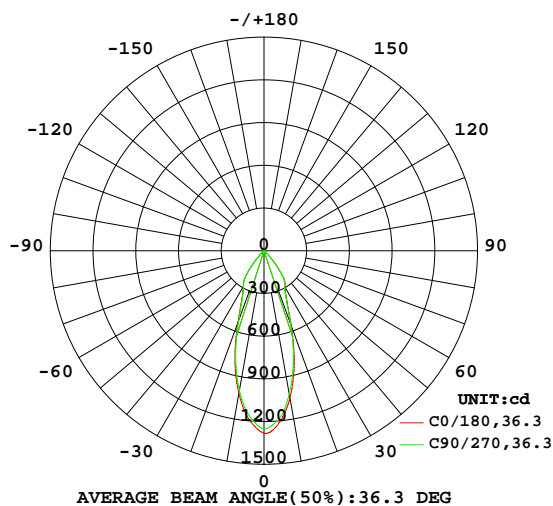


LUMINAIRE PHOTOMETRIC TEST REPORT

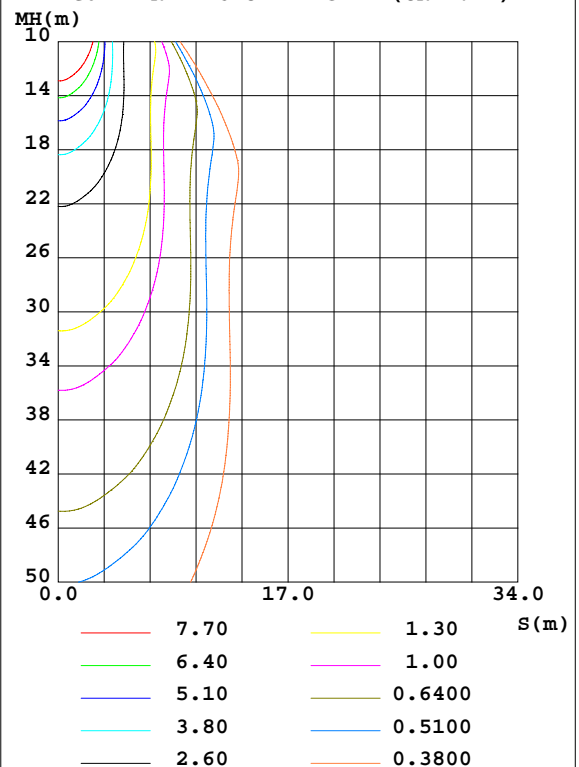
NAME: DL3027W927	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: VJC Lighting Limited	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 74.17 lm/W			
MODEL	DL3027W927	Imax(cd)	1282	S/MH(C0/180)	0.58
NOMINAL POWER(W)	9	LOR(%)	100.0	S/MH(C90/270)	0.58
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	703.44	η UP,DN(C0-180)	0.5,50.2
NOMINAL FLUX(lm)	703.438	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.3,49.0
LAMPS INSIDE	1	η up(%)	0.8	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	220.1	η down(%)	99.2	CIBSE SHR MAX	0.55

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:XXXX
 Test Date:01 March 2017

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:7.650m [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	1049	1035	1023	999.8	1017	1003	996.3	1011	0- 10	107.5	107.5	15.3,15.3
20	560.3	553.4	547.2	529.2	535.8	526.6	521.5	536.8	10- 20	214.9	322.4	45.8,45.8
30	296.7	293.8	289.3	285.4	292.2	288.7	287.5	287.6	20- 30	173.0	495.4	70.4,70.4
40	140.1	144.3	138.5	129.6	123.3	125.4	119.0	134.9	30- 40	141.1	636.5	90.5,90.5
50	17.85	18.67	18.15	18.53	18.33	18.26	17.05	17.72	40- 50	38.18	674.7	95.9,95.9
60	9.657	10.85	10.07	11.05	10.37	10.84	9.523	10.28	50- 60	12.47	687.2	97.7,97.7
70	5.068	5.339	5.584	5.699	5.925	5.807	5.393	5.088	60- 70	7.603	694.8	98.8,98.8
80	0.4208	0.4317	0.4388	0.4459	0.4018	0.4160	0.3838	0.3981	70- 80	2.715	697.5	99.2,99.2
90	0.0179	0.0179	0.0252	0.0215	0.0071	0	0.0036	0.0036	80- 90	0.1940	697.7	99.2,99.2
100	0.0214	0.0214	0.0214	0.0213	0.0179	0.0144	0.0214	0.0214	90-100	0.0161	697.7	99.2,99.2
110	0.0958	0.0923	0.0889	0.0888	0.0642	0.0609	0.0713	0.0677	100-110	0.0495	697.7	99.2,99.2
120	0.3308	0.3129	0.3344	0.3200	0.2852	0.2852	0.2924	0.2638	110-120	0.1705	697.9	99.2,99.2
130	0.8219	0.7896	0.8148	0.8039	0.6060	0.5881	0.5989	0.5701	120-130	0.4297	698.3	99.3,99.3
140	1.754	1.751	1.868	1.782	1.358	1.294	1.344	1.212	130-140	0.8170	699.2	99.4,99.4
150	2.894	3.033	3.139	2.987	2.216	2.287	2.262	2.127	140-150	1.299	700.5	99.6,99.6
160	4.140	3.952	4.322	3.995	3.317	3.063	3.228	2.960	150-160	1.426	701.9	99.8,99.8
170	5.294	4.632	4.911	4.813	4.224	3.832	3.803	3.637	160-170	1.126	703.0	99.9,99.9
180	4.804	4.765	4.715	4.686	4.836	4.779	4.722	4.686	170-180	0.4301	703.4	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 665.51 lm

%lum = 94.6%

%lamp = 94.6%

Conical surface Flux(120deg): 687.16 lm

%lum = 97.7%

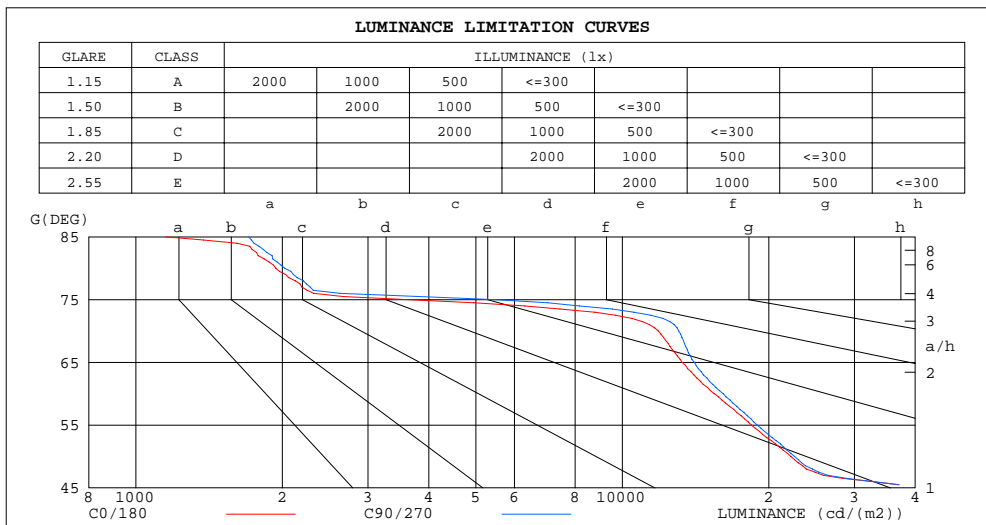
%lamp = 97.7%

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:XXXX
 Test Date:01 March 2017

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:7.650m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

NAME: DL3027W927	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: VJC Lighting Limited	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	1153	1704
80	1939	2021
75	3591	5426
70	11854	13061
65	13270	14064
60	15452	16117
55	18420	18927
50	22211	22588
45	43413	43081

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators: XXXX
Test Date: 01 March 2017

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 7.650m [K=1.0000]
Remarks:

WEC AND CCEC

NAME: DL3027W927	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: VJC Lighting Limited	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.177	.101	.032	.170	.097	.031	.157	.090	.029	.145	.084	.027	.134	.078	.025	
2.0	.169	.093	.028	.163	.090	.028	.152	.085	.026	.142	.080	.025	.133	.075	.024	
3.0	.160	.085	.026	.155	.083	.025	.146	.079	.024	.137	.075	.023	.129	.072	.022	
4.0	.152	.079	.023	.148	.077	.023	.140	.074	.022	.132	.071	.021	.125	.068	.021	
5.0	.145	.074	.021	.141	.072	.021	.134	.070	.021	.127	.067	.020	.121	.065	.019	
6.0	.138	.069	.020	.134	.068	.020	.128	.066	.019	.122	.063	.019	.117	.061	.018	
7.0	.131	.065	.018	.128	.064	.018	.123	.062	.018	.117	.060	.018	.113	.058	.017	
8.0	.125	.061	.017	.123	.060	.017	.118	.059	.017	.113	.057	.017	.109	.056	.016	
9.0	.120	.058	.016	.117	.057	.016	.113	.056	.016	.109	.055	.016	.105	.053	.015	
10.0	.115	.055	.015	.113	.054	.015	.109	.053	.015	.105	.052	.015	.101	.051	.015	

ρcc	80%			70%			50%			30%			10%			0	
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
ρfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)										
0.0	.197	.197	.197	.168	.168	.168	.115	.115	.115	.066	.066	.066	.021	.021	.021		
1.0	.177	.164	.151	.152	.140	.130	.104	.097	.090	.060	.056	.052	.019	.018	.017		
2.0	.162	.139	.119	.139	.120	.103	.095	.083	.072	.055	.048	.042	.018	.016	.014		
3.0	.150	.120	.096	.128	.103	.083	.088	.072	.058	.051	.042	.034	.016	.014	.011		
4.0	.139	.105	.079	.120	.091	.069	.082	.063	.048	.048	.037	.029	.015	.012	.009		
5.0	.131	.094	.066	.112	.081	.058	.077	.057	.041	.045	.033	.024	.014	.011	.008		
6.0	.123	.084	.057	.106	.073	.049	.073	.051	.035	.042	.030	.021	.014	.010	.007		
7.0	.116	.077	.049	.100	.066	.043	.069	.047	.030	.040	.027	.018	.013	.009	.006		
8.0	.110	.070	.043	.095	.061	.037	.066	.043	.027	.038	.025	.016	.012	.008	.005		
9.0	.105	.065	.038	.091	.057	.033	.063	.040	.024	.037	.023	.014	.012	.008	.005		
10.0	.101	.061	.034	.087	.053	.030	.060	.037	.021	.035	.022	.013	.011	.007	.004		

C Range: 0 - 360DEG

C Interval: 22.5DEG

Test Speed: MEDIUM

Temperature:25.3DEG

Operators:XXXX

Test Date:01 March 2017

γ Range: 0 - 180DEG

γ Interval: 0.5DEG

Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362

Humidity:65.0%

Test Distance:7.650m [K=1.0000]

Remarks:

UGR(Unified Glare Rating) Table

NAME: DL3027W927					TYPE:					WEIGHT:				
SPEC.:					DIM.:					SERIAL No.:				
MFR.: VJC Lighting Limited					SUR.:					Shielding Angle:				
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					24.0	25.0	24.3	25.1	25.3	24.0	24.9	24.3	25.1	25.3
3H					24.0	24.9	24.3	25.1	25.3	24.0	24.9	24.3	25.1	25.3
4H					24.0	24.8	24.2	25.0	25.2	24.0	24.8	24.3	25.0	25.2
6H					23.9	24.6	24.2	24.9	25.1	23.9	24.6	24.2	24.9	25.2
8H					23.8	24.6	24.1	24.8	25.1	23.8	24.6	24.2	24.8	25.1
12H					23.8	24.5	24.1	24.8	25.0	23.8	24.5	24.1	24.8	25.1
4H 2H					23.9	24.7	24.2	24.9	25.2	23.9	24.7	24.1	24.9	25.1
3H					23.9	24.6	24.2	24.9	25.2	23.9	24.6	24.2	24.9	25.2
4H					23.9	24.5	24.2	24.8	25.1	23.9	24.5	24.2	24.8	25.1
6H					23.8	24.3	24.1	24.7	25.0	23.8	24.3	24.2	24.7	25.0
8H					23.7	24.2	24.1	24.6	25.0	23.7	24.2	24.1	24.6	25.0
12H					23.7	24.1	24.1	24.5	24.9	23.7	24.1	24.1	24.5	24.9
8H 4H					23.7	24.3	24.1	24.6	25.0	23.8	24.3	24.2	24.6	25.0
6H					23.6	24.1	24.1	24.5	24.9	23.7	24.1	24.1	24.5	24.9
8H					23.6	24.0	24.1	24.4	24.8	23.6	24.0	24.1	24.4	24.9
12H					23.5	23.9	24.0	24.3	24.8	23.6	23.9	24.0	24.3	24.8
12H 4H					23.7	24.2	24.1	24.5	25.0	23.7	24.2	24.1	24.6	25.0
6H					23.6	24.0	24.0	24.4	24.8	23.6	24.0	24.1	24.4	24.9
8H					23.5	23.9	24.0	24.3	24.8	23.6	23.9	24.0	24.3	24.8
Variations with the observer position at spacings:														
S = 1.0H					+ 2.9 / - 6.7					+ 2.8 / - 6.4				
1.5H					+ 5.3 / - 5.8					+ 5.2 / - 5.5				
2.0H					+ 3.4 / - 1.8					+ 3.3 / - 1.7				

CIE Pub.117, 703.4 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = -1.2$)

C Range: 0 - 360DEG

C Interval: 22.5DEG

Test Speed: MEDIUM

Temperature: 25.3DEG

Operators: XXXX

Test Date: 01 March 2017

 γ Range: 0 - 180DEG

 γ Interval: 0.5DEG

Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362

Humidity: 65.0%

Test Distance: 7.650m [K=1.0000]

Remarks:

UTILIZATION FACTORS TABLE

NAME: DL3027W927	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: VJC Lighting Limited	SUR.:	Shielding Angle:

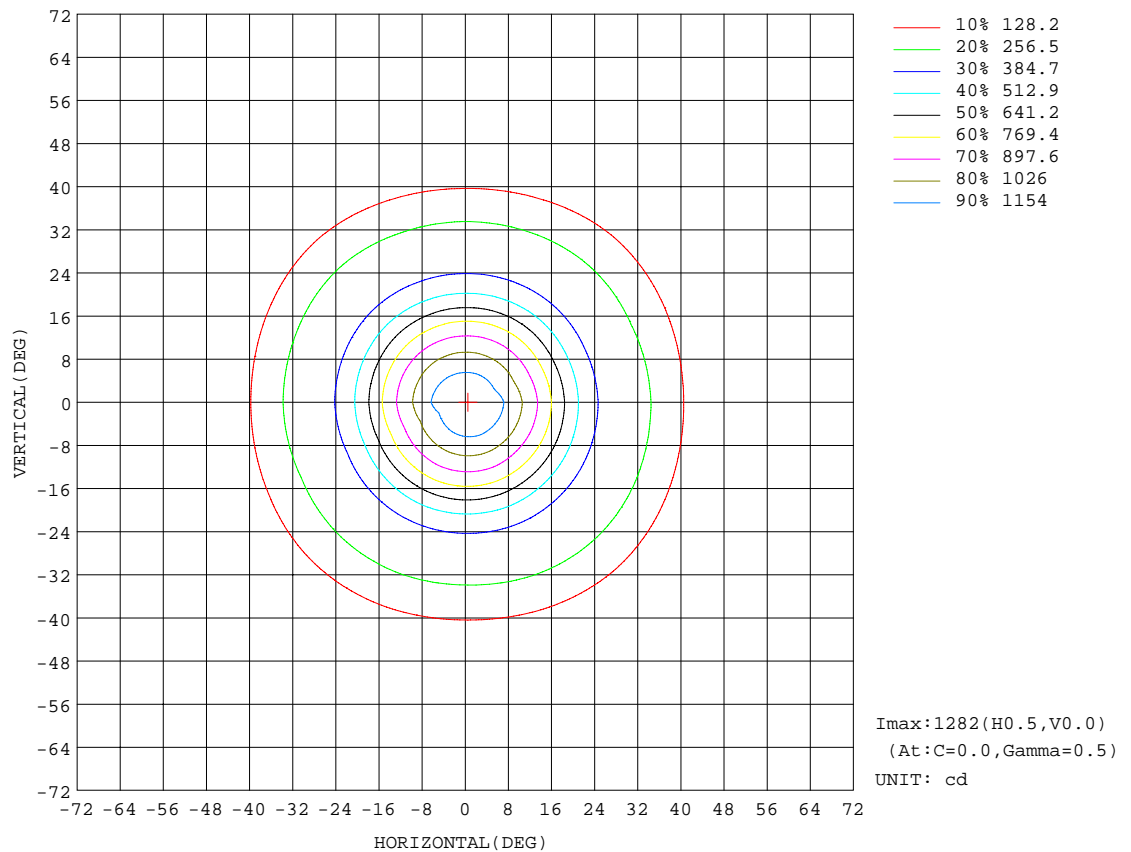
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	86	79	75	85	79	75	84	78	75	71
0.80	93	87	83	93	87	83	91	86	83	79
1.00	98	92	88	97	92	88	95	91	87	83
1.25	102	97	93	101	96	93	99	95	92	87
1.50	105	100	96	104	99	96	101	98	95	90
2.00	108	103	100	106	102	99	103	100	98	92
2.50	110	106	102	108	104	102	105	102	100	93
3.00	111	108	105	109	106	104	106	103	101	95
4.00	113	110	108	111	109	107	107	105	104	96
5.00	115	112	110	112	110	109	108	107	105	98
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004										
Suspended										
SHRNOM = 1.25										

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:XXXX
Test Date:01 March 2017

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.650m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

NAME: DL3027W927	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: VJC Lighting Limited	SUR.:	Shielding Angle:



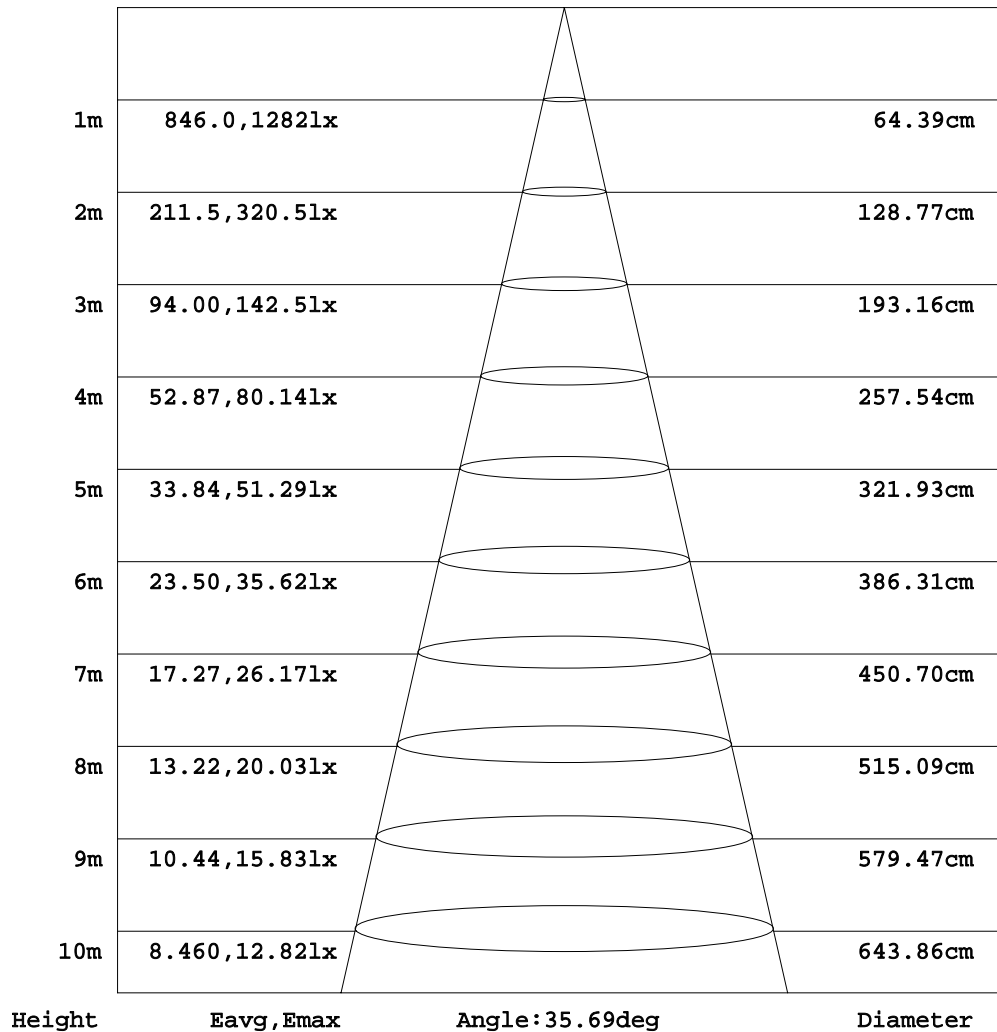
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:XXXX
Test Date:01 March 2017

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.650m [K=1.0000]
Remarks:

AAI Figure

NAME: DL3027W927	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: VJC Lighting Limited	SUR.:	Shielding Angle:

Flux out:280.6 lm

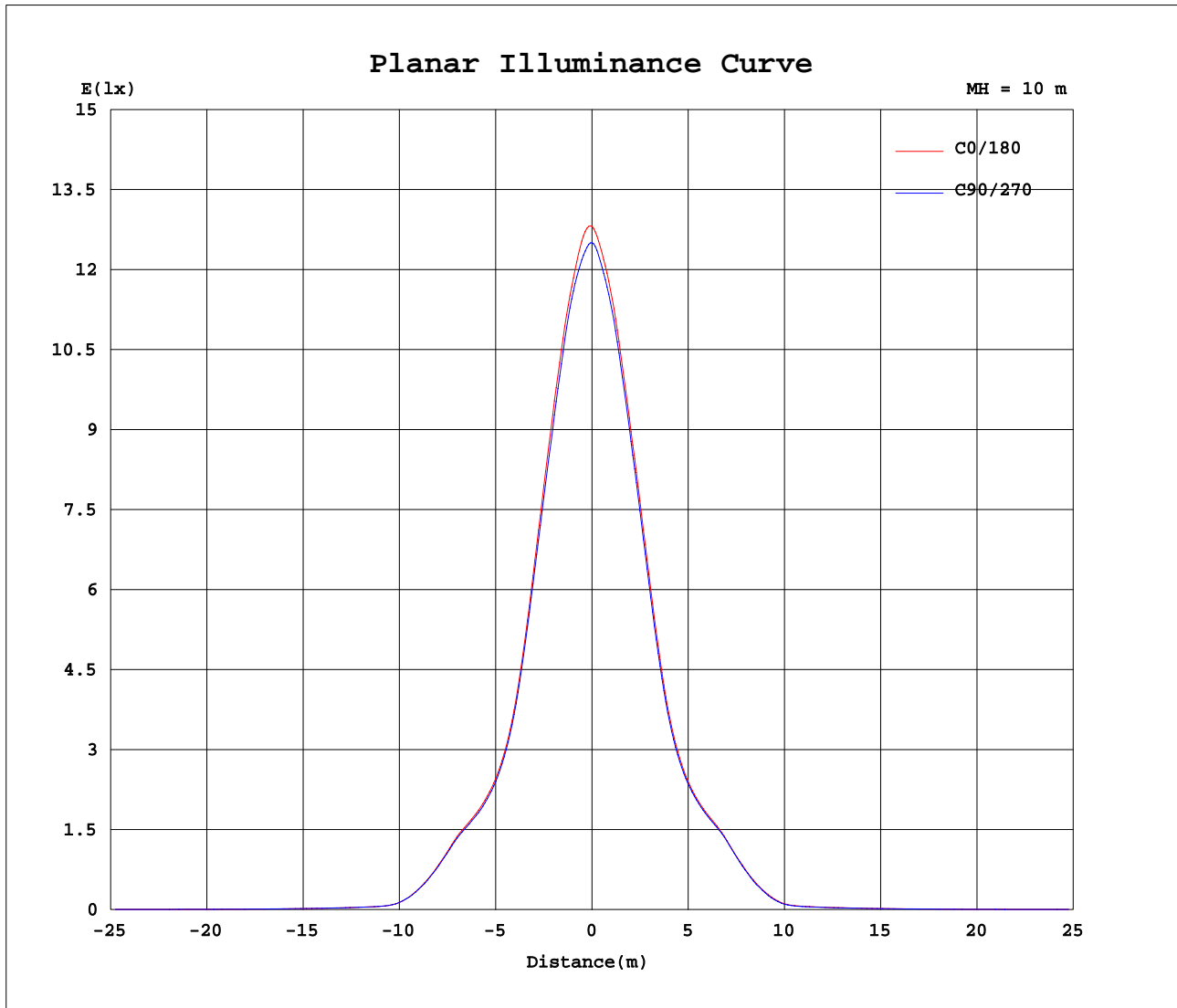


Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: MEDIUM
 Temperature: 25.3DEG
 Operators: XXXX
 Test Date: 01 March 2017

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity: 65.0%
 Test Distance: 7.650m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: MEDIUM
 Temperature: 25.3DEG
 Operators: XXXX
 Test Date: 01 March 2017

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity: 65.0%
 Test Distance: 7.650m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: DL3027W927	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: VJC Lighting Limited	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5			
0	1281	1272	1264	1257	1251	1246	1243	1241	1281	1272	1264	1257	1251	1246	1243	1241			
5	1213	1207	1201	1195	1187	1178	1168	1160	1192	1181	1174	1168	1167	1170	1174	1175			
10	1049	1042	1035	1031	1023	1012	1000	989	1017	1008	1003	996	996	1001	1011	1018			
15	821	815	807	805	800	791	779	768	789	781	775	768	770	778	789	797			
20	560	559	553	553	547	541	529	521	536	530	527	521	521	528	537	543			
25	376	375	372	372	368	364	359	354	365	363	361	357	358	360	363	364			
30	297	296	294	293	289	288	285	283	292	290	289	286	287	288	288	288			
35	249	250	250	249	244	242	237	233	236	234	237	234	235	237	242	243			
40	140	142	144	142	138	136	130	123	123	123	125	121	119	124	135	136			
45	38.4	41.3	42.4	39.9	38.1	38.7	35.2	31.2	31.6	32.9	33.1	29.7	29.4	31.8	36.9	37.2			
50	17.8	18.6	18.7	18.5	18.1	18.6	18.5	18.2	18.3	18.6	18.3	17.6	17.1	17.4	17.7	17.5			
55	13.2	14.1	14.7	14.0	13.6	14.3	14.8	13.9	13.8	14.3	14.5	13.3	12.8	13.3	14.0	13.2			
60	9.66	10.3	10.9	10.4	10.1	10.6	11.0	10.4	10.4	10.7	10.8	9.97	9.52	9.86	10.3	9.72			
65	7.01	7.49	7.72	7.63	7.43	7.86	7.99	7.79	7.77	8.03	7.94	7.47	7.19	7.35	7.34	7.09			
70	5.07	5.32	5.34	5.65	5.58	5.84	5.70	5.83	5.92	6.03	5.81	5.66	5.39	5.40	5.09	5.10			
75	1.16	2.46	3.04	2.52	1.76	3.02	3.31	2.46	1.58	2.89	3.28	1.93	0.93	2.18	2.75	1.91			
80	0.42	0.42	0.43	0.42	0.44	0.44	0.45	0.43	0.40	0.45	0.42	0.43	0.38	0.43	0.40	0.43			
85	0.13	0.16	0.17	0.16	0.19	0.16	0.18	0.16	0.13	0.19	0.16	0.17	0.14	0.16	0.14	0.16			
90	0.02	0.01	0.02	0.01	0.03	0.01	0.02	0.01	0.01	0.01	0.00	0.01	0.00	0.01	0.00	0.01			
95	0.01	0.03	0.01	0.03	0.01	0.02	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01			
100	0.02	0.05	0.02	0.04	0.02	0.04	0.02	0.04	0.02	0.01	0.01	0.01	0.02	0.01	0.02	0.01			
105	0.05	0.07	0.06	0.07	0.05	0.06	0.06	0.07	0.04	0.02	0.04	0.03	0.03	0.02	0.04	0.02			
110	0.10	0.10	0.09	0.11	0.09	0.11	0.09	0.11	0.06	0.05	0.06	0.06	0.07	0.05	0.07	0.05			
115	0.18	0.19	0.17	0.20	0.18	0.20	0.18	0.21	0.15	0.13	0.15	0.14	0.15	0.13	0.14	0.11			
120	0.33	0.34	0.31	0.35	0.33	0.35	0.32	0.36	0.29	0.27	0.29	0.27	0.29	0.26	0.26	0.23			
125	0.55	0.54	0.51	0.54	0.53	0.54	0.52	0.57	0.42	0.41	0.42	0.41	0.43	0.40	0.40	0.37			
130	0.82	0.81	0.79	0.82	0.81	0.83	0.80	0.85	0.61	0.58	0.59	0.58	0.60	0.57	0.57	0.53			
135	1.21	1.19	1.19	1.26	1.29	1.26	1.21	1.24	0.89	0.85	0.86	0.88	0.89	0.84	0.82	0.78			
140	1.75	1.72	1.75	1.79	1.87	1.81	1.78	1.79	1.36	1.29	1.29	1.33	1.34	1.26	1.21	1.17			
145	2.38	2.32	2.42	2.45	2.51	2.48	2.47	2.38	1.84	1.79	1.79	1.84	1.89	1.76	1.69	1.66			
150	2.89	2.87	3.03	3.12	3.14	3.14	2.99	2.94	2.22	2.21	2.29	2.29	2.26	2.23	2.13	2.04			
155	3.52	3.42	3.55	3.81	3.95	3.72	3.55	3.45	2.71	2.60	2.71	2.70	2.72	2.63	2.56	2.42			
160	4.14	3.94	3.95	4.04	4.32	4.09	3.99	3.99	3.32	3.08	3.06	3.17	3.23	3.01	2.96	2.94			
165	4.76	4.39	4.25	4.46	4.72	4.52	4.32	4.62	3.94	3.53	3.43	3.63	3.74	3.38	3.28	3.42			
170	5.29	5.05	4.63	4.84	4.91	4.76	4.81	5.34	4.22	4.04	3.83	3.81	3.80	3.60	3.64	3.83			
175	5.32	5.02	4.92	4.78	4.83	4.79	4.96	4.95	4.29	4.31	4.22	4.14	3.94	3.97	3.95	4.07			
180	4.80	4.69	4.76	4.63	4.71	4.58	4.69	4.49	4.84	4.66	4.78	4.61	4.72	4.56	4.69	4.49			

C Range: 0 - 360DEG

C Interval: 22.5DEG

Test Speed: MEDIUM

Temperature:25.3DEG

Operators:XXXX

Test Date:01 March 2017

γ Range: 0 - 180DEG

γ Interval: 0.5DEG

Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362

Humidity:65.0%

Test Distance:7.650m [K=1.0000]

Remarks: