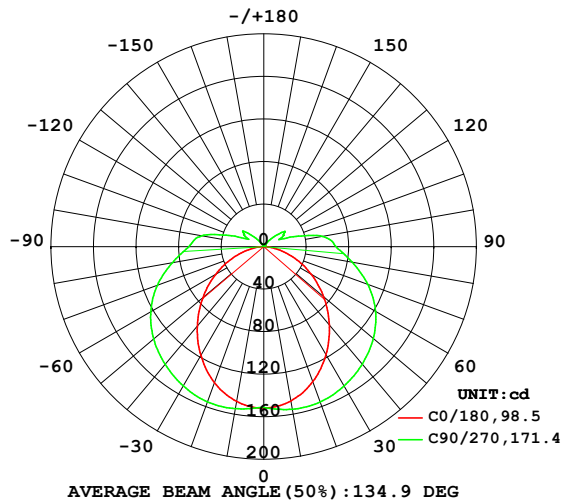


**LUMINAIRE PHOTOMETRIC TEST REPORT**

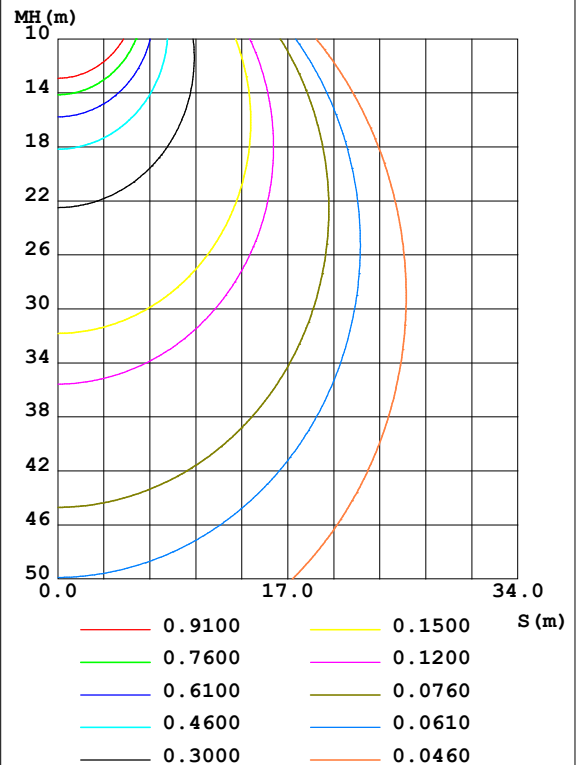
NAME: SD3102 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: VJC Lighting	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 73.77 lm/W			
MODEL	SD3102 3000K	I <sub>max</sub> (cd)	155.9	S/MH(C0/180)	1.17
NOMINAL POWER(W)	9	LOR(%)	100.0	S/MH(C90/270)	1.50
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	682.78	□ UP,DN(C0-180)	7.1,42.5
NOMINAL FLUX(lm)	682.782	CIE CLASS	SEMI-D.	□ UP,DN(C180-360)	7.4,42.9
LAMPS INSIDE	1	□ up(%)	14.6	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	220.1	□ down(%)	85.4	CIBSE SHR MAX	1.55

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 23 March 2021

□ Range: 0 - 180DEG  
 □ Interval: 1.0DEG  
 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:

°	C0	C45	C90	C135	C180	C225	C270	C315	°	□ zone	□ total	%lum, lamp
10	147.2	152.3	155.2	152.0	147.8	151.7	154.7	151.5	0- 10	14.49	14.49	2.12,2.12
20	135.1	147.9	155.4	147.8	136.1	147.6	155.3	147.4	10- 20	42.34	56.83	8.32,8.32
30	117.2	138.6	151.2	138.7	118.4	138.8	151.4	138.6	20- 30	65.66	122.5	17.9,17.9
40	96.04	125.8	144.1	126.2	97.29	126.5	144.4	126.2	30- 40	81.84	204.3	29.9,29.9
50	73.65	110.7	134.5	111.4	74.88	112.0	135.1	111.7	40- 50	89.93	294.3	43.1,43.1
60	51.26	93.71	121.3	94.54	52.37	95.59	122.8	95.30	50- 60	89.79	384.0	56.2,56.2
70	29.66	74.98	104.1	75.94	30.63	77.42	106.5	77.20	60- 70	81.69	465.7	68.2,68.2
80	10.71	56.25	84.34	57.33	11.46	59.00	87.29	58.77	70- 80	66.98	532.7	78,78
90	0.1925	43.16	68.17	44.03	0.1567	44.90	70.38	44.79	80- 90	50.60	583.3	85.4,85.4
100	0.3630	31.39	56.13	33.89	0.3242	35.57	59.29	34.93	90-100	40.76	624.1	91.4,91.4
110	0.6086	17.90	26.50	20.32	0.5451	19.80	29.06	18.00	100-110	25.23	649.3	95.1,95.1
120	0.8436	16.50	22.25	18.05	0.7765	18.80	21.67	17.70	110-120	14.22	663.5	97.2,97.2
130	1.153	6.510	19.14	7.219	1.058	7.612	20.23	7.282	120-130	11.31	674.8	98.8,98.8
140	1.065	2.178	6.438	2.409	0.9045	3.060	6.888	2.900	130-140	4.919	679.8	99.6,99.6
150	1.058	1.589	1.591	1.778	0.9259	1.716	2.468	1.574	140-150	1.581	681.3	99.8,99.8
160	1.054	2.126	1.196	2.216	0.9686	2.222	1.152	2.069	150-160	0.7980	682.1	99.9,99.9
170	1.047	1.689	2.393	1.553	1.015	1.584	2.625	1.747	160-170	0.5212	682.7	100,100
180	1.047	1.065	1.079	1.075	1.047	1.065	1.079	1.072	170-180	0.1294	682.8	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 248.79 lm

%lum = 36.4%

%lamp = 36.4%

Conical surface Flux(120deg): 384.05 lm

%lum = 56.2%

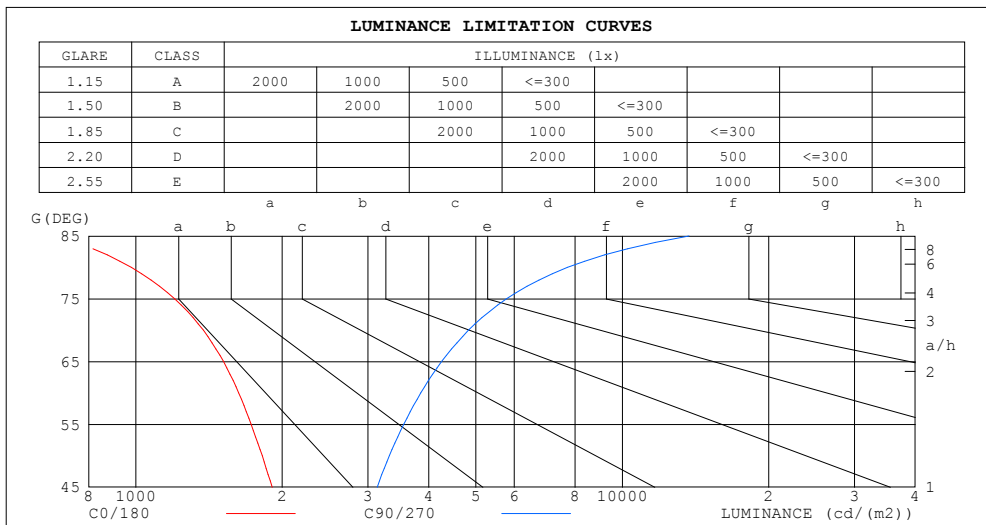
%lamp = 56.2%

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:23 March 2021

□ Range: 0 - 180DEG  
 □ Interval: 1.0DEG  
 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: SD3102 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: VJC Lighting	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	690	13708
80	979	7710
75	1202	5780
70	1376	4832
65	1515	4254
60	1627	3852
55	1727	3554
50	1819	3321
45	1906	3135

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 23 March 2021

☐ Range: 0 - 180DEG  
☐ Interval: 1.0DEG  
 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: SD3102 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: VJC Lighting	SUR.:	Shielding Angle:

<input type="checkbox"/> cc	80%	70%	50%	30%	10%	0
<input type="checkbox"/> w	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	0
<input type="checkbox"/> fc	20%	20%	20%	20%	20%	0
RCR	RCR:Room Cavity Ratio Wall Exitance Coefficients(WEC)					
0.0						
1.0	.387 .220 .070	.375 .214 .068	.353 .203 .065	.333 .192 .062	.315 .182 .059	
2.0	.336 .184 .056	.325 .179 .055	.305 .170 .053	.287 .161 .050	.270 .153 .048	
3.0	.298 .159 .048	.289 .155 .047	.271 .147 .045	.255 .140 .043	.239 .133 .041	
4.0	.269 .140 .041	.260 .136 .040	.244 .129 .039	.229 .123 .037	.215 .117 .036	
5.0	.244 .124 .036	.237 .121 .035	.222 .116 .034	.208 .110 .033	.196 .105 .031	
6.0	.224 .112 .032	.217 .109 .032	.203 .104 .030	.191 .099 .029	.179 .094 .028	
7.0	.206 .102 .029	.200 .100 .028	.188 .095 .027	.177 .090 .026	.166 .086 .025	
8.0	.191 .093 .026	.185 .091 .026	.174 .087 .025	.164 .083 .024	.154 .079 .023	
9.0	.178 .086 .024	.173 .084 .024	.163 .080 .023	.153 .077 .022	.144 .073 .021	
10.0	.167 .080 .022	.162 .078 .022	.153 .075 .021	.144 .071 .020	.135 .068 .020	

<input type="checkbox"/> cc	80%	70%	50%	30%	10%	0
<input type="checkbox"/> w	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	0
<input type="checkbox"/> fc	20%	20%	20%	20%	20%	0
RCR	RCR:Room Cavity Ratio Ceiling Cavity Exitance Coefficients(CCEC)					
0.0	.301 .301 .301	.258 .258 .258	.176 .176 .176	.101 .101 .101	.032 .032 .032	
1.0	.298 .267 .240	.255 .229 .207	.174 .158 .143	.100 .091 .083	.032 .029 .027	
2.0	.291 .244 .205	.249 .210 .178	.171 .146 .124	.098 .085 .073	.032 .027 .024	
3.0	.283 .228 .184	.243 .196 .159	.167 .136 .112	.096 .080 .066	.031 .026 .022	
4.0	.275 .215 .169	.236 .186 .147	.163 .130 .103	.094 .076 .061	.030 .025 .020	
5.0	.268 .205 .159	.230 .178 .139	.158 .124 .098	.092 .073 .058	.030 .024 .019	
6.0	.260 .197 .152	.224 .171 .133	.154 .120 .094	.090 .070 .056	.029 .023 .018	
7.0	.253 .191 .147	.218 .165 .128	.150 .116 .091	.087 .068 .054	.028 .022 .018	
8.0	.246 .185 .143	.212 .161 .125	.147 .113 .088	.085 .066 .053	.028 .022 .017	
9.0	.240 .180 .140	.207 .156 .122	.143 .110 .087	.083 .065 .052	.027 .021 .017	
10.0	.234 .176 .137	.202 .153 .120	.140 .108 .085	.082 .064 .051	.026 .021 .017	

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:23 March 2021

☐ Range: 0 - 180DEG  
☐ Interval: 1.0DEG  
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: SD3102 3000K					TYPE:					WEIGHT:				
SPEC.:					DIM.:					SERIAL No.:				
MFR.: VJC Lighting					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					15.1	16.5	15.5	16.9	17.4	18.3	19.7	18.7	20.1	20.6
3H					16.4	17.7	16.9	18.2	18.7	20.9	22.2	21.4	22.7	23.3
4H					16.9	18.1	17.4	18.7	19.2	22.3	23.6	22.9	24.1	24.7
6H					17.2	18.4	17.8	18.9	19.5	23.9	25.0	24.4	25.6	26.2
8H					17.3	18.5	17.9	19.0	19.6	24.7	25.8	25.3	26.4	27.0
12H					17.3	18.4	17.9	19.0	19.6	25.7	26.8	26.2	27.3	27.9
4H 2H					16.5	17.7	17.0	18.2	18.8	18.7	20.0	19.3	20.5	21.1
3H					18.1	19.2	18.7	19.8	20.4	21.7	22.8	22.2	23.3	23.9
4H					18.8	19.8	19.4	20.4	21.0	23.3	24.3	23.9	24.9	25.5
6H					19.3	20.2	19.9	20.8	21.5	25.0	25.9	25.6	26.5	27.2
8H					19.5	20.4	20.1	21.0	21.7	26.0	26.9	26.6	27.5	28.2
12H					19.6	20.4	20.2	21.0	21.7	27.1	27.9	27.8	28.5	29.2
8H 4H					20.0	20.9	20.7	21.5	22.2	23.6	24.4	24.2	25.0	25.7
6H					21.0	21.7	21.6	22.3	23.1	25.6	26.3	26.3	27.0	27.7
8H					21.3	22.0	22.0	22.7	23.4	26.8	27.4	27.5	28.1	28.9
12H					21.6	22.2	22.3	22.9	23.7	28.2	28.8	28.9	29.4	30.2
12H 4H					20.4	21.2	21.1	21.8	22.6	23.6	24.3	24.2	25.0	25.7
6H					21.6	22.3	22.3	22.9	23.7	25.7	26.4	26.4	27.0	27.8
8H					22.2	22.7	22.9	23.4	24.2	27.0	27.6	27.7	28.2	29.0
Variations with the observer position at spacings:														
S = 1.0H					+ 0.1 / - 0.2					+ 0.1 / - 0.1				
1.5H					+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H					+ 0.3 / - 0.5					+ 0.2 / - 0.3				

CIE Pub.117, 682.8 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -1.3)

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:23 March 2021

☐ Range: 0 - 180DEG  
☐ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.650m [K=1.0000]  
Remarks:

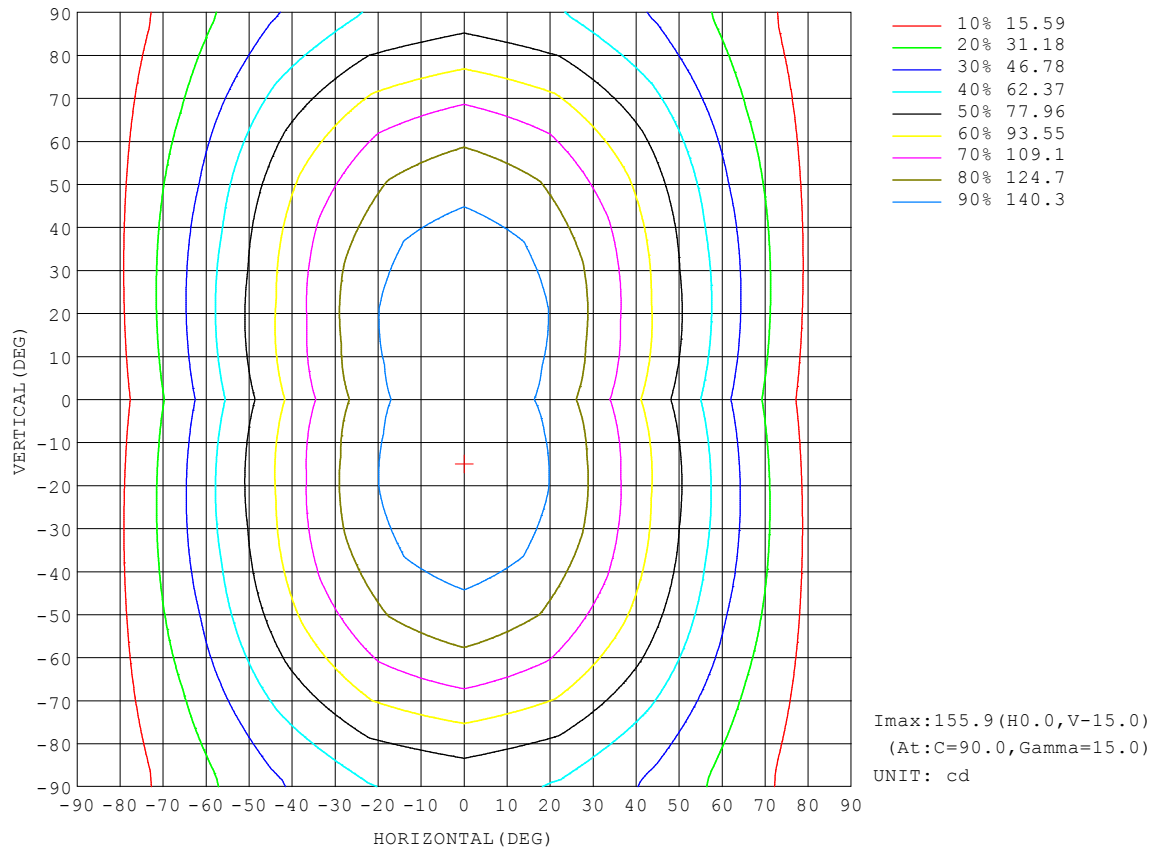
```

Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.650m [K=1.0000]
Remarks:

```

### ISOCANDELA DIAGRAM

NAME: SD3102 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: VJC Lighting	SUR.:	Shielding Angle:

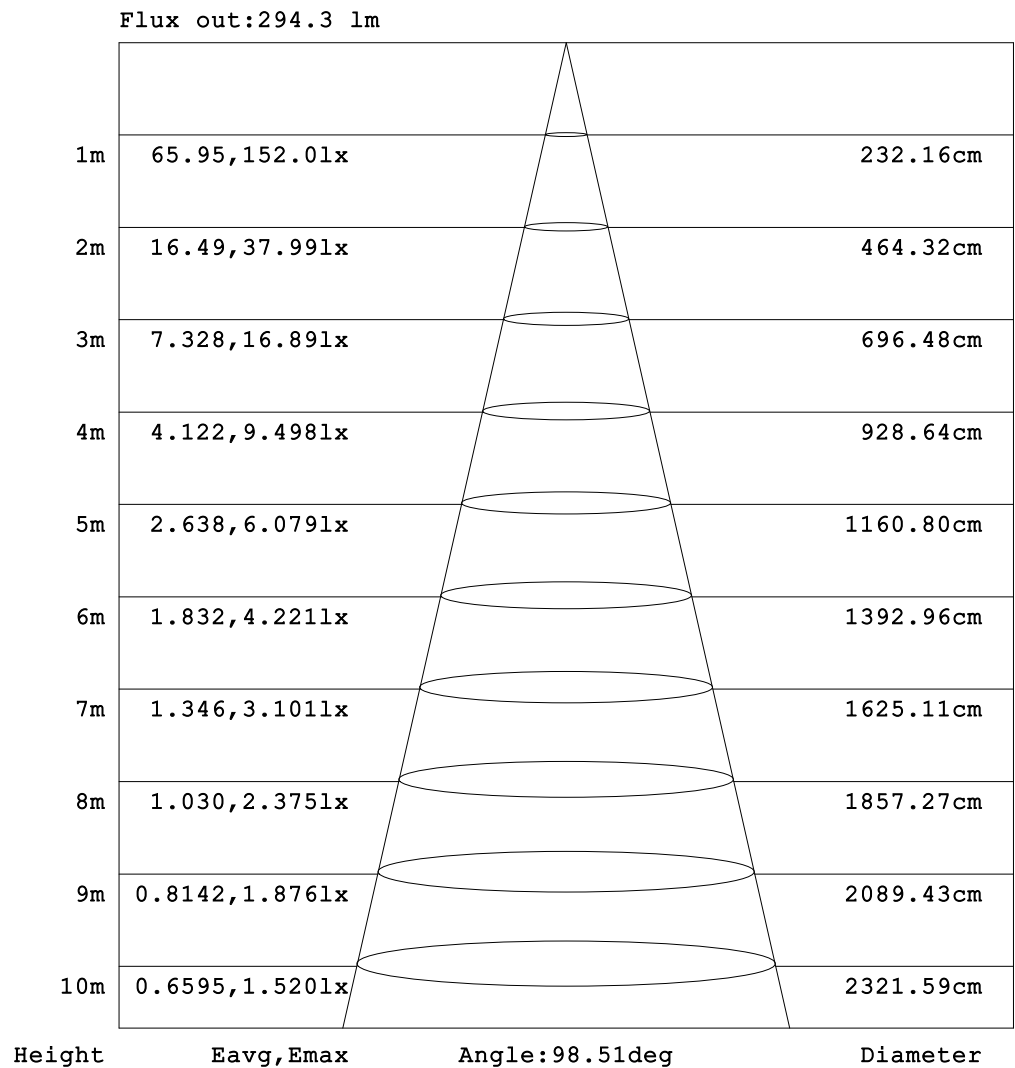


C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:23 March 2021

☐ Range: 0 - 180DEG  
☐ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.650m [K=1.0000]  
Remarks:

### AAI Figure

NAME: SD3102 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: VJC Lighting	SUR.:	Shielding Angle:



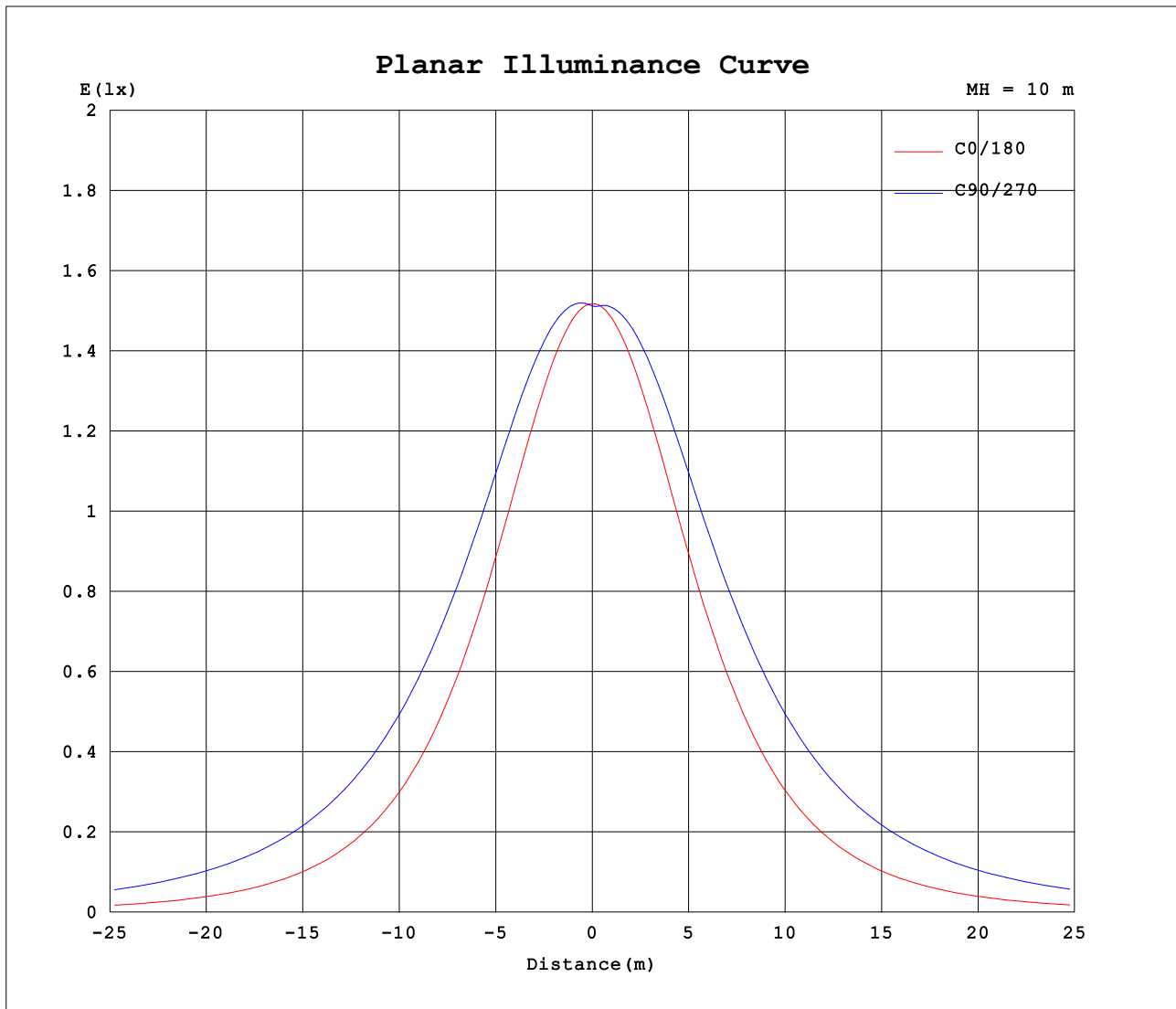
**Note:**The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:23 March 2021

☐ Range: 0 - 180DEG  
☐ Interval: 1.0DEG  
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: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 23 March 2021

☐ Range: 0 - 180DEG  
☐ Interval: 1.0DEG  
 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: SD3102 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: VJC Lighting	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C (DEG) □ (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	152	152	151	151	151	151	151	151	152	152	151	151	151	151	151	151			
5	151	151	153	153	153	153	152	151	151	151	152	153	153	153	152	151			
10	147	150	152	155	155	154	152	149	148	149	152	154	155	154	152	149			
15	142	146	151	155	156	154	151	146	143	146	150	154	156	154	150	145			
20	135	141	148	154	155	153	148	141	136	140	148	153	155	153	147	140			
25	127	134	144	151	154	151	144	134	128	134	144	151	154	151	144	134			
30	117	127	139	148	151	148	139	127	118	127	139	148	151	148	139	126			
35	107	118	133	144	148	144	133	119	108	118	133	144	148	144	133	118			
40	96.0	109	126	139	144	139	126	110	97.3	109	127	139	144	139	126	109			
45	84.9	99.7	118	134	140	134	119	100	86.2	100	119	134	140	134	119	99.7			
50	73.6	90.0	111	128	134	128	111	90.5	74.9	90.4	112	129	135	128	112	90.1			
55	62.4	80.1	102	121	128	121	103	80.7	63.6	80.7	104	122	129	122	104	80.4			
60	51.3	70.2	93.7	113	121	114	94.5	70.7	52.4	70.8	95.6	115	123	115	95.3	70.6			
65	40.3	60.2	84.5	105	113	106	85.4	60.8	41.3	61.0	86.7	107	115	107	86.4	60.8			
70	29.7	50.2	75.0	95.6	104	96.4	75.9	50.8	30.6	51.1	77.4	98.1	107	97.9	77.2	51.0			
75	19.6	40.4	65.4	85.9	94.2	86.7	66.4	41.1	20.5	41.5	68.1	88.7	97.0	88.4	67.9	41.3			
80	10.7	31.4	56.3	76.2	84.3	77.1	57.3	32.1	11.5	32.5	59.0	79.2	87.3	78.9	58.8	32.4			
85	3.79	24.0	48.4	67.5	75.3	68.4	49.5	24.8	4.40	25.2	51.1	70.5	78.2	70.2	50.8	25.1			
90	0.19	19.7	43.2	61.0	68.2	61.7	44.0	20.2	0.16	20.3	44.9	63.3	70.4	63.1	44.8	20.4			
95	0.27	18.1	40.0	57.3	64.0	58.2	41.5	18.8	0.23	19.0	42.6	59.8	66.3	59.7	42.5	18.9			
100	0.36	13.4	31.4	49.9	56.1	51.5	33.9	14.9	0.32	14.9	35.6	53.3	59.3	53.1	34.9	14.2			
105	0.48	10.4	21.4	35.0	39.6	37.0	24.0	11.9	0.42	11.8	25.4	38.6	43.3	37.9	23.8	10.9			
110	0.61	7.57	17.9	23.1	26.5	25.2	20.3	8.45	0.55	8.45	19.8	26.4	29.1	25.0	18.0	7.97			
115	0.75	4.83	19.4	19.4	15.9	20.9	21.5	5.13	0.68	5.19	21.2	20.4	17.3	19.4	19.6	5.17			
120	0.84	3.44	16.5	22.7	22.2	23.8	18.1	3.43	0.78	3.44	18.8	23.4	21.7	22.6	17.7	3.54			
125	1.02	3.60	11.3	23.3	24.6	24.3	12.4	3.38	0.93	3.35	13.0	25.3	24.0	24.4	12.3	3.63			
130	1.15	3.56	6.51	16.1	19.1	17.0	7.22	3.81	1.06	3.66	7.61	17.6	20.2	16.9	7.28	3.70			
135	1.21	3.71	3.30	9.63	12.4	10.4	3.58	3.86	1.07	3.80	3.60	10.8	13.3	10.2	3.42	3.80			
140	1.07	3.16	2.18	3.92	6.44	4.63	2.41	3.29	0.90	3.25	3.06	4.88	6.89	4.32	2.90	3.36			
145	1.06	2.71	2.03	2.08	2.57	2.58	2.24	2.79	0.91	2.77	2.67	2.65	2.40	2.21	2.22	2.89			
150	1.06	2.58	1.59	2.20	1.59	2.61	1.78	2.59	0.93	2.56	1.72	3.17	2.47	2.79	1.57	2.69			
155	1.05	2.03	1.82	1.30	1.31	1.55	1.91	2.12	0.93	2.21	1.66	1.54	1.20	1.29	1.69	2.18			
160	1.05	1.60	2.13	1.63	1.20	1.78	2.22	1.66	0.97	1.68	2.22	1.40	1.15	1.49	2.07	1.67			
165	1.05	1.30	2.09	2.45	2.25	2.48	2.11	1.38	1.00	1.40	2.37	2.18	1.96	2.01	2.25	1.34			
170	1.05	1.11	1.69	2.25	2.39	2.31	1.55	1.14	1.01	1.14	1.58	2.45	2.62	2.32	1.75	1.11			
175	1.05	1.05	1.13	1.16	1.27	1.15	1.15	1.08	1.04	1.08	1.11	1.23	1.40	1.25	1.10	1.06			
180	1.05	1.05	1.06	1.08	1.08	1.07	1.08	1.05	1.05	1.05	1.06	1.08	1.08	1.07	1.07	1.05			

C Range: 0 - 360DEG

C Interval: 22.5DEG

Test Speed: HIGH

Temperature:25.3DEG

Operators:DAMIN

Test Date:23 March 2021

□ Range: 0 - 180DEG

□ Interval: 1.0DEG

Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362

Humidity:65.0%

Test Distance:7.650m [K=1.0000]

Remarks: