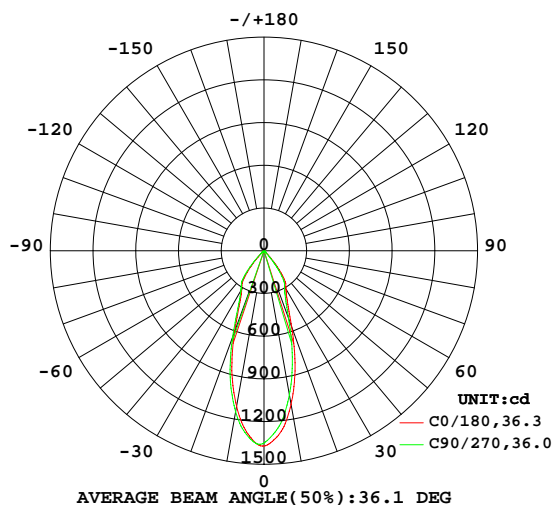


LUMINAIRE PHOTOMETRIC TEST REPORT

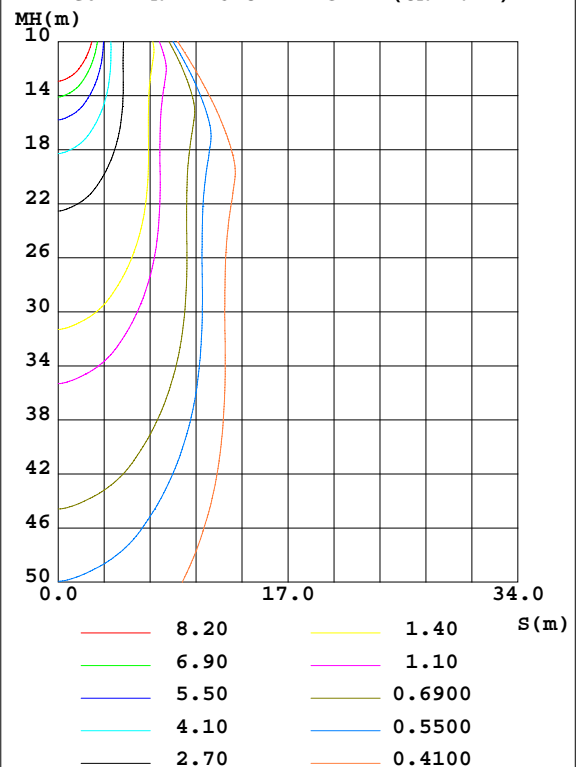
NAME: DL3027W930	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: VJC Lighting Limited	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 77.87 lm/W			
MODEL	DL3027W930	Imax(cd)	1372	S/MH(C0/180)	0.60
NOMINAL POWER(W)	9	LOR(%)	100.0	S/MH(C90/270)	0.63
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	751.75	η UP,DN(C0-180)	0.5,46.2
NOMINAL FLUX(lm)	751.745	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.3,53.0
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	1096	1040	1028	1042	1109	1146	1150	1126	0- 10	115.7	115.7	15.4,15.4
20	569.3	516.2	508.4	533.9	603.9	645.4	644.3	616.1	10- 20	230.7	346.4	46.1,46.1
30	309.3	294.9	289.7	292.9	314.5	325.1	325.8	317.9	20- 30	185.4	531.8	70.7,70.7
40	132.9	109.8	100.2	112.7	142.4	174.9	173.2	164.6	30- 40	148.8	680.7	90.5,90.5
50	17.86	18.00	17.37	19.03	19.78	20.70	19.64	19.17	40- 50	40.76	721.4	96,96
60	9.557	10.11	9.557	11.27	11.31	12.43	10.89	11.18	50- 60	13.03	734.4	97.7,97.7
70	5.050	4.986	5.269	5.870	6.601	6.704	6.182	5.582	60- 70	7.985	742.4	98.8,98.8
80	0.4173	0.3602	0.3425	0.4101	0.4481	0.5511	0.5120	0.4765	70- 80	2.900	745.3	99.1,99.1
90	0.0145	0.0107	0.0142	0.0107	0.0107	0.0245	0.0246	0.0071	80- 90	0.2080	745.5	99.2,99.2
100	0.0320	0.0532	0.0355	0.0286	0.0178	0.0214	0.0214	0.0214	90-100	0.0202	745.6	99.2,99.2
110	0.1103	0.1139	0.1243	0.1033	0.0712	0.0605	0.0571	0.0642	100-110	0.0545	745.6	99.2,99.2
120	0.3628	0.3983	0.4127	0.3769	0.2780	0.2461	0.2460	0.2566	110-120	0.1808	745.8	99.2,99.2
130	0.8929	0.9642	1.010	0.9249	0.6060	0.5454	0.5631	0.5595	120-130	0.4644	746.3	99.3,99.3
140	1.939	2.124	2.220	2.049	1.358	1.201	1.234	1.219	130-140	0.8803	747.1	99.4,99.4
150	3.264	3.499	3.659	3.350	2.319	2.259	2.213	2.227	140-150	1.410	748.5	99.6,99.6
160	4.450	4.362	4.889	4.344	3.395	3.102	3.299	3.081	150-160	1.543	750.1	99.8,99.8
170	5.775	4.981	5.249	5.169	4.380	4.007	4.038	3.900	160-170	1.198	751.3	99.9,99.9
180	5.039	5.000	5.007	5.039	5.071	5.017	5.007	5.032	170-180	0.4578	751.7	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 711.35 lm

%lum = 94.6%

%lamp = 94.6%

Conical surface Flux(120deg): 734.44 lm

%lum = 97.7%

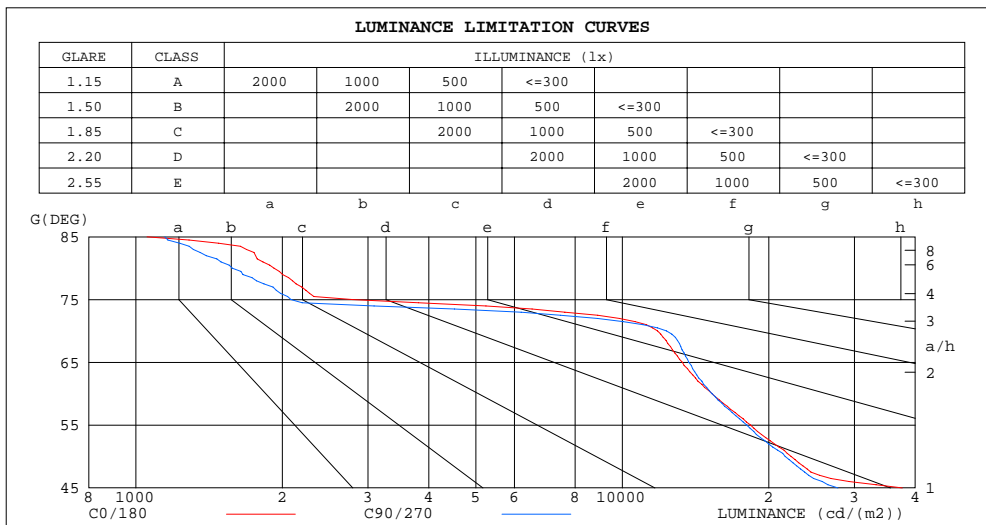
%lamp = 97.7%

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: DL3027W930	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: VJC Lighting Limited	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	1055	1147
80	1923	1578
75	2790	2084
70	11813	12324
65	13288	13701
60	15291	15291
55	18354	18016
50	22225	21617
45	37628	27758

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: DL3027W930	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	.176	.100	.032	.169	.097	.031	.156	.090	.029	.144	.083	.027	.133	.077	.025		
2.0	.169	.092	.028	.163	.090	.028	.152	.084	.026	.142	.079	.025	.132	.075	.024		
3.0	.160	.085	.026	.155	.083	.025	.146	.079	.024	.137	.075	.023	.129	.071	.022		
4.0	.152	.079	.023	.148	.077	.023	.139	.074	.022	.132	.071	.021	.125	.068	.021		
5.0	.144	.074	.021	.141	.072	.021	.133	.069	.020	.127	.067	.020	.121	.064	.019		
6.0	.137	.069	.020	.134	.068	.019	.128	.065	.019	.122	.063	.019	.116	.061	.018		
7.0	.131	.065	.018	.128	.064	.018	.122	.062	.018	.117	.060	.017	.112	.058	.017		
8.0	.125	.061	.017	.122	.060	.017	.117	.059	.017	.113	.057	.016	.108	.056	.016		
9.0	.119	.058	.016	.117	.057	.016	.113	.056	.016	.108	.054	.016	.104	.053	.015		
10.0	.114	.055	.015	.112	.054	.015	.108	.053	.015	.104	.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	.104	.083	.088	.072	.059	.051	.042	.035	.016	.014	.011		
4.0	.139	.105	.079	.120	.091	.069	.082	.063	.048	.048	.037	.029	.015	.012	.009		
5.0	.130	.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: DL3027W930					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					23.2	24.1	23.4	24.3	24.4	22.6	23.6	22.9	23.7	23.9
3H					23.1	24.0	23.4	24.2	24.4	22.7	23.5	22.9	23.7	23.9
4H					23.1	23.9	23.4	24.1	24.4	22.6	23.4	22.9	23.6	23.9
6H					23.0	23.7	23.3	24.0	24.3	22.5	23.2	22.8	23.5	23.8
8H					23.0	23.7	23.3	23.9	24.2	22.4	23.2	22.8	23.4	23.7
12H					22.9	23.6	23.2	23.9	24.2	22.4	23.1	22.7	23.4	23.7
4H 2H					23.0	23.8	23.3	24.0	24.3	22.5	23.3	22.8	23.5	23.8
3H					23.0	23.7	23.4	24.0	24.3	22.6	23.2	22.9	23.5	23.8
4H					23.0	23.6	23.3	23.9	24.2	22.5	23.1	22.8	23.4	23.8
6H					22.9	23.4	23.3	23.8	24.1	22.4	22.9	22.8	23.3	23.7
8H					22.8	23.3	23.2	23.7	24.1	22.3	22.9	22.7	23.2	23.6
12H					22.8	23.2	23.2	23.6	24.0	22.3	22.8	22.7	23.1	23.6
8H 4H					22.8	23.4	23.2	23.7	24.1	22.4	22.9	22.8	23.2	23.6
6H					22.7	23.2	23.2	23.6	24.0	22.3	22.7	22.7	23.1	23.5
8H					22.7	23.1	23.1	23.5	23.9	22.2	22.6	22.7	23.0	23.5
12H					22.6	22.9	23.1	23.4	23.9	22.2	22.5	22.6	22.9	23.4
12H 4H					22.8	23.3	23.2	23.6	24.0	22.3	22.8	22.7	23.2	23.6
6H					22.7	23.1	23.1	23.5	23.9	22.2	22.6	22.7	23.0	23.5
8H					22.6	22.9	23.1	23.4	23.9	22.2	22.5	22.6	22.9	23.4
Variations with the observer position at spacings:														
S = 1.0H					+ 3.5 / - 6.5					+ 3.1 / - 5.6				
1.5H					+ 5.9 / - 5.3					+ 5.5 / - 4.6				
2.0H					+ 3.1 / - 1.5					+ 1.5 / - 1.2				

CIE Pub.117, 751.7 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = -1.0$)

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: DL3027W930	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: VJC Lighting Limited	SUR.:	Shielding Angle:

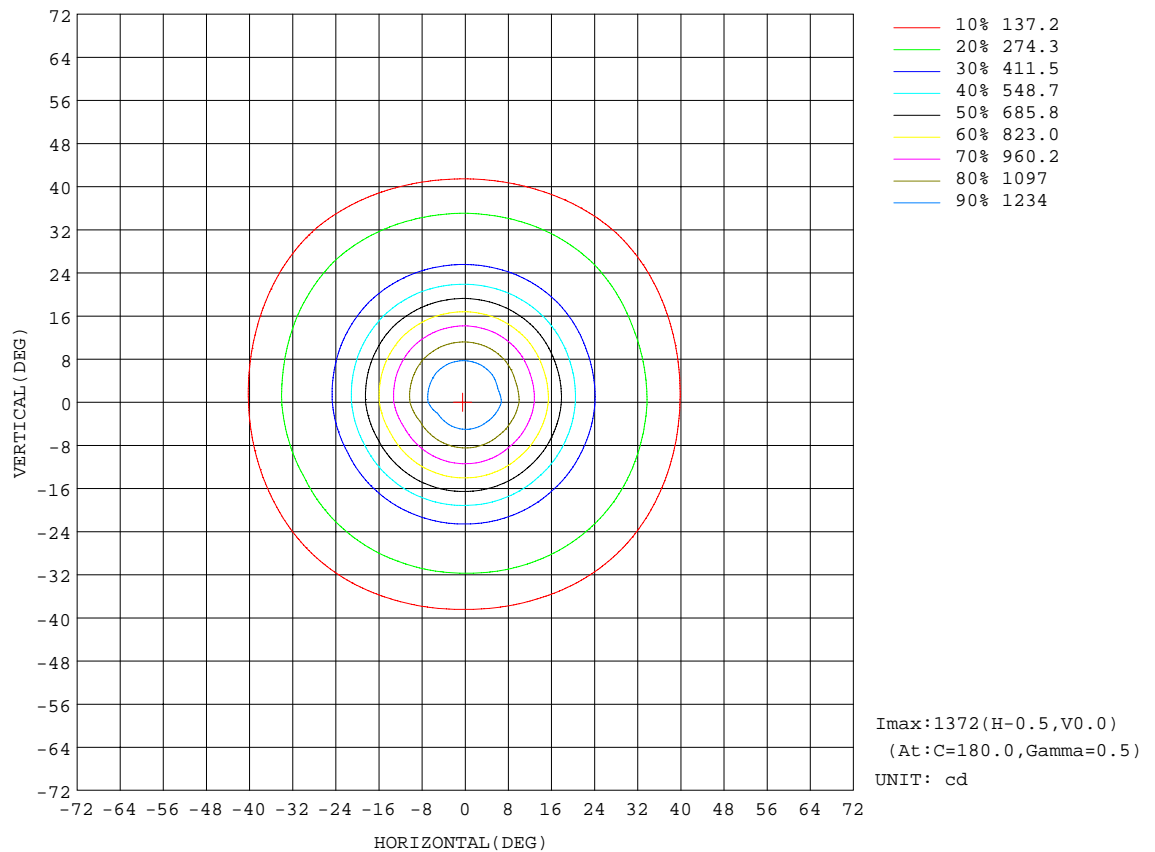
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	86	79	75	85	79	75	84	78	75	71
0.80	93	87	83	93	87	83	91	86	83	79
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: DL3027W930	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: VJC Lighting Limited	SUR.:	Shielding Angle:

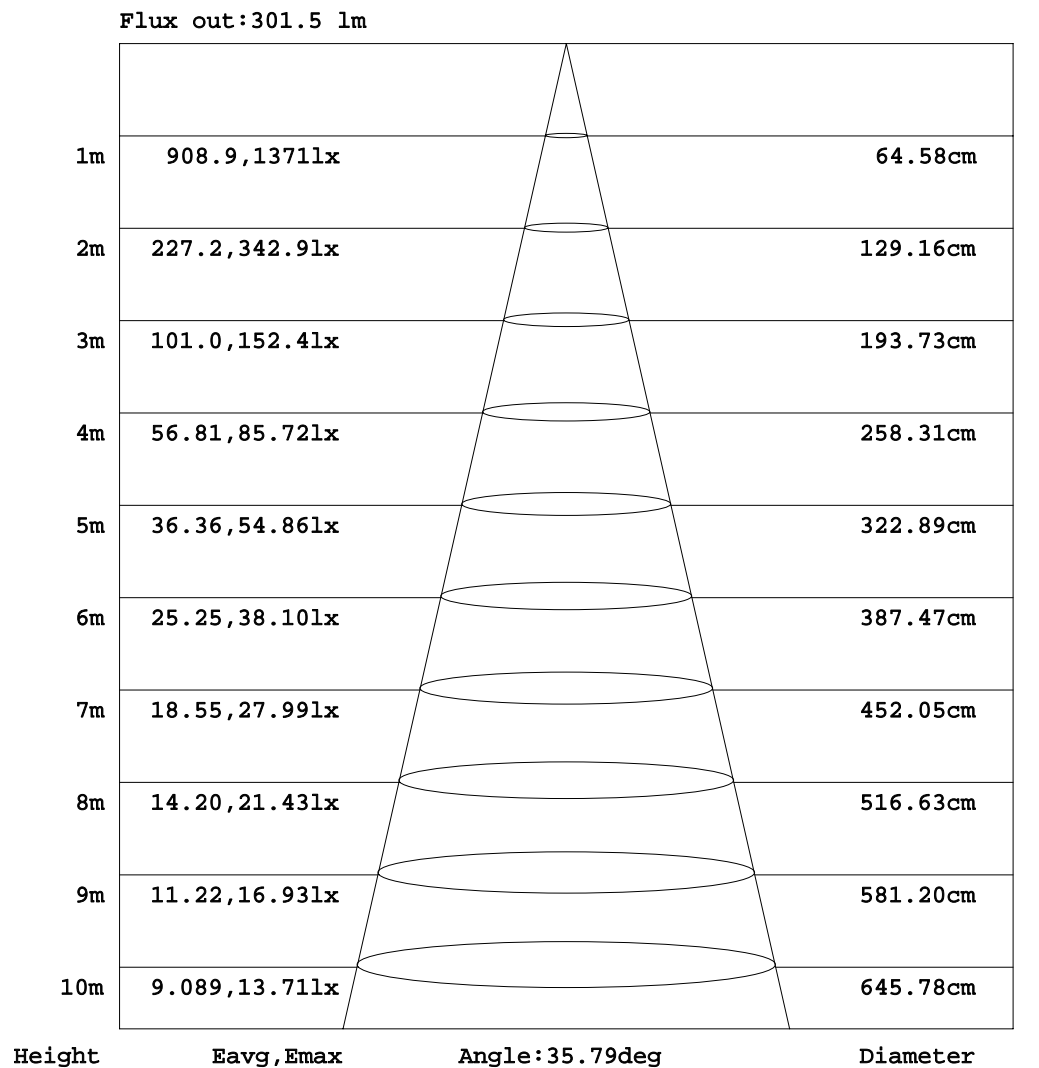


C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:XXXX
 Test Date:01 March 2017

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: DL3027W930	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: VJC Lighting Limited	SUR.:	Shielding Angle:

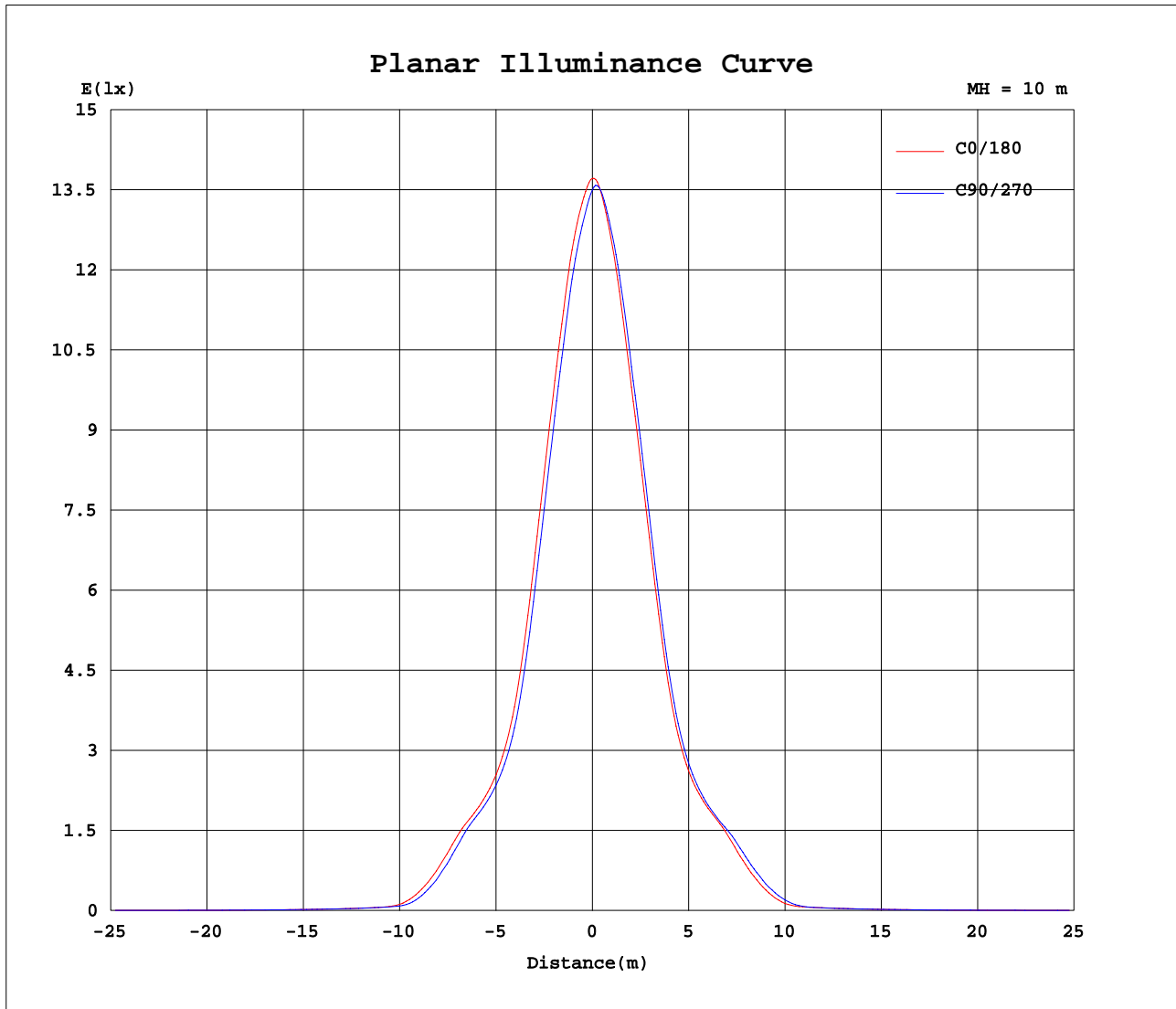


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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: DL3027W930	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	1371	1363	1357	1353	1350	1347	1344	1342	1371	1363	1357	1353	1350	1347	1344	1342			
5	1287	1264	1246	1239	1235	1236	1240	1249	1292	1301	1307	1310	1307	1301	1289	1276			
10	1096	1064	1040	1031	1028	1031	1042	1058	1109	1128	1146	1150	1150	1140	1126	1101			
15	845	808	781	773	771	779	796	820	873	896	915	918	918	908	891	861			
20	569	540	516	509	508	517	534	559	604	628	645	648	644	633	616	589			
25	388	372	360	356	354	356	363	375	402	417	427	429	427	421	411	395			
30	309	301	295	292	290	290	293	298	315	321	325	326	326	323	318	310			
35	255	241	231	224	221	226	232	242	259	269	276	275	275	273	269	261			
40	133	119	110	102	100	105	113	125	142	159	175	175	173	170	165	148			
45	33.3	29.0	26.7	24.8	24.5	26.5	29.0	31.1	37.9	49.8	59.5	58.8	57.0	54.0	52.0	41.1			
50	17.9	18.1	18.0	17.7	17.4	18.3	19.0	19.4	19.8	20.4	20.7	20.4	19.6	19.4	19.2	18.4			
55	13.2	13.4	13.9	13.1	12.9	13.8	15.1	14.9	15.0	15.8	16.3	15.5	14.6	14.9	15.1	13.8			
60	9.56	9.85	10.1	9.76	9.56	10.4	11.3	11.2	11.3	11.8	12.4	11.5	10.9	11.0	11.2	10.1			
65	7.02	7.17	7.18	7.24	7.24	7.86	8.21	8.42	8.58	8.95	9.19	8.68	8.11	8.14	8.05	7.41			
70	5.05	5.11	4.99	5.40	5.27	5.87	5.87	6.27	6.60	6.78	6.70	6.55	6.18	6.01	5.58	5.34			
75	0.90	1.39	1.88	0.89	0.67	1.51	2.84	2.57	2.38	4.24	4.54	4.13	2.94	3.67	3.42	2.26			
80	0.42	0.38	0.36	0.35	0.34	0.37	0.41	0.42	0.45	0.55	0.55	0.58	0.51	0.55	0.48	0.47			
85	0.11	0.12	0.11	0.11	0.12	0.12	0.15	0.15	0.13	0.25	0.22	0.27	0.22	0.25	0.18	0.19			
90	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.04	0.02	0.06	0.02	0.05	0.01	0.01			
95	0.02	0.03	0.01	0.03	0.02	0.02	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01			
100	0.03	0.05	0.05	0.05	0.04	0.05	0.03	0.04	0.02	0.01	0.02	0.01	0.02	0.01	0.02	0.01			
105	0.06	0.07	0.06	0.08	0.06	0.07	0.06	0.06	0.04	0.02	0.04	0.02	0.03	0.02	0.04	0.02			
110	0.11	0.12	0.11	0.14	0.12	0.13	0.10	0.11	0.07	0.05	0.06	0.05	0.06	0.05	0.06	0.05			
115	0.22	0.23	0.22	0.26	0.24	0.24	0.21	0.21	0.14	0.11	0.12	0.11	0.12	0.11	0.12	0.12			
120	0.36	0.40	0.40	0.43	0.41	0.42	0.38	0.38	0.28	0.24	0.25	0.23	0.25	0.22	0.26	0.25			
125	0.58	0.63	0.63	0.68	0.66	0.66	0.60	0.61	0.42	0.40	0.40	0.38	0.40	0.38	0.40	0.40			
130	0.89	0.95	0.96	1.03	1.01	0.98	0.92	0.91	0.61	0.56	0.55	0.54	0.56	0.53	0.56	0.57			
135	1.32	1.38	1.46	1.52	1.53	1.47	1.39	1.34	0.88	0.80	0.79	0.78	0.80	0.79	0.81	0.83			
140	1.94	1.98	2.12	2.21	2.22	2.16	2.05	1.92	1.36	1.24	1.20	1.23	1.23	1.20	1.22	1.26			
145	2.62	2.66	2.88	2.92	2.98	2.87	2.77	2.61	1.89	1.78	1.75	1.76	1.80	1.72	1.76	1.77			
150	3.26	3.33	3.50	3.62	3.66	3.57	3.35	3.22	2.32	2.24	2.26	2.24	2.21	2.21	2.23	2.21			
155	3.98	3.84	4.00	4.39	4.53	4.26	3.92	3.79	2.86	2.65	2.72	2.70	2.70	2.68	2.68	2.62			
160	4.45	4.27	4.36	4.57	4.89	4.53	4.34	4.26	3.40	3.13	3.10	3.19	3.30	3.12	3.08	3.14			
165	5.20	4.77	4.60	4.86	5.13	4.80	4.66	4.92	4.05	3.67	3.52	3.65	3.86	3.54	3.47	3.70			
170	5.78	5.43	4.98	5.20	5.25	5.09	5.17	5.62	4.38	4.21	4.01	4.01	4.04	3.87	3.90	4.16			
175	5.58	5.27	5.15	5.04	5.13	5.13	5.33	5.38	4.50	4.54	4.43	4.39	4.21	4.24	4.25	4.39			
180	5.04	4.92	5.00	4.87	5.01	4.88	5.04	4.87	5.07	4.89	5.02	4.85	5.01	4.87	5.03	4.86			

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: