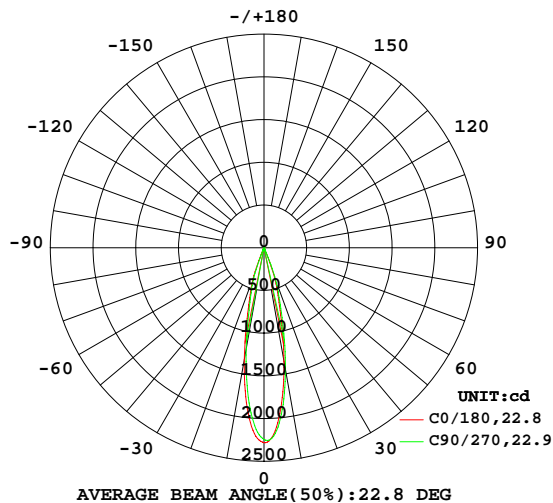


LUMINAIRE PHOTOMETRIC TEST REPORT

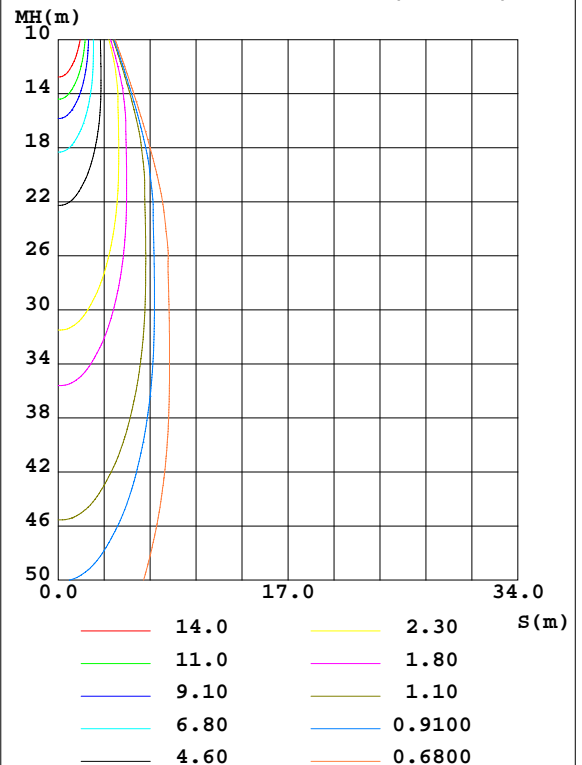
NAME: DL3026B930	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: VJC Lighting Limited	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 43.38 lm/W			
MODEL	DL3026B930	Imax(cd)	2281	S/MH(C0/180)	0.39
NOMINAL POWER(W)	9	LOR(%)	100.0	S/MH(C90/270)	0.36
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	414.95	η UP,DN(C0-180)	0.5,52.6
NOMINAL FLUX(lm)	414.947	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.4,46.5
LAMPS INSIDE	1	η up(%)	0.9	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	220.1	η down(%)	99.1	CIBSE SHR MAX	1.00

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:02 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	1351	1394	1451	1417	1331	1271	1205	1229	0- 10	167.3	167.3	40.3,40.3
20	334.8	359.9	399.2	389.9	347.4	317.3	272.2	275.8	10- 20	199.2	366.5	88.3,88.3
30	20.86	20.89	22.64	22.53	21.13	20.04	19.09	19.15	20- 30	34.96	401.5	96.8,96.8
40	3.817	4.224	7.569	6.867	4.529	3.984	3.075	3.027	30- 40	8.207	409.7	98.7,98.7
50	0.5280	0.5672	0.7136	0.7994	0.7216	0.6398	0.5156	0.4550	40- 50	1.247	410.9	99,99
60	0.1677	0.1710	0.1924	0.2103	0.1742	0.1672	0.1457	0.1385	50- 60	0.2976	411.2	99.1,99.1
70	0.0677	0.0641	0.0677	0.0642	0.0463	0.0461	0.0426	0.0356	60- 70	0.0975	411.3	99.1,99.1
80	0.0214	0.0072	0.0143	0.0107	0	0	0	0	70- 80	0.0248	411.4	99.1,99.1
90	0	0	0	0	0	0	0	0	80- 90	0.0019	411.4	99.1,99.1
100	0	0	0	0	0	0	0	0	90-100	0	411.4	99.1,99.1
110	0	0	0	0	0	0	0	0	100-110	0.0000	411.4	99.1,99.1
120	0.0001	0.0035	0	0	0	0	0.0001	0	110-120	0.0009	411.4	99.1,99.1
130	0.0568	0.0461	0.0461	0.0496	0.0324	0.0360	0.0466	0.0465	120-130	0.0115	411.4	99.1,99.1
140	0.6042	0.5793	0.5473	0.5580	0.5034	0.5317	0.5745	0.5567	130-140	0.1787	411.5	99.2,99.2
150	2.181	2.113	2.046	2.053	1.657	1.679	1.754	1.686	140-150	0.7122	412.3	99.4,99.4
160	4.043	3.887	4.012	3.866	2.847	2.775	2.860	2.743	150-160	1.218	413.5	99.6,99.6
170	5.936	4.781	5.244	4.941	3.579	3.188	3.062	2.963	160-170	1.065	414.5	99.9,99.9
180	4.487	4.505	4.530	4.412	4.498	4.505	4.515	4.405	170-180	0.4056	414.9	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 410.55 lm

%lum = 98.9%

%lamp = 98.9%

Conical surface Flux(120deg): 411.23 lm

%lum = 99.1%

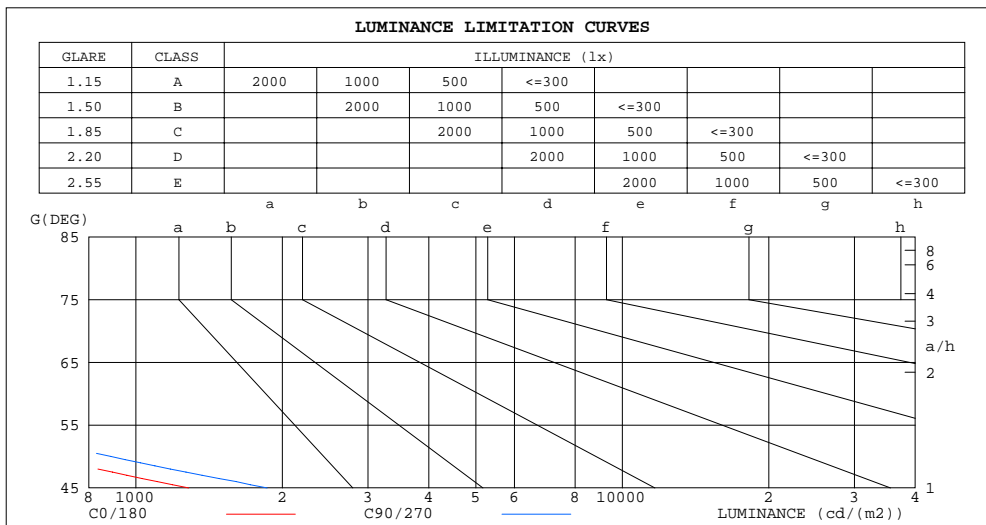
%lamp = 99.1%

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:XXXX
 Test Date:02 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: DL3026B930	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: VJC Lighting Limited	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	0	97
80	98	66
75	121	99
70	158	158
65	202	203
60	268	308
55	393	478
50	657	888
45	1284	1861

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators: XXXX
Test Date: 02 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: DL3026B930	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: VJC Lighting Limited	SUR.:	Shielding Angle:

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	.130	.074	.023	.123	.070	.022	.110	.063	.020	.098	.057	.018	.087	.051	.016	
2.0	.119	.065	.020	.114	.063	.019	.103	.057	.018	.093	.052	.016	.084	.048	.015	
3.0	.110	.059	.018	.106	.057	.017	.097	.053	.016	.089	.049	.015	.081	.045	.014	
4.0	.103	.054	.016	.099	.052	.015	.092	.049	.015	.085	.045	.014	.078	.043	.013	
5.0	.097	.049	.014	.093	.048	.014	.087	.045	.013	.081	.043	.013	.075	.040	.012	
6.0	.091	.046	.013	.088	.045	.013	.083	.042	.012	.078	.040	.012	.073	.038	.011	
7.0	.086	.043	.012	.084	.042	.012	.079	.040	.012	.075	.038	.011	.071	.037	.011	
8.0	.082	.040	.011	.080	.039	.011	.076	.038	.011	.072	.036	.011	.068	.035	.010	
9.0	.079	.038	.011	.077	.037	.010	.073	.036	.010	.069	.035	.010	.066	.034	.010	
10.0	.075	.036	.010	.073	.035	.010	.070	.034	.010	.067	.033	.009	.064	.032	.009	

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	.197	.197	.197	.168	.168	.168	.115	.115	.115	.066	.066	.066	.021	.021	.021		
1.0	.174	.164	.155	.149	.141	.134	.102	.097	.092	.059	.056	.054	.019	.018	.017		
2.0	.156	.139	.126	.134	.120	.109	.092	.083	.076	.053	.048	.044	.017	.016	.014		
3.0	.140	.120	.104	.120	.103	.090	.083	.072	.063	.048	.042	.037	.015	.014	.012		
4.0	.128	.104	.087	.109	.090	.075	.075	.063	.053	.044	.037	.031	.014	.012	.010		
5.0	.117	.092	.074	.100	.080	.064	.069	.056	.045	.040	.033	.027	.013	.011	.009		
6.0	.108	.082	.064	.092	.071	.055	.064	.050	.039	.037	.029	.023	.012	.010	.008		
7.0	.100	.074	.055	.086	.064	.048	.059	.045	.034	.034	.026	.020	.011	.009	.007		
8.0	.093	.067	.049	.080	.058	.042	.055	.041	.030	.032	.024	.018	.010	.008	.006		
9.0	.087	.061	.043	.075	.053	.038	.052	.037	.027	.030	.022	.016	.010	.007	.005		
10.0	.082	.056	.039	.071	.049	.034	.049	.034	.024	.029	.020	.014	.009	.007	.005		

C Range: 0 - 360DEG

C Interval: 22.5DEG

Test Speed: MEDIUM

Temperature:25.3DEG

Operators:XXXX

Test Date:02 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: DL3026B930					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					6.3	6.9	6.6	7.1	7.3	6.9	7.5	7.1	7.7	7.8
3H					6.2	6.8	6.5	7.0	7.2	6.8	7.3	7.0	7.5	7.7
4H					6.1	6.7	6.4	6.9	7.1	6.7	7.2	7.0	7.5	7.7
6H					6.0	6.5	6.3	6.8	7.0	6.6	7.1	6.9	7.4	7.6
8H					6.0	6.5	6.3	6.7	7.0	6.6	7.1	6.9	7.3	7.6
12H					6.0	6.4	6.3	6.7	7.0	6.5	7.0	6.8	7.3	7.5
4H 2H					6.1	6.7	6.4	6.9	7.1	6.7	7.2	7.0	7.4	7.7
3H					6.0	6.4	6.3	6.7	7.0	6.5	7.0	6.9	7.3	7.6
4H					5.9	6.3	6.2	6.6	6.9	6.4	6.9	6.8	7.2	7.5
6H					5.8	6.1	6.1	6.5	6.8	6.3	6.7	6.7	7.1	7.4
8H					5.7	6.1	6.1	6.4	6.8	6.3	6.6	6.7	7.0	7.4
12H					5.7	6.0	6.1	6.4	6.8	6.2	6.5	6.6	6.9	7.3
8H 4H					5.7	6.1	6.1	6.4	6.8	6.3	6.6	6.7	7.0	7.4
6H					5.6	5.9	6.0	6.3	6.7	6.2	6.5	6.6	6.9	7.3
8H					5.5	5.8	6.0	6.2	6.7	6.1	6.4	6.6	6.8	7.2
12H					5.5	5.7	5.9	6.1	6.6	6.0	6.3	6.5	6.7	7.2
12H 4H					5.6	6.0	6.1	6.4	6.8	6.2	6.5	6.6	6.9	7.3
6H					5.5	5.8	6.0	6.2	6.7	6.1	6.4	6.6	6.8	7.2
8H					5.5	5.7	5.9	6.1	6.6	6.0	6.3	6.5	6.7	7.2
Variations with the observer position at spacings:														
S = 1.0H					+ 3.6 / -14.2					+ 3.3 / -14.8				
1.5H					+ 6.3 / -12.3					+ 5.9 / -12.9				
2.0H					+ 5.4 / - 5.3					+ 6.5 / - 6.6				

CIE Pub.117, 414.9 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -3.1)

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:XXXX
Test Date:02 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: DL3026B930	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: VJC Lighting Limited	SUR.:	Shielding Angle:

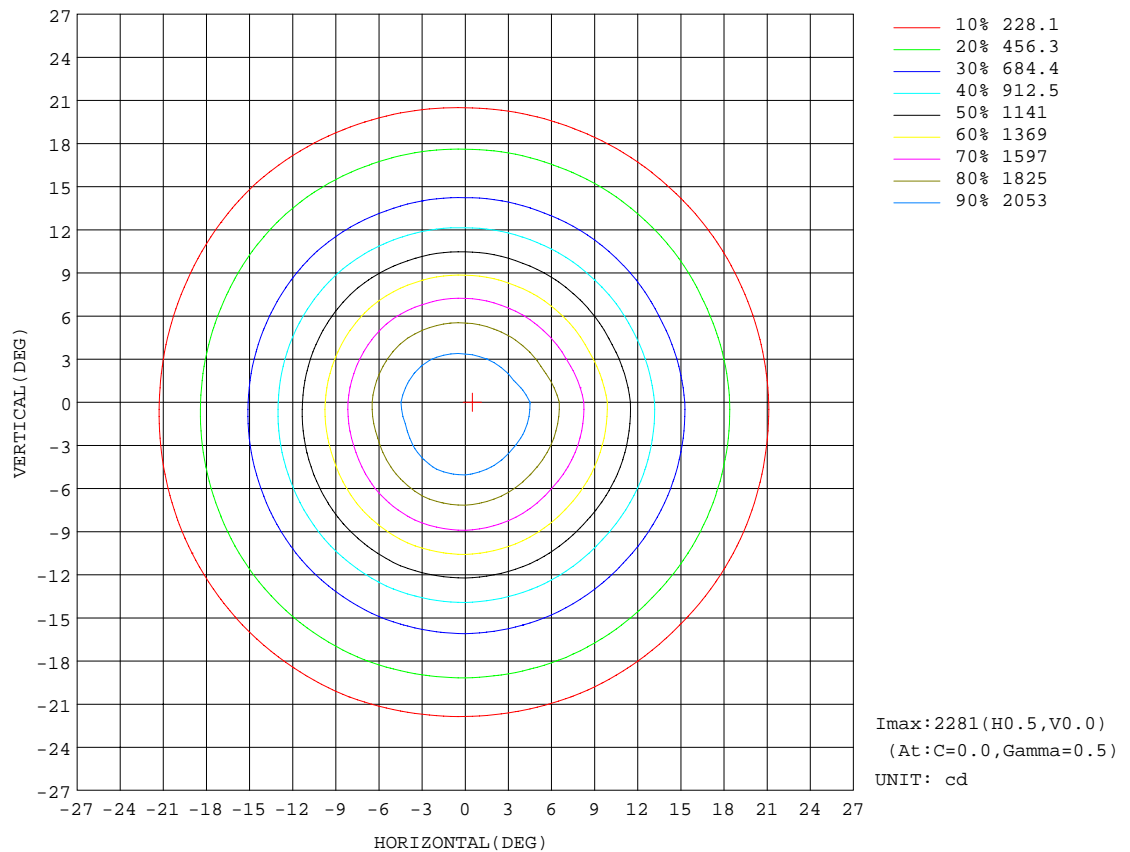
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	91	85	82	90	85	82	90	85	81	78
0.80	98	93	89	97	92	89	96	92	89	85
1.00	101	96	93	101	96	93	99	96	92	89
1.25	105	100	97	104	100	97	102	98	96	92
1.50	107	103	100	106	102	100	104	101	98	94
2.00	110	106	103	108	105	102	105	103	100	95
2.50	111	108	105	109	106	104	106	104	102	96
3.00	112	109	107	111	108	106	107	105	103	97
4.00	114	112	110	112	110	108	108	107	106	98
5.00	115	113	112	113	112	110	109	108	107	99
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:02 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: DL3026B930	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: VJC Lighting Limited	SUR.:	Shielding Angle:

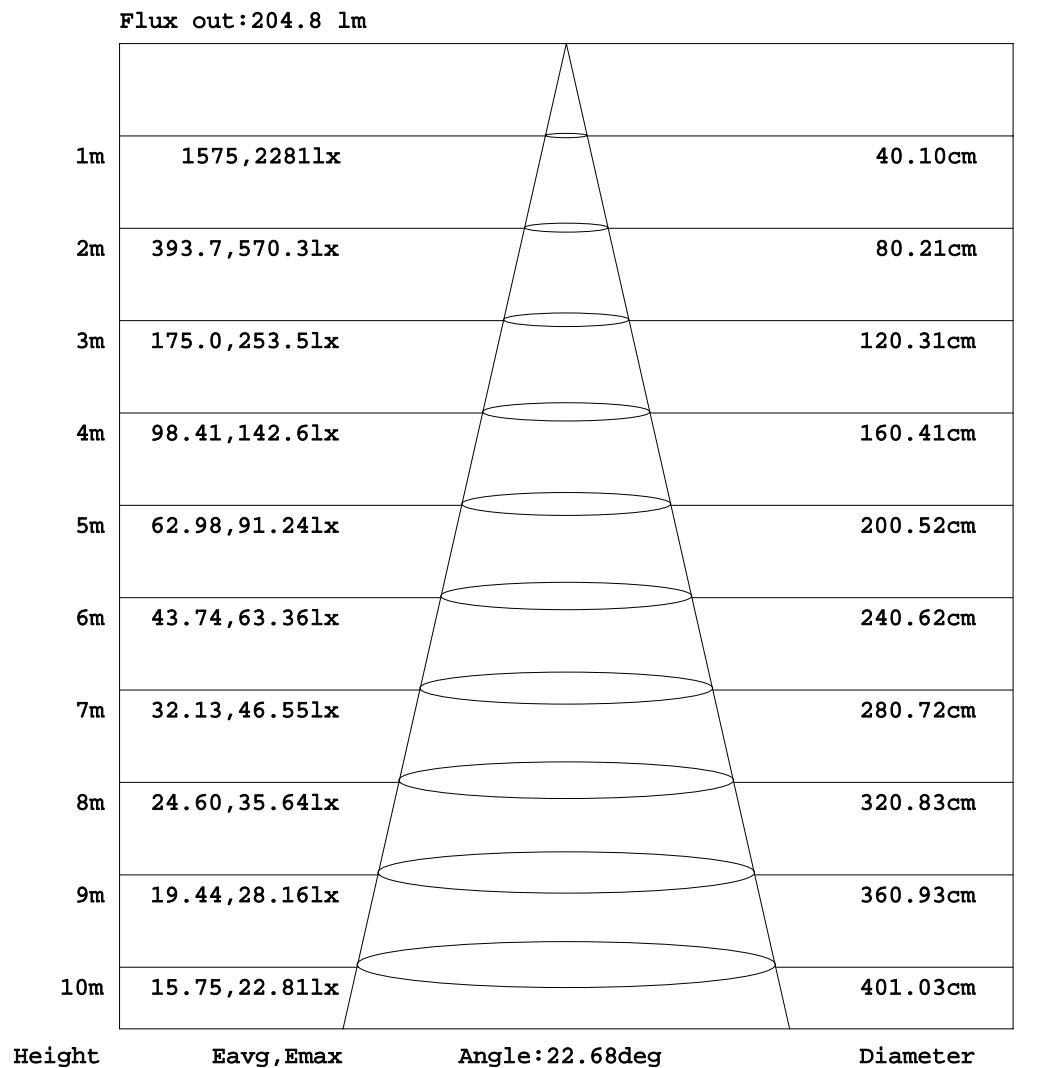


C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: MEDIUM
 Temperature: 25.3DEG
 Operators: XXXX
 Test Date: 02 March 2017

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: DL3026B930	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: VJC Lighting Limited	SUR.:	Shielding Angle:

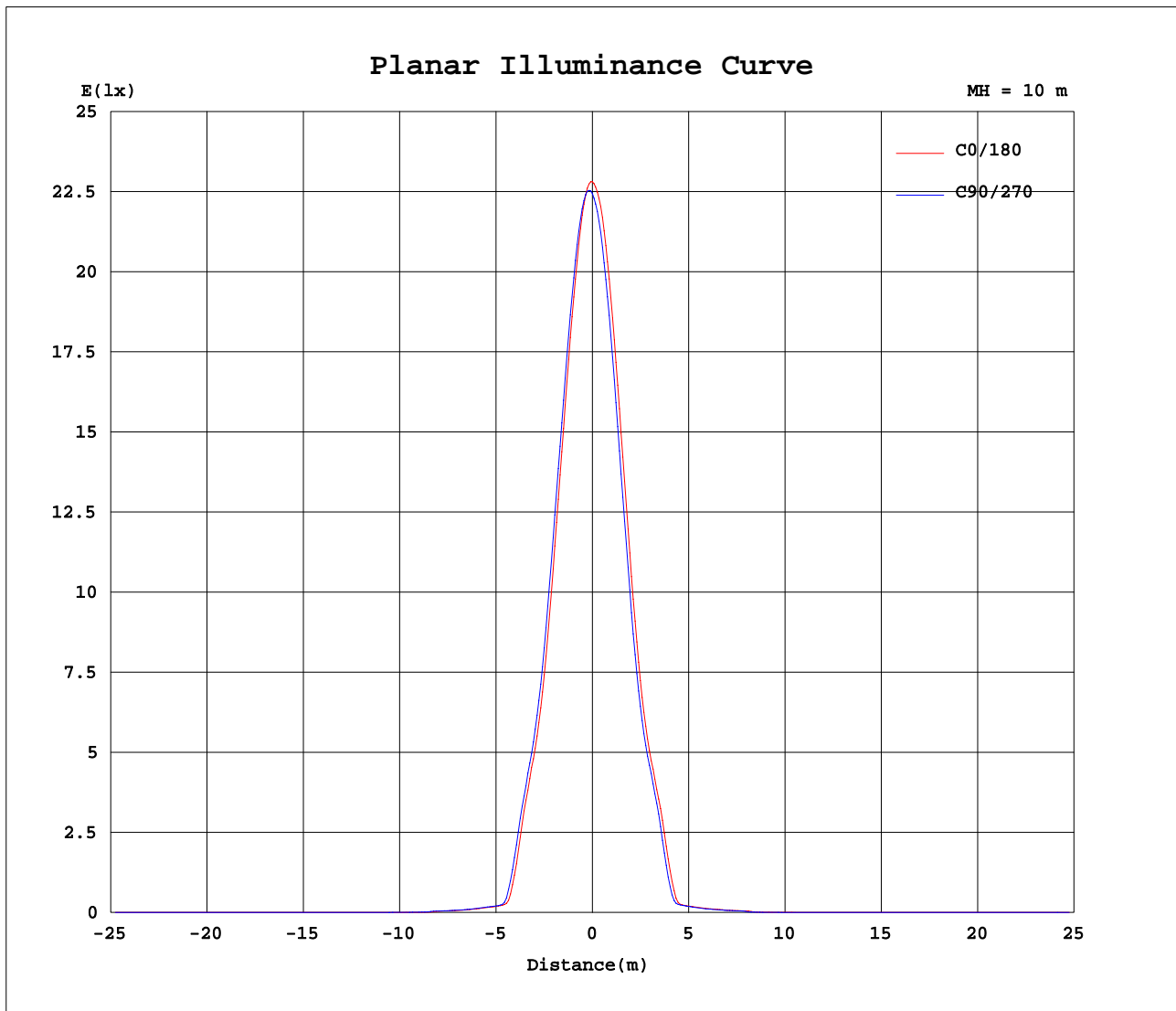


Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: MEDIUM
 Temperature: 25.3DEG
 Operators: XXXX
 Test Date: 02 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: 02 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: DL3026B930	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	2281	2269	2260	2252	2244	2240	2236	2233	2281	2269	2260	2252	2244	2240	2236	2233			
5	2000	2010	2016	2039	2059	2062	2035	2000	2001	1971	1943	1911	1886	1882	1894	1921			
10	1351	1371	1394	1428	1451	1448	1417	1363	1331	1297	1271	1227	1205	1201	1229	1267			
15	709	728	743	772	791	785	757	720	693	671	656	632	620	619	637	661			
20	335	349	360	387	399	404	390	371	347	325	317	292	272	269	276	301			
25	31.3	31.9	31.4	32.8	34.9	35.8	33.9	32.2	31.9	31.9	31.6	30.8	30.6	30.5	29.6	29.8			
30	20.9	21.3	20.9	22.0	22.6	23.1	22.5	21.3	21.1	21.1	20.0	19.5	19.1	19.9	19.1	19.9			
35	12.3	12.5	12.8	13.6	13.6	13.9	13.8	14.0	14.0	13.8	13.8	13.3	12.4	11.5	11.6	11.9			
40	3.82	3.96	4.22	5.80	7.57	7.09	6.87	4.91	4.53	4.23	3.98	3.47	3.08	2.91	3.03	3.33			
45	1.13	1.16	1.29	1.48	1.65	1.77	1.80	1.74	1.65	1.53	1.43	1.31	1.13	1.03	0.99	1.06			
50	0.53	0.51	0.57	0.61	0.71	0.75	0.80	0.78	0.72	0.70	0.64	0.62	0.52	0.50	0.46	0.50			
55	0.28	0.26	0.29	0.29	0.34	0.35	0.40	0.35	0.33	0.35	0.32	0.31	0.27	0.26	0.24	0.27			
60	0.17	0.15	0.17	0.16	0.19	0.17	0.21	0.18	0.17	0.19	0.17	0.18	0.15	0.16	0.14	0.16			
65	0.11	0.08	0.10	0.08	0.11	0.09	0.12	0.10	0.09	0.10	0.09	0.10	0.07	0.10	0.07	0.10			
70	0.07	0.04	0.06	0.04	0.07	0.06	0.06	0.05	0.05	0.06	0.05	0.06	0.04	0.05	0.04	0.06			
75	0.04	0.02	0.03	0.01	0.03	0.01	0.03	0.01	0.01	0.03	0.01	0.03	0.01	0.03	0.01	0.03			
80	0.02	0.00	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.01	0.00	0.01	0.00	0.01	0.00	0.01			
85	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
120	0.00	0.01	0.00	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
125	0.01	0.02	0.00	0.02	0.00	0.02	0.00	0.02	0.01	0.00	0.01	0.00	0.00	0.00	0.01	0.00			
130	0.06	0.07	0.05	0.07	0.05	0.05	0.05	0.06	0.03	0.02	0.04	0.02	0.05	0.03	0.05	0.02			
135	0.23	0.25	0.23	0.23	0.21	0.22	0.22	0.24	0.18	0.17	0.19	0.18	0.22	0.19	0.21	0.17			
140	0.60	0.62	0.58	0.57	0.55	0.56	0.56	0.60	0.50	0.49	0.53	0.53	0.57	0.55	0.56	0.51			
145	1.27	1.25	1.24	1.19	1.16	1.17	1.18	1.23	1.02	1.01	1.04	1.05	1.11	1.08	1.06	1.01			
150	2.18	2.13	2.11	2.08	2.05	2.04	2.05	2.11	1.66	1.66	1.68	1.72	1.75	1.74	1.69	1.64			
155	3.15	3.09	3.10	3.16	3.18	3.07	3.03	3.06	2.27	2.27	2.32	2.39	2.44	2.38	2.29	2.23			
160	4.04	3.92	3.89	3.94	4.01	3.94	3.87	3.91	2.85	2.76	2.77	2.89	2.86	2.78	2.74	2.69			
165	4.94	4.47	4.25	4.50	4.68	4.61	4.30	4.67	3.38	3.00	3.00	3.18	3.16	2.93	2.83	2.94			
170	5.94	5.31	4.78	5.01	5.24	4.89	4.94	5.53	3.58	3.32	3.19	3.09	3.06	2.85	2.96	3.09			
175	5.54	5.13	5.02	4.88	4.96	4.79	5.09	5.03	3.57	3.66	3.53	3.45	3.17	3.24	3.21	3.33			
180	4.49	4.27	4.50	4.33	4.53	4.22	4.41	4.07	4.50	4.24	4.50	4.31	4.52	4.21	4.40	4.05			

C Range: 0 - 360DEG

C Interval: 22.5DEG

Test Speed: MEDIUM

Temperature:25.3DEG

Operators:XXXX

Test Date:02 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: