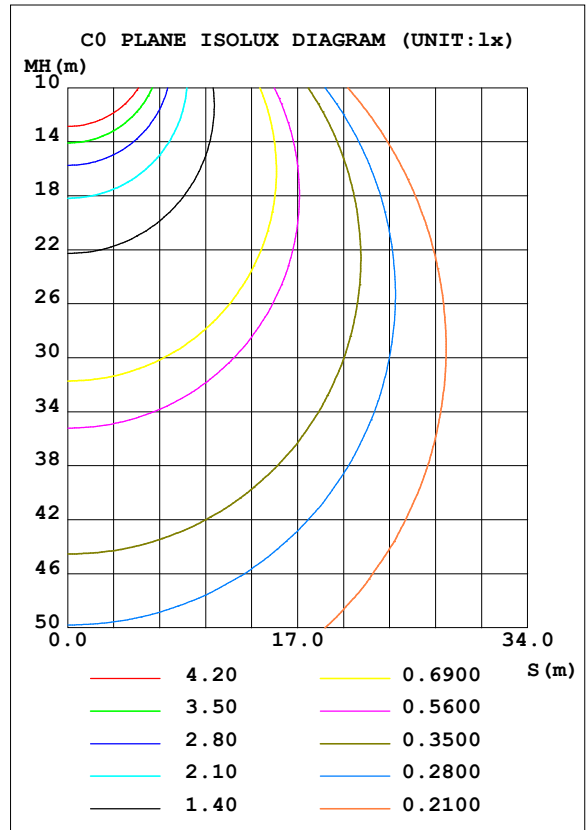
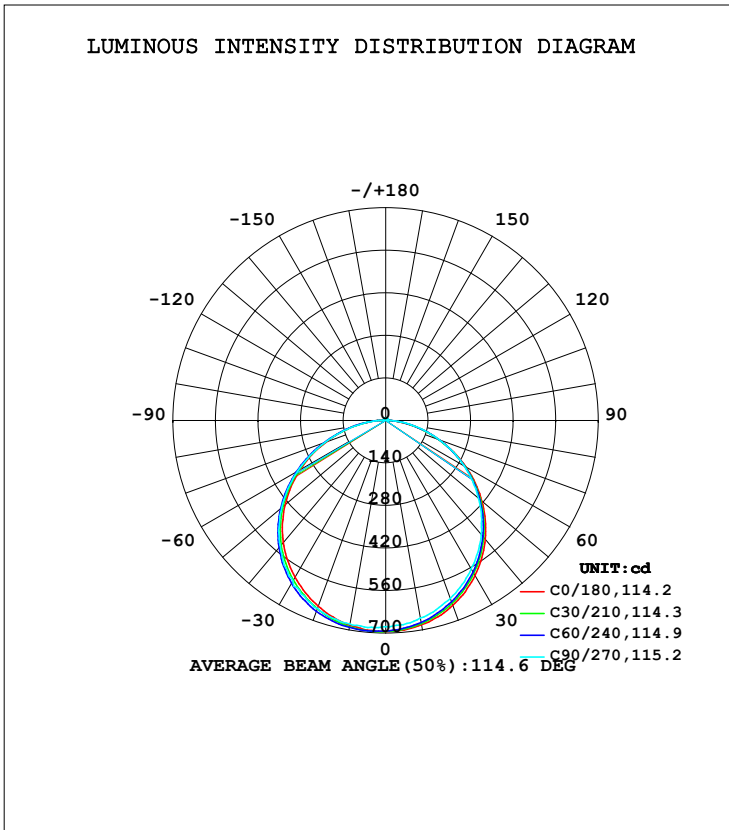


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:278.7V I:0.1330A P:33.50W PF:0.8990 Freq:60.00Hz Lamp Flux:2090.23x1 lm		
NAME: SPL-24-34DOB-95C-277D-WH 整灯 2700K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:24寸	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 62.40 lm/W			
MODEL		I _{max} (cd)	695.7	S/MH (C0/180)	1.28
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)	1.33
RATED VOLTAGE (V)		TOTAL FLUX (lm)	2090.2	η UP, DN (C0-180)	1.0, 47.2
NOMINAL FLUX (lm)	2090.23	CIE CLASS	DIRECT	η UP, DN (C180-360)	1.2, 50.6
LAMPS INSIDE	1	η up (%)	2.2	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)		η down (%)	97.8	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2024-03-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity: 65.0%
 Test Distance: 7.750m [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	682.9	676.7	660.2	668.8	684.3	690.1	680.8	684.2	0- 10	65.33	65.33	3.13,3.13
20	647.1	637.3	623.2	633.1	650.1	663.4	657.8	658.2	10- 20	188.0	253.3	12.1,12.1
30	588.6	577.7	564.0	574.6	596.5	613.0	611.1	606.2	20- 30	286.8	540.1	25.8,25.8
40	509.7	500.0	489.5	500.8	524.8	540.6	539.8	530.9	30- 40	348.6	888.7	42.5,42.5
50	413.4	406.5	399.6	409.8	432.6	446.7	447.3	436.5	40- 50	364.6	1253	60,60
60	304.2	300.0	298.0	307.0	325.1	336.0	334.5	324.5	50- 60	332.1	1585	75.9,75.9
70	188.5	187.2	188.4	196.6	209.3	215.3	213.6	204.0	60- 70	256.0	1842	88.1,88.1
80	79.86	82.41	85.90	91.45	99.80	101.0	98.60	90.96	70- 80	152.6	1994	95.4,95.4
90	8.550	8.499	8.440	10.97	14.78	12.39	10.43	10.32	80- 90	50.98	2045	97.8,97.8
100	6.979	6.972	6.816	7.011	8.183	8.231	7.986	8.094	90-100	9.183	2054	98.3,98.3
110	6.078	6.100	6.041	6.169	7.271	7.225	7.053	7.160	100-110	7.446	2062	98.6,98.6
120	5.634	5.722	5.681	5.760	7.080	7.001	6.872	6.976	110-120	6.404	2068	98.9,98.9
130	5.787	5.885	5.830	5.926	7.182	7.129	6.993	7.115	120-130	5.735	2074	99.2,99.2
140	6.284	6.363	6.308	6.423	7.480	7.448	7.307	7.442	130-140	5.164	2079	99.5,99.5
150	6.942	6.999	6.935	7.084	7.919	7.877	7.695	7.832	140-150	4.486	2084	99.7,99.7
160	7.686	7.720	7.668	7.812	8.342	8.326	8.196	8.288	150-160	3.565	2087	99.8,99.8
170	8.325	8.357	8.326	8.408	8.651	8.665	8.580	8.627	160-170	2.337	2089	100,100
180	8.721	8.751	8.741	8.776	8.729	8.747	8.765	8.747	170-180	0.8221	2090	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 1072.1 lm

%lum = 51.3%
%lamp = 51.3%

Conical surface Flux(120deg): 1585.5 lm

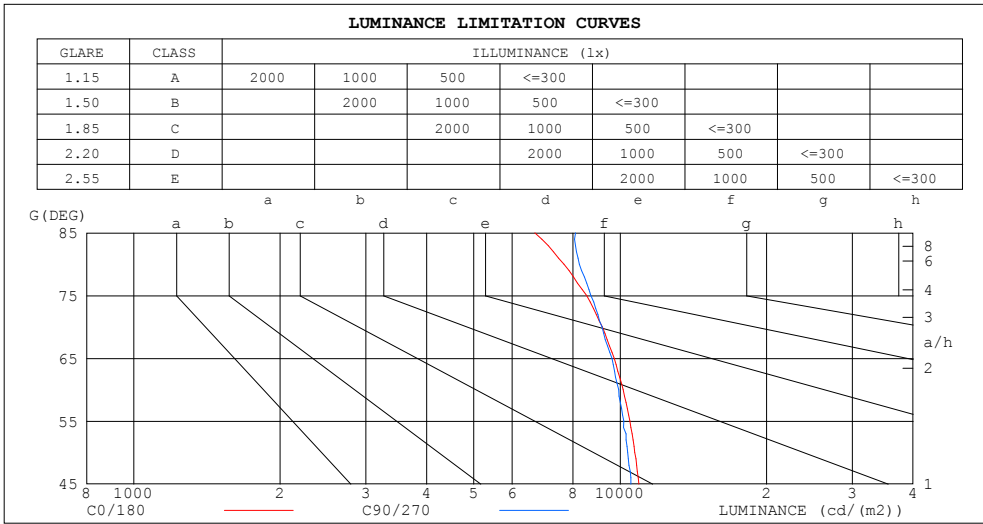
%lum = 75.9%
%lamp = 75.9%

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-03-25

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.750m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:278.7V I:0.1330A P:33.50W PF:0.8990 Freq:60.00Hz Lamp Flux:2090.23x1 lm		
NAME: SPL-24-34DOB-95C-277D-WH 整灯 2700K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:24寸	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	6676	8101
80	7665	8245
75	8535	8704
70	9188	9178
65	9722	9622
60	10141	9935
55	10471	10169
50	10719	10361
45	10931	10513

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2024-03-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:7.750m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:278.7V I:0.1330A P:33.50W PF:0.8990 Freq:60.00Hz Lamp Flux:2090.23x1 lm		
NAME: SPL-24-34DOB-95C-277D-WH 整灯 2700K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:24寸	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	.318	.181	.057	.310	.177	.056	.296	.170	.054	.282	.163	.052	.270	.157	.050	
2.0	.297	.163	.050	.290	.160	.049	.277	.154	.048	.265	.149	.047	.254	.144	.045	
3.0	.273	.145	.044	.267	.143	.043	.256	.139	.042	.245	.134	.041	.235	.130	.040	
4.0	.251	.131	.038	.246	.129	.038	.236	.125	.037	.226	.122	.037	.218	.118	.036	
5.0	.232	.118	.034	.227	.117	.034	.218	.114	.033	.210	.111	.033	.202	.108	.032	
6.0	.215	.108	.031	.211	.106	.031	.202	.104	.030	.195	.101	.030	.188	.099	.029	
7.0	.200	.099	.028	.196	.098	.028	.189	.095	.027	.182	.093	.027	.175	.091	.027	
8.0	.186	.091	.026	.183	.090	.025	.176	.088	.025	.170	.086	.025	.164	.084	.025	
9.0	.175	.084	.024	.171	.084	.023	.166	.082	.023	.160	.080	.023	.155	.079	.023	
10.0	.164	.079	.022	.161	.078	.022	.156	.076	.022	.151	.075	.021	.146	.073	.021	

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	.207	.207	.207	.177	.177	.177	.121	.121	.121	.069	.069	.069	.022	.022	.022	
1.0	.197	.173	.150	.169	.148	.129	.116	.102	.089	.067	.059	.052	.021	.019	.017	
2.0	.190	.149	.114	.162	.128	.099	.111	.088	.069	.064	.051	.040	.021	.017	.013	
3.0	.182	.131	.091	.156	.113	.079	.107	.079	.055	.062	.046	.032	.020	.015	.011	
4.0	.174	.118	.075	.150	.102	.065	.103	.071	.046	.059	.042	.027	.019	.014	.009	
5.0	.167	.108	.064	.143	.093	.056	.099	.065	.039	.057	.038	.023	.018	.012	.008	
6.0	.160	.099	.056	.137	.086	.049	.095	.060	.034	.055	.035	.020	.018	.012	.007	
7.0	.153	.092	.050	.131	.080	.044	.091	.056	.031	.053	.033	.018	.017	.011	.006	
8.0	.146	.087	.046	.126	.075	.040	.087	.053	.028	.051	.031	.017	.016	.010	.006	
9.0	.140	.082	.042	.121	.071	.037	.084	.050	.026	.049	.029	.016	.016	.010	.005	
10.0	.134	.077	.039	.116	.067	.034	.080	.047	.024	.047	.028	.015	.015	.009	.005	

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2024-03-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:7.750m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:278.7V I:0.1330A P:33.50W PF:0.8990 Freq:60.00Hz Lamp Flux:2090.23x1 lm										
NAME: SPL-24-34DOB-95C-277D-WH 整灯 2700K					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:		
MFR.: 革星					SUR.:24寸			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	18.2	19.7	18.5	19.9	20.2	18.1	19.6	18.4	19.8	20.1
3H	19.7	21.1	20.0	21.4	21.6	19.6	21.0	20.0	21.3	21.6
4H	20.3	21.6	20.6	21.9	22.2	20.3	21.6	20.6	21.9	22.2
6H	20.7	22.0	21.1	22.3	22.6	20.7	22.0	21.1	22.3	22.6
8H	20.9	22.1	21.2	22.4	22.7	20.9	22.1	21.3	22.5	22.8
12H	20.9	22.1	21.3	22.4	22.8	21.0	22.2	21.4	22.5	22.9
4H 2H	18.8	20.1	19.1	20.4	20.7	18.7	20.0	19.0	20.3	20.6
3H	20.5	21.6	20.8	22.0	22.3	20.4	21.6	20.8	21.9	22.3
4H	21.2	22.2	21.6	22.6	23.0	21.2	22.2	21.6	22.6	23.0
6H	21.7	22.7	22.2	23.1	23.5	21.8	22.7	22.2	23.1	23.5
8H	21.9	22.8	22.4	23.2	23.7	22.0	22.9	22.5	23.3	23.8
12H	22.1	22.9	22.5	23.3	23.8	22.2	23.0	22.7	23.4	23.9
8H 4H	21.5	22.3	21.9	22.7	23.2	21.4	22.3	21.9	22.7	23.2
6H	22.2	22.9	22.6	23.3	23.8	22.2	23.0	22.7	23.4	23.9
8H	22.5	23.1	22.9	23.6	24.1	22.6	23.2	23.0	23.7	24.2
12H	22.7	23.2	23.2	23.7	24.2	22.8	23.4	23.3	23.9	24.4
12H 4H	21.5	22.3	21.9	22.7	23.1	21.5	22.3	21.9	22.7	23.1
6H	22.2	22.9	22.7	23.3	23.8	22.3	22.9	22.8	23.4	23.9
8H	22.6	23.1	23.1	23.6	24.1	22.7	23.2	23.2	23.7	24.2
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.1 / - 0.3				

CIE Pub.117, 2090 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 2.6)

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2024-03-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:7.750m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:278.7V I:0.1330A P:33.50W PF:0.8990 Freq:60.00Hz Lamp Flux:2090.23x1 lm		
NAME: SPL-24-34DOB-95C-277D-WH 整灯 2700K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:24寸	Shielding Angle:

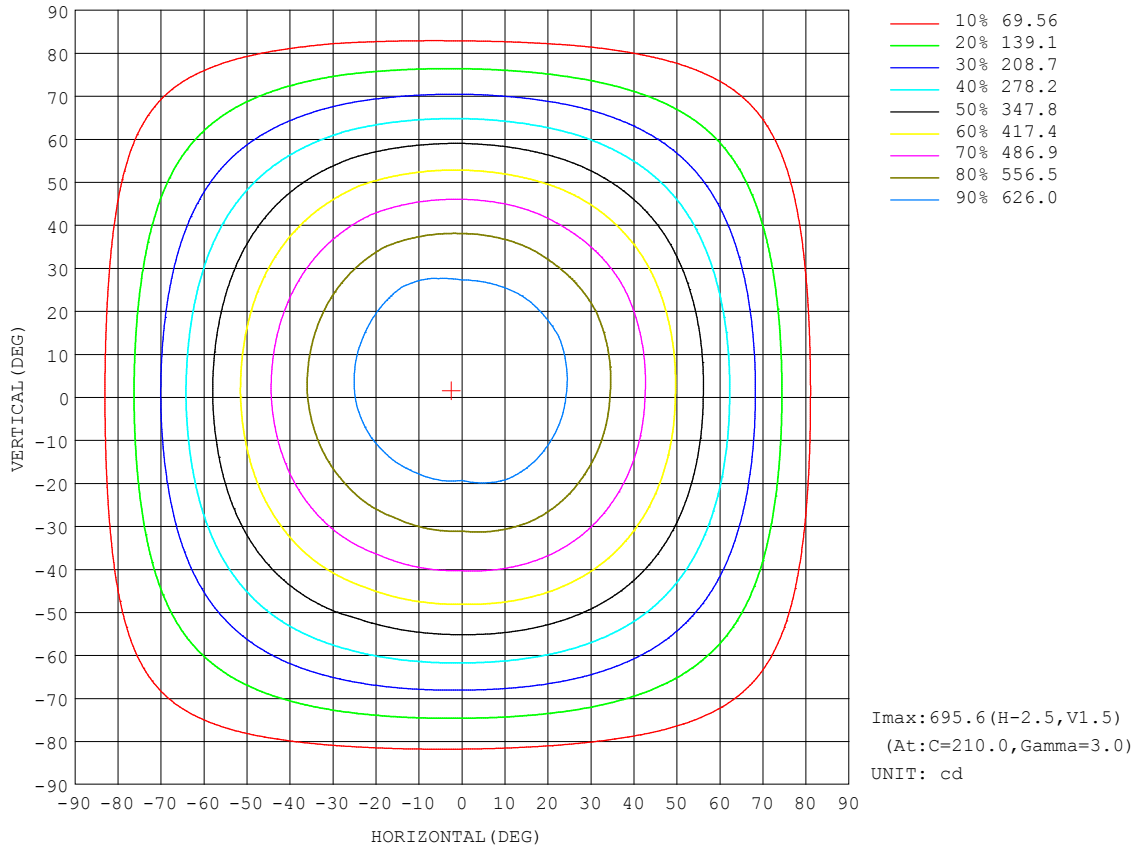
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	56	45	37	55	44	37	54	44	37	31
0.80	66	54	47	65	54	47	63	53	46	39
1.00	75	63	56	73	63	56	71	64	55	47
1.25	82	71	64	80	70	63	77	69	62	55
1.50	87	77	69	85	76	69	82	74	68	60
2.00	94	85	78	92	84	77	88	81	76	67
2.50	98	90	83	95	88	82	91	85	80	71
3.00	101	94	88	99	92	87	94	89	85	75
4.00	105	99	94	103	97	93	98	94	90	80
5.00	108	103	98	105	100	97	100	96	93	83
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2024-03-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:7.750m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:278.7V I:0.1330A P:33.50W PF:0.8990 Freq:60.00Hz Lamp Flux:2090.23x1 lm		
NAME: SPL-24-34DOB-95C-277D-WH 整灯 2700K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:24寸	Shielding Angle:

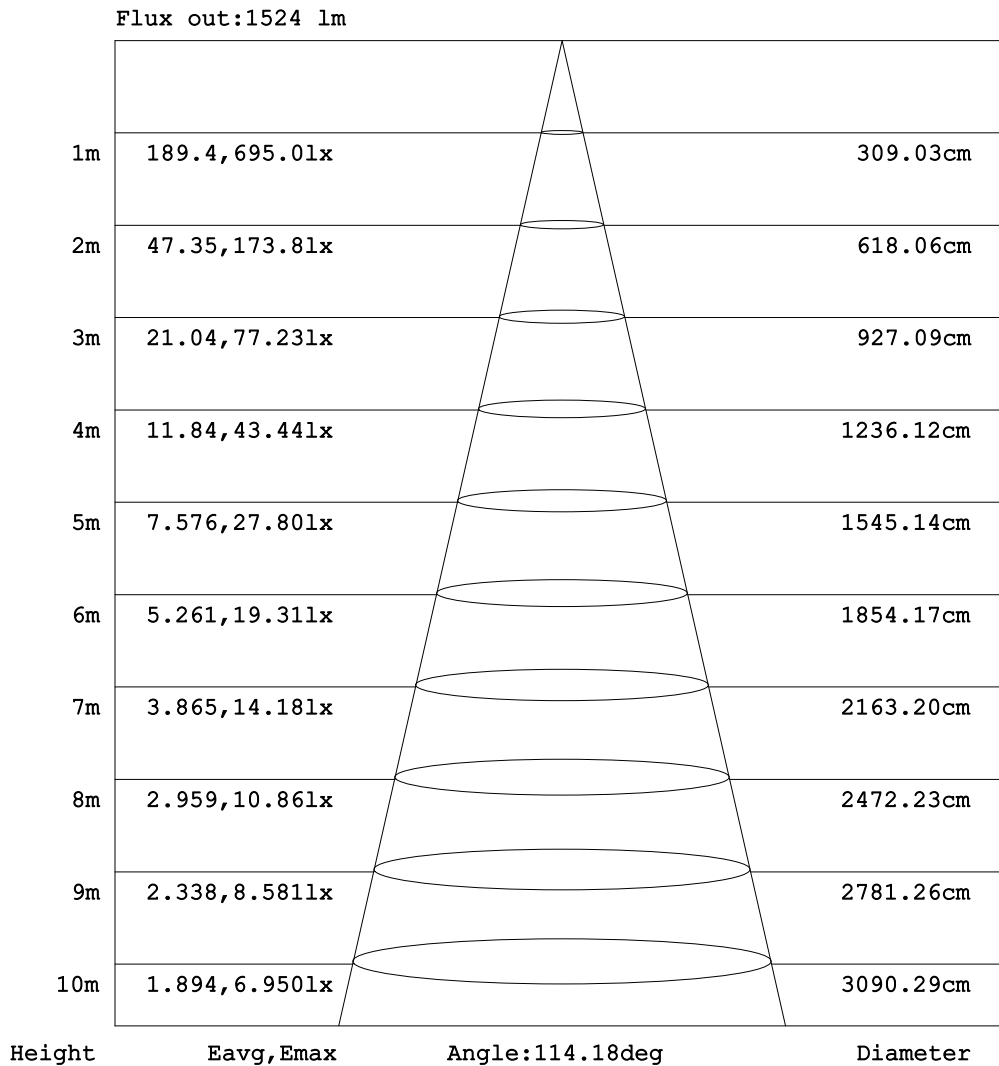


C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2024-03-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity: 65.0%
 Test Distance: 7.750m [K=1.0000]
 Remarks:

AAI Figure

Test:U:278.7V I:0.1330A P:33.50W PF:0.8990 Freq:60.00Hz Lamp Flux:2090.23x1 lm		
NAME: SPL-24-34DOB-95C-277D-WH 整灯 2700K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:24寸	Shielding Angle:

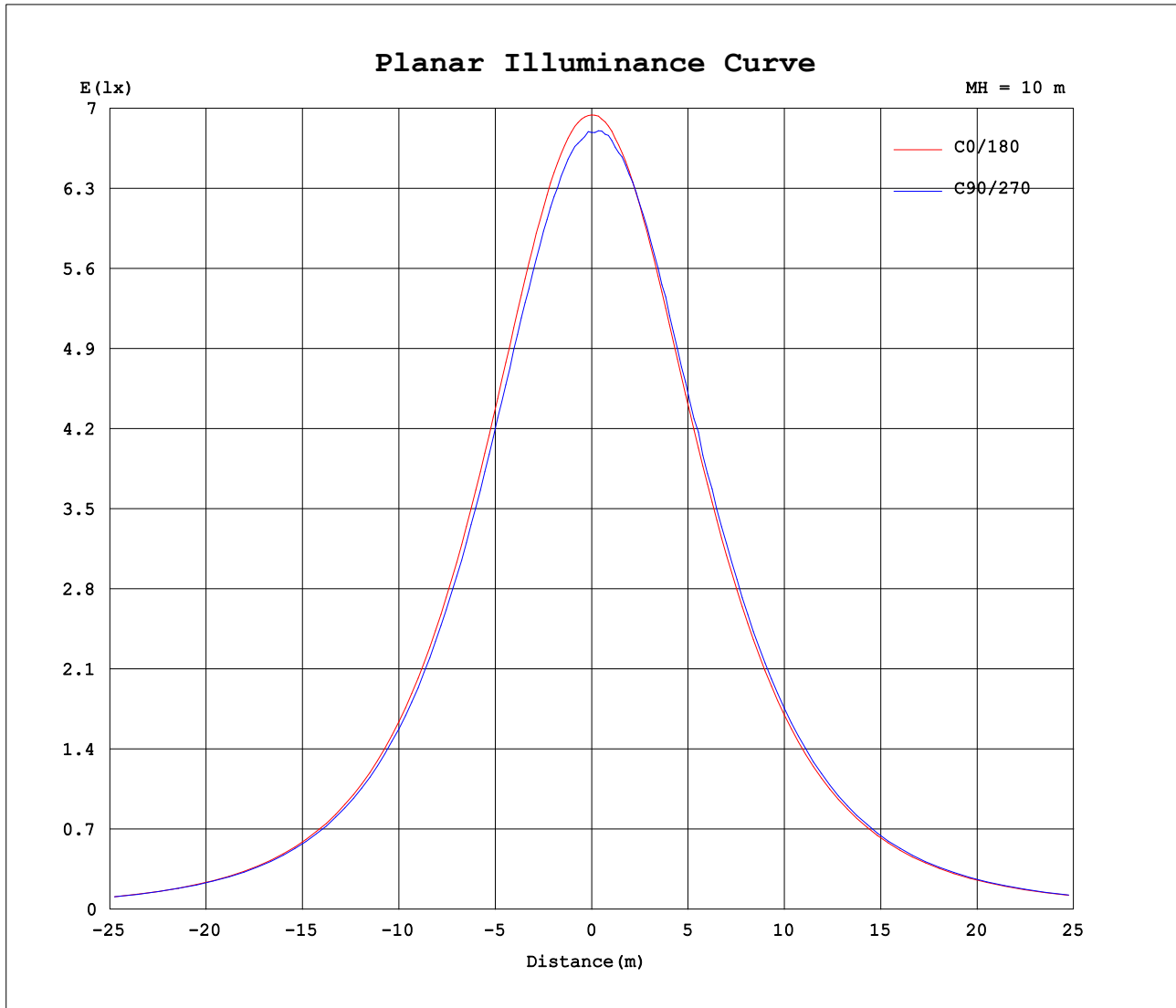


Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2024-03-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity: 65.0%
 Test Distance: 7.750m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2024-03-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:7.750m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:278.7V I:0.1330A P:33.50W PF:0.8990 Freq:60.00Hz Lamp Flux:2090.23x1 lm		
NAME: SPL-24-34DOB-95C-277D-WH 整灯 2700K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:24寸	Shielding Angle:

Table--1

UNIT: cd

C (DEG) \ γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330							
0	694	694	693	679	685	692	694	694	693	679	685	692							
5	692	690	686	674	673	687	692	694	695	684	687	692							
10	683	679	675	660	662	676	684	689	691	681	682	686							
15	668	662	657	644	648	660	670	677	683	674	677	675							
20	647	640	635	623	629	638	650	659	668	658	659	657							
25	621	612	608	596	604	612	625	635	647	637	638	633							
30	589	580	575	564	569	580	597	607	619	611	608	604							
35	552	544	539	530	535	547	563	574	586	582	576	568							
40	510	502	498	489	494	507	525	535	546	540	535	527							
45	464	457	453	446	448	465	481	491	501	497	488	481							
50	413	408	405	400	403	416	433	441	452	447	443	430							
55	360	356	353	350	351	366	381	388	398	395	387	376							
60	304	301	299	298	301	313	325	332	340	335	331	318							
65	247	245	244	244	247	257	269	273	280	276	270	259							
70	189	186	188	188	193	200	209	213	217	214	209	199							
75	133	132	134	135	140	145	153	155	158	155	148	142							
80	79.9	81.4	83.5	85.9	89.2	93.7	99.8	99.3	103	98.6	94.6	87.4							
85	34.9	37.6	39.9	42.4	44.9	48.2	51.2	51.6	52.4	49.2	45.9	41.2							
90	8.55	8.48	8.52	8.44	9.50	12.4	14.8	13.5	11.2	10.4	10.4	10.3							
95	7.55	7.54	7.54	7.36	7.53	7.74	9.05	9.12	9.19	8.90	8.95	8.95							
100	6.98	6.97	6.98	6.82	6.93	7.09	8.18	8.20	8.26	7.99	8.08	8.11							
105	6.49	6.49	6.48	6.38	6.47	6.64	7.59	7.59	7.60	7.34	7.43	7.54							
110	6.08	6.09	6.11	6.04	6.09	6.25	7.27	7.24	7.20	7.05	7.09	7.23							
115	5.77	5.79	5.85	5.79	5.85	5.96	7.12	7.08	7.03	6.88	6.91	7.06							
120	5.63	5.69	5.76	5.68	5.70	5.82	7.08	7.02	6.98	6.87	6.91	7.04							
125	5.65	5.72	5.78	5.72	5.76	5.84	7.10	7.05	7.02	6.90	6.94	7.09							
130	5.79	5.85	5.92	5.83	5.87	5.98	7.18	7.15	7.10	6.99	7.04	7.19							
135	6.01	6.06	6.14	6.06	6.09	6.19	7.32	7.28	7.24	7.11	7.17	7.33							
140	6.28	6.33	6.40	6.31	6.38	6.47	7.48	7.46	7.43	7.31	7.37	7.51							
145	6.59	6.63	6.70	6.60	6.72	6.78	7.69	7.68	7.65	7.50	7.54	7.73							
150	6.94	6.98	7.02	6.94	7.05	7.12	7.92	7.89	7.87	7.69	7.72	7.95							
155	7.31	7.33	7.38	7.30	7.45	7.48	8.13	8.11	8.10	7.94	7.91	8.18							
160	7.69	7.70	7.74	7.67	7.78	7.84	8.34	8.33	8.33	8.20	8.19	8.39							
165	8.03	8.04	8.07	8.01	8.15	8.17	8.52	8.49	8.55	8.38	8.37	8.58							
170	8.33	8.34	8.38	8.33	8.37	8.44	8.65	8.63	8.70	8.58	8.53	8.72							
175	8.56	8.57	8.62	8.60	8.63	8.66	8.72	8.71	8.78	8.69	8.67	8.81							
180	8.72	8.72	8.78	8.74	8.74	8.81	8.73	8.72	8.78	8.76	8.68	8.82							

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2024-03-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:7.750m [K=1.0000]
 Remarks: