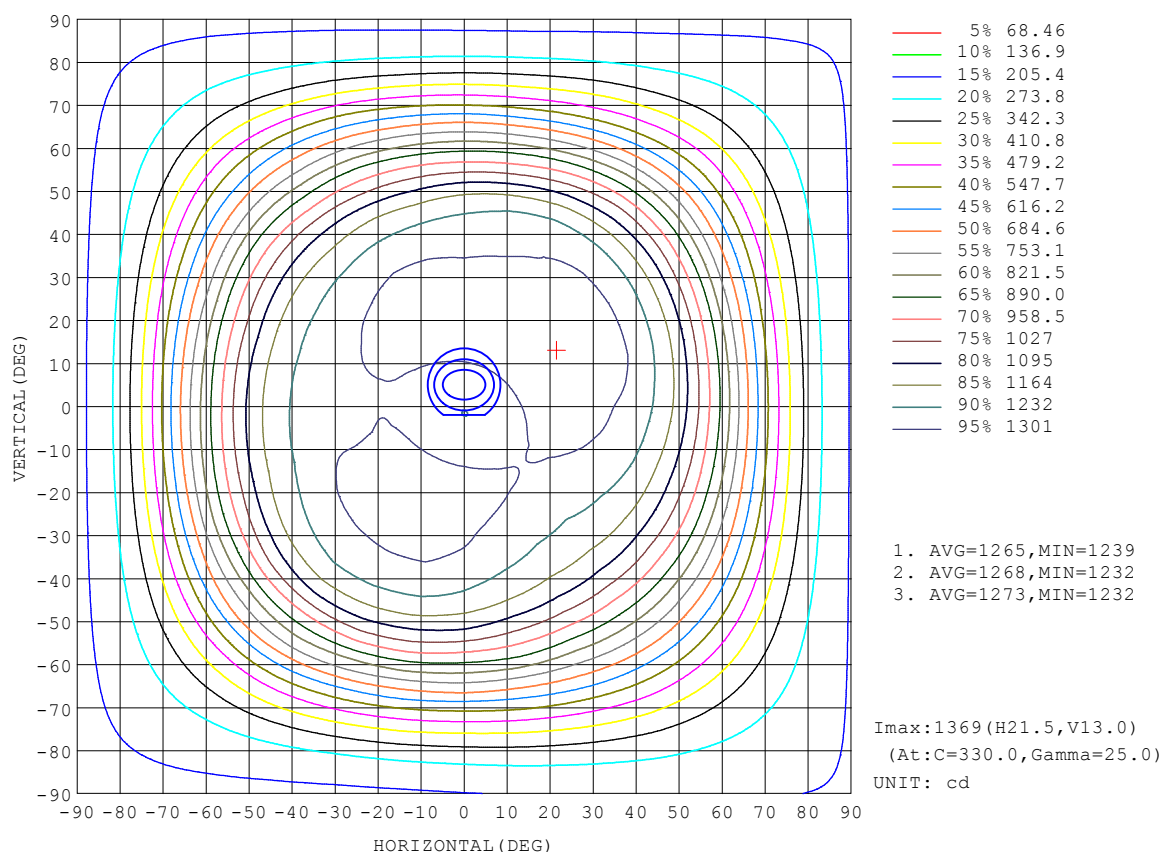
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	53	41	33	52	40	33	51	40	33	26
0.80	63	51	43	62	50	42	60	49	42	35
1.00	72	60	52	70	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	107	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: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:480.08V I:0.0871A P:39.748W PF:0.9510 Freq:59.98Hz Lamp Flux:5166.67x1 lm		
NAME: LED Explosion-proof Flood Light	TYPE:Floodlight	WEIGHT:N/A
SPEC.:40W/Lumileds 5050/4000K	DIM.: 265*265*150mm	SERIAL No.:N/A
MFR.: NJZ Lighting Technology Co.,Ltd	SUR.:N/A	Shielding Angle:N/A



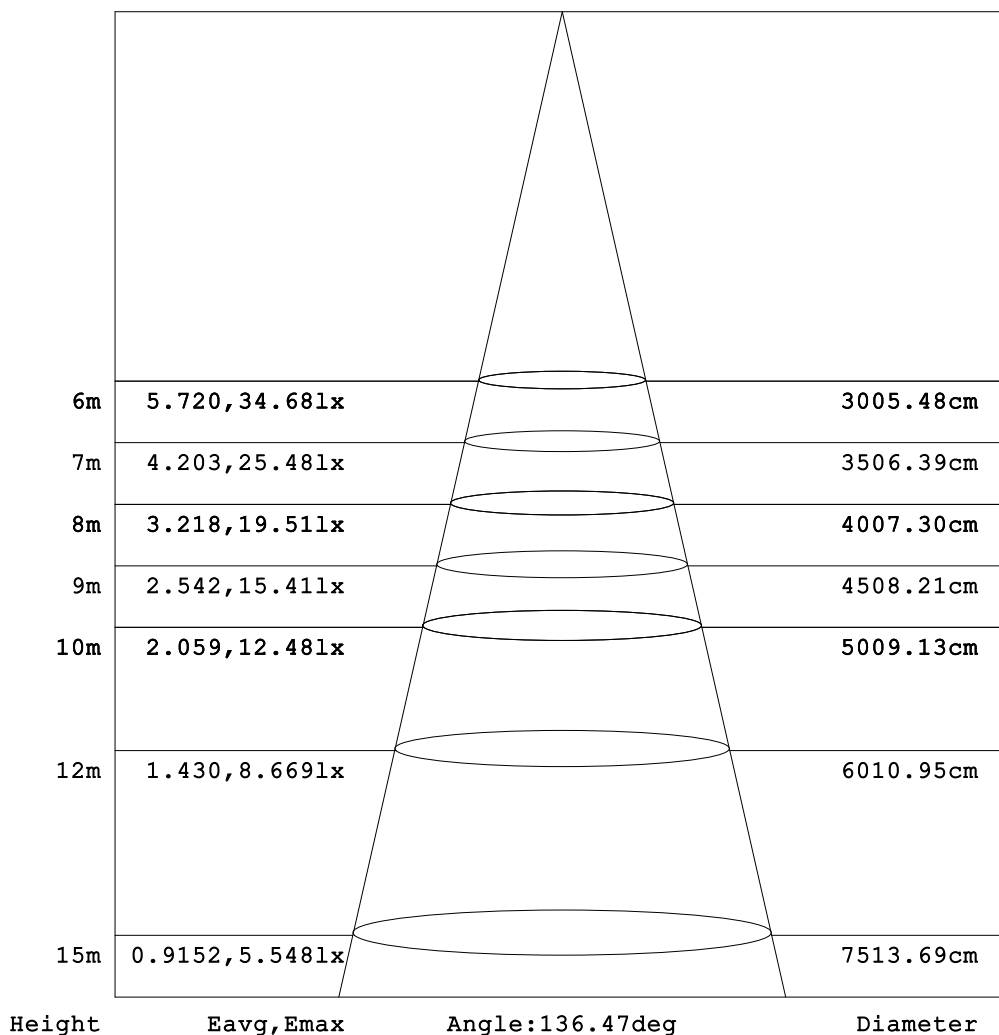
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:CL
Test Date:04 December 2018

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:480.08V I:0.0871A P:39.748W PF:0.9510 Freq:59.98Hz Lamp Flux:5166.67x1 lm		
NAME: LED Explosion-proof Flood Light	TYPE:Floodlight	WEIGHT:N/A
SPEC.:40W/Lumileds 5050/4000K	DIM.: 265*265*150mm	SERIAL No.:N/A
MFR.: NJZ Lighting Technology Co.,Ltd	SUR.:N/A	Shielding Angle:N/A

Flux out:4390 lm



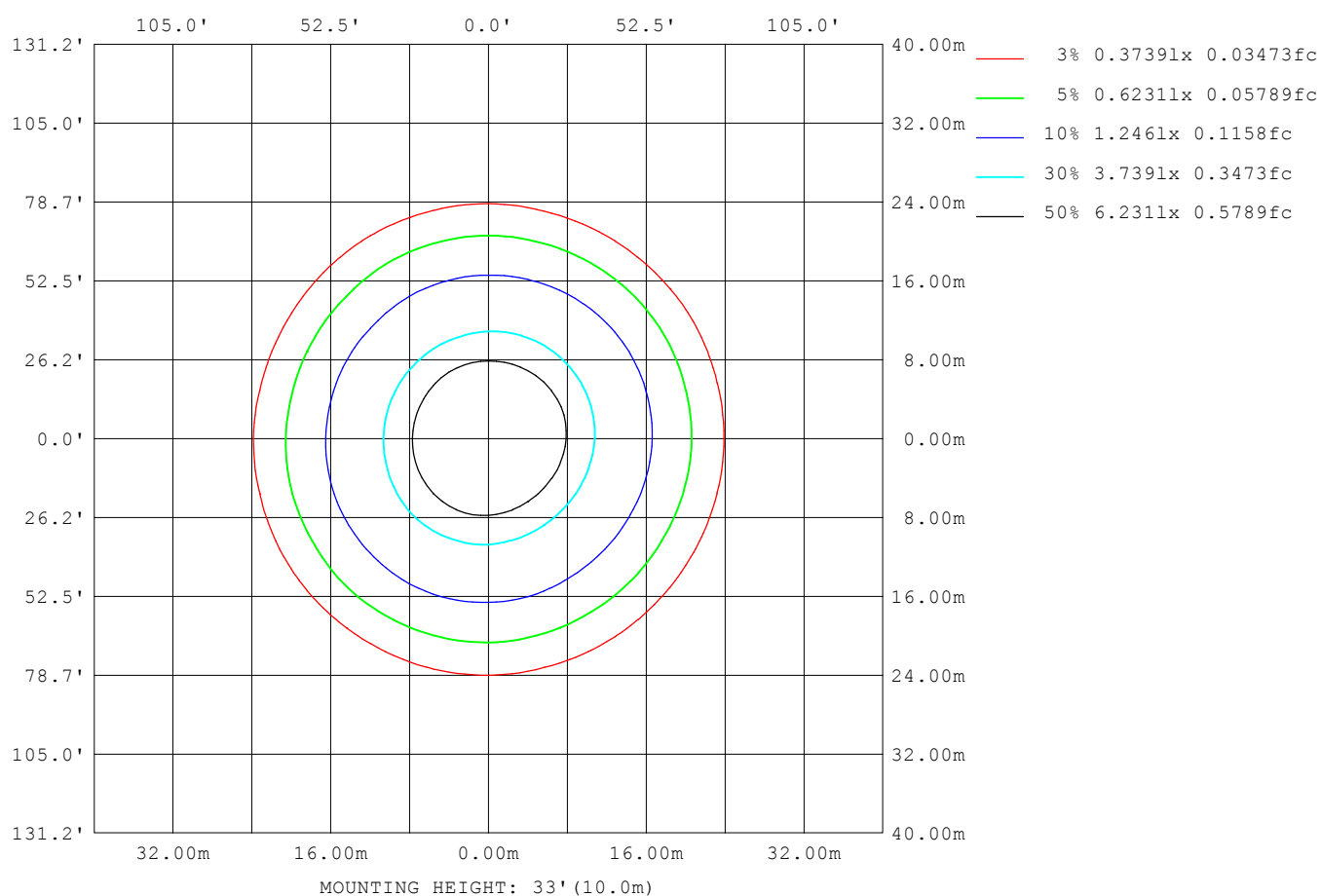
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:480.08V I:0.0871A P:39.748W PF:0.9510 Freq:59.98Hz Lamp Flux:5166.67x1 lm		
NAME: LED Explosion-proof Flood Light	TYPE:Floodlight	WEIGHT:N/A
SPEC.:40W/Lumileds 5050/4000K	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:480.08V I:0.0871A P:39.748W PF:0.9510 Freq:59.98Hz Lamp Flux:5166.67x1 lm		
NAME: LED Explosion-proof Flood Light	TYPE:Floodlight	WEIGHT:N/A
SPEC.:40W/Lumileds 5050/4000K	DIM.: 265*265*150mm	SERIAL No.:N/A
MFR.: NJZ Lighting Technology Co.,Ltd	SUR.:N/A	Shielding Angle:N/A

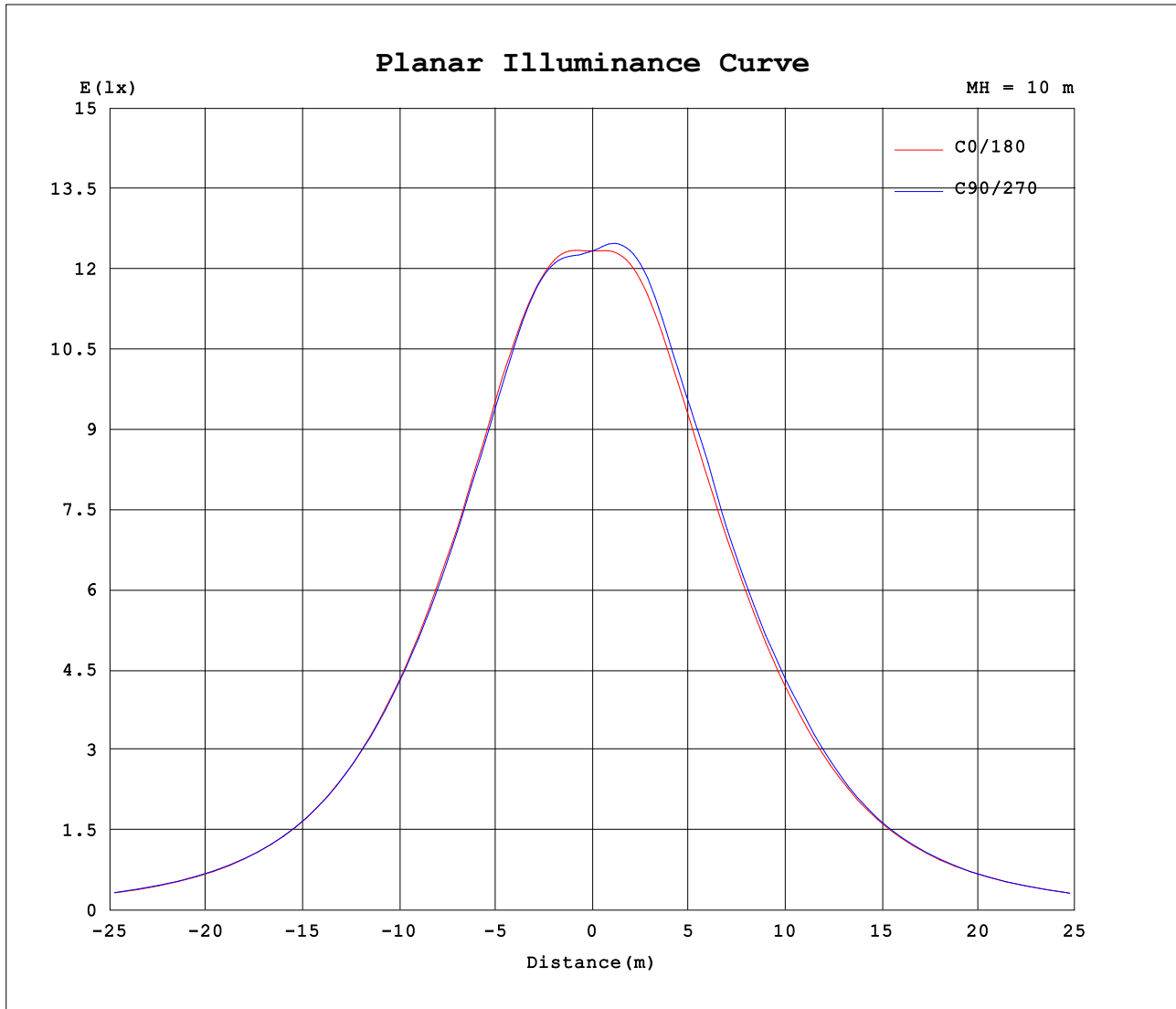
AvgL	cd/m2
L_0~180 (65) av	16939
L_0~180 (75) av	16288
L_0~180 (85) av	28118
L_90~270 (65) av	17140
L_90~270 (75) av	16233
L_90~270 (85) av	27694
L_45 (65) av	16958
L_45 (75) av	16351
L_45 (85) av	27824

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:480.08V I:0.0871A P:39.748W PF:0.9510 Freq:59.98Hz Lamp Flux:5166.67x1 lm		
NAME: LED Explosion-proof Flood Light	TYPE:Floodlight	WEIGHT:N/A
SPEC.:40W/Lumileds 5050/4000K	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:480.08V I:0.0871A P:39.748W PF:0.9510 Freq:59.98Hz Lamp Flux:5166.67x1 lm		
NAME: LED Explosion-proof Flood Light	TYPE:Floodlight	WEIGHT:N/A
SPEC.:40W/Lumileds 5050/4000K	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:

```