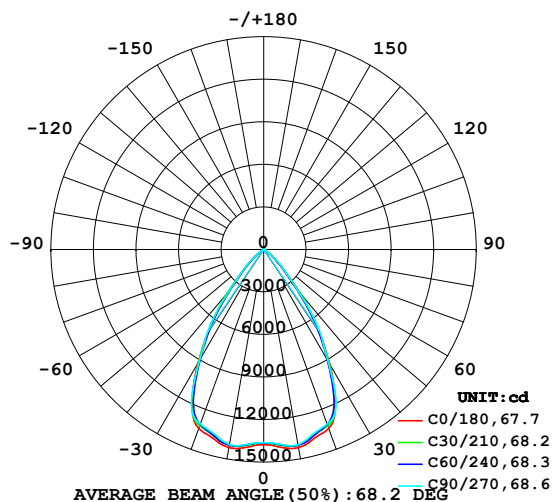


LUMINAIRE PHOTOMETRIC TEST REPORT

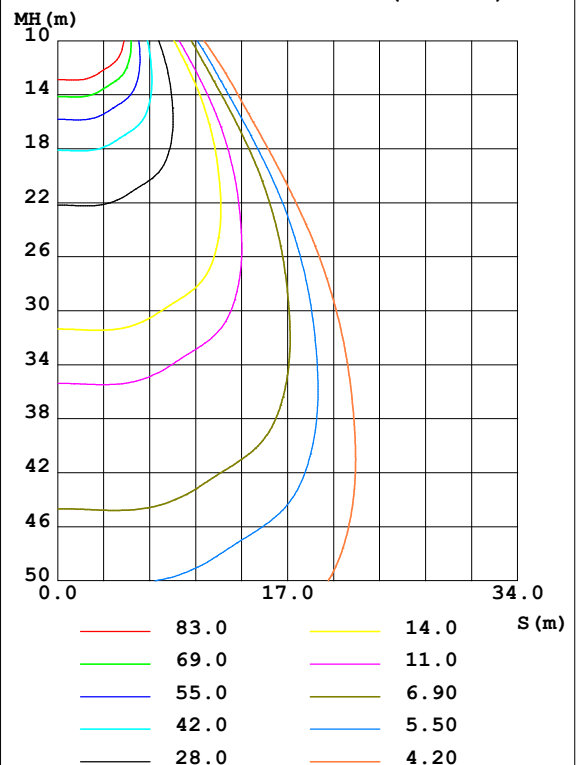
Test:U:230.4V I:0.4538A P:101.3W PF:0.9692 Freq:49.99Hz Lamp Flux:16609.3x1 lm		
NAME: H29APC-10-R280-70-50H-2523030R7	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ERVAN	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 163.90 lm/W			
MODEL		I _{max} (cd)	14196	S/MH (C0/180)	1.00
NOMINAL POWER(W)	100	LOR(%)	100.0	S/MH (C90/270)	1.01
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	16609	η UP,DN(C0-180)	0.5,49.5
NOMINAL FLUX(lm)	16609.3	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.5,49.5
LAMPS INSIDE	1	η up (%)	1.0	CIBSE SHR NOM	1.00
TEST VOLTAGE(V)	230	η down (%)	99.0	CIBSE SHR MAX	1.05

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QC
Test Date:2020-07-06

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:53.0%
Test Distance:10.380m [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	1419	1400	1397	1400	1419	1400	1397	1400	0- 10	1330	1330	8.01,8.01
20	1343	1325	1310	1325	1343	1325	1310	1325	10- 20	3851	5181	31.2,31.2
30	929.8	923.7	909.9	923.7	929.8	923.7	909.9	923.7	20- 30	5336	10517	63.3,63.3
40	355.4	360.2	371.7	360.2	355.4	360.2	371.7	360.2	30- 40	3972	14489	87.2,87.2
50	87.76	93.09	96.52	93.09	87.76	93.09	96.52	93.09	40- 50	1537	16027	96.5,96.5
60	11.33	11.03	11.41	11.03	11.33	11.03	11.41	11.03	50- 60	338.0	16365	98.5,98.5
70	2.950	2.910	2.918	2.910	2.950	2.910	2.918	2.910	60- 70	56.82	16422	98.9,98.9
80	0.7741	0.7815	0.8088	0.7815	0.7741	0.7815	0.8088	0.7815	70- 80	18.78	16440	99,99
90	0.0717	0.0721	0.0711	0.0721	0.0717	0.0721	0.0711	0.0721	80- 90	2.462	16443	99,99
100	0.2437	0.2476	0.2479	0.2476	0.2437	0.2476	0.2479	0.2476	90-100	1.549	16444	99,99
110	0.7884	0.7716	0.7584	0.7716	0.7884	0.7716	0.7584	0.7716	100-110	5.052	16449	99,99
120	1.740	1.708	1.692	1.708	1.740	1.708	1.692	1.708	110-120	11.94	16461	99.1,99.1
130	3.026	2.987	2.974	2.987	3.026	2.987	2.974	2.987	120-130	20.65	16482	99.2,99.2
140	4.626	4.594	4.579	4.594	4.626	4.594	4.579	4.594	130-140	29.07	16511	99.4,99.4
150	6.289	6.257	6.255	6.257	6.289	6.257	6.255	6.257	140-150	33.93	16545	99.6,99.6
160	7.707	7.676	7.679	7.676	7.707	7.676	7.679	7.676	150-160	32.06	16577	99.8,99.8
170	8.964	8.920	8.926	8.920	8.964	8.920	8.926	8.920	160-170	23.42	16601	99.9,99.9
180	9.647	9.571	9.582	9.571	9.647	9.571	9.582	9.571	170-180	8.792	16609	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

Conical surface Flux(90deg): 15474 lm

%lum = 93.2%

%lamp = 93.2%

Conical surface Flux(120deg): 16365 lm

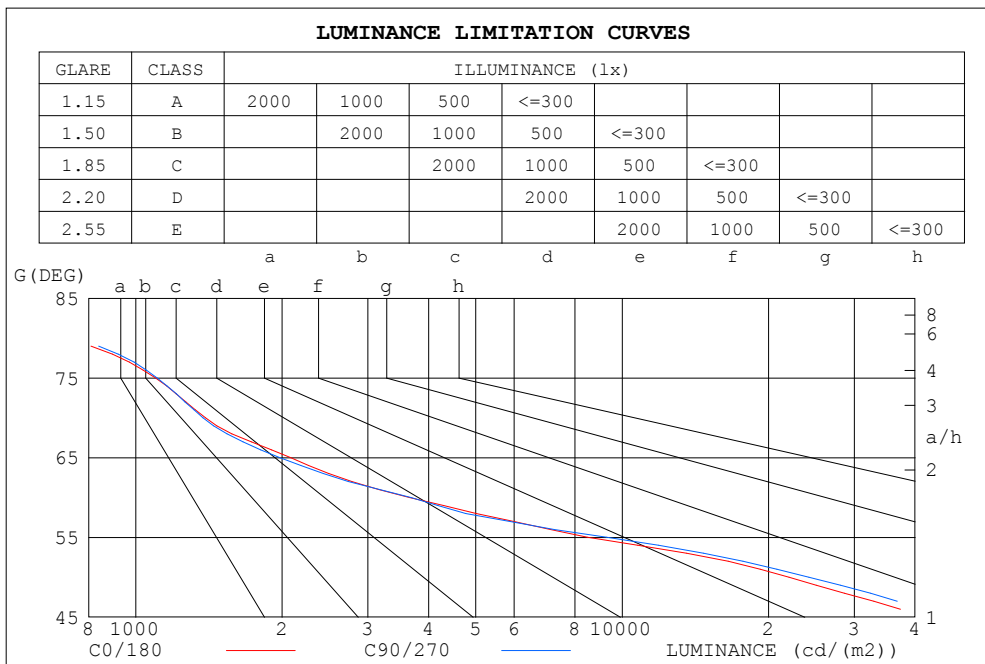
%lum = 98.5%

%lamp = 98.5%

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:QC
 Test Date:2020-07-06

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity:53.0%
 Test Distance:10.380m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES



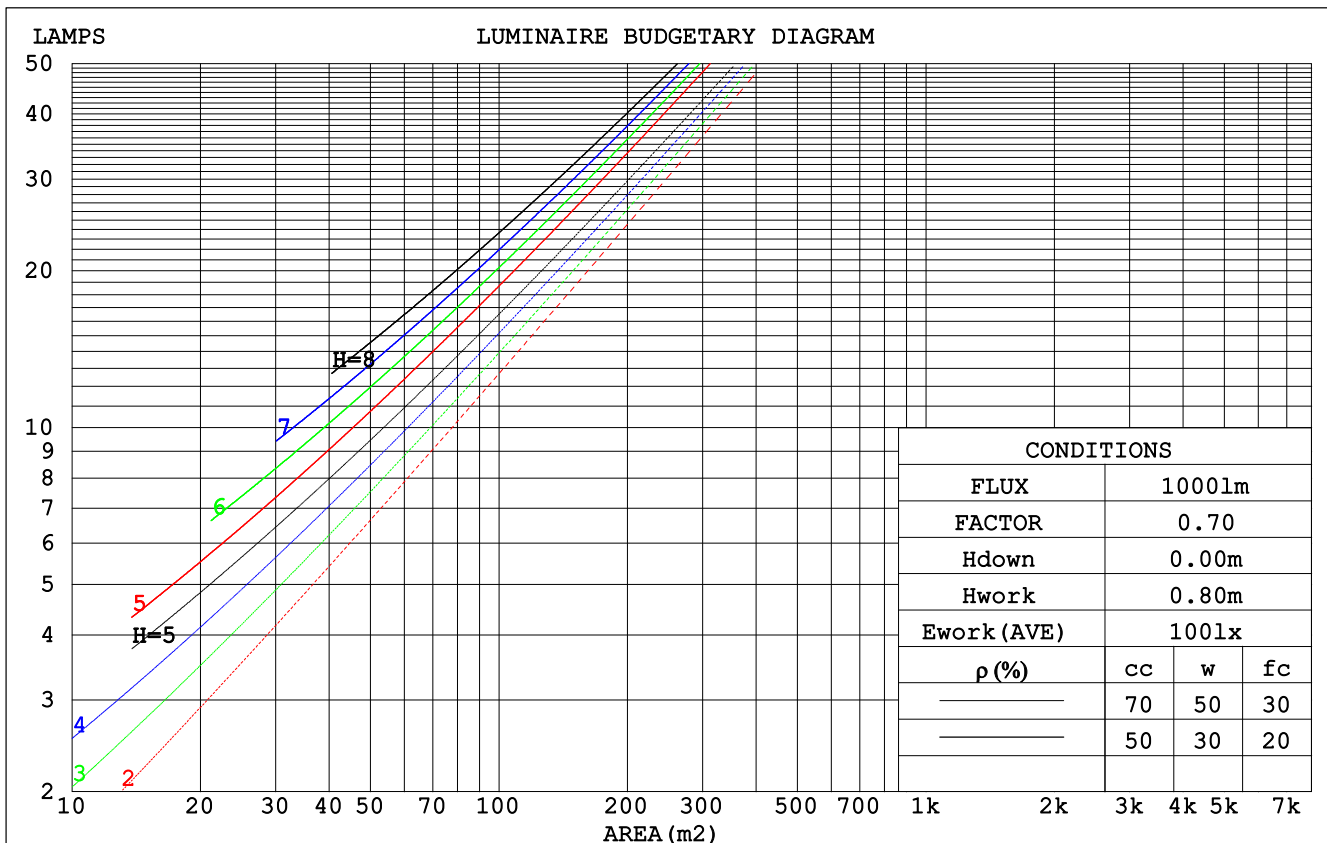
LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	155	160
80	719	751
75	1097	1105
70	1391	1376
65	2079	1976
60	3655	3682
55	8477	9297
50	22021	24219
45	41856	45704

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: QC
Test Date: 2020-07-06

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity: 53.0%
Test Distance: 10.380m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

pcc	80%			70%			50%			30%			10%			0
p _w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
p _{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.01	1.01	1.01	.99
1.0	1.10	1.07	1.05	1.08	1.05	1.03	1.04	1.02	.00	.00	.98	.97	.96	.95	.94	.92
2.0	1.02	.97	.94	.00	.96	.93	.97	.93	.91	.93	.91	.88	.90	.88	.86	.85
3.0	.94	.89	.85	.93	.88	.84	.90	.86	.83	.87	.84	.81	.85	.82	.80	.78
4.0	.87	.82	.77	.86	.81	.77	.84	.79	.76	.82	.78	.75	.80	.76	.74	.72
5.0	.81	.75	.71	.80	.74	.70	.78	.73	.69	.77	.72	.69	.75	.71	.68	.66
6.0	.76	.69	.65	.75	.69	.65	.73	.68	.64	.72	.67	.63	.70	.66	.63	.61
7.0	.71	.64	.60	.70	.64	.60	.69	.63	.59	.67	.62	.59	.66	.62	.58	.57
8.0	.66	.60	.55	.66	.60	.55	.64	.59	.55	.63	.58	.55	.62	.58	.54	.53
9.0	.62	.56	.52	.62	.56	.51	.60	.55	.51	.59	.55	.51	.59	.54	.51	.49
10.0	.58	.52	.48	.58	.52	.48	.57	.52	.48	.56	.51	.48	.55	.51	.47	.46



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: QC
 Test Date: 2020-07-06

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity: 53.0%
 Test Distance: 10.380m [K=1.0000]
 Remarks:

WEC AND CCEC

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	.187	.107	.034	.180	.103	.033	.167	.096	.031	.155	.089	.029	.144	.083	.027	
2.0	.181	.099	.030	.175	.096	.030	.164	.091	.028	.153	.086	.027	.144	.081	.026	
3.0	.173	.092	.028	.168	.090	.027	.158	.086	.026	.149	.082	.025	.141	.078	.024	
4.0	.165	.086	.025	.161	.084	.025	.152	.081	.024	.145	.078	.023	.137	.075	.023	
5.0	.158	.080	.023	.154	.079	.023	.147	.076	.022	.140	.074	.022	.133	.071	.021	
6.0	.151	.076	.022	.147	.074	.021	.141	.072	.021	.135	.070	.021	.129	.068	.020	
7.0	.144	.071	.020	.141	.070	.020	.135	.068	.020	.130	.066	.019	.125	.065	.019	
8.0	.138	.067	.019	.135	.067	.019	.130	.065	.019	.125	.063	.018	.120	.062	.018	
9.0	.132	.064	.018	.130	.063	.018	.125	.062	.017	.120	.060	.017	.116	.059	.017	
10.0	.127	.061	.017	.124	.060	.017	.120	.059	.017	.116	.058	.016	.112	.056	.016	

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	.198	.198	.198	.169	.169	.169	.116	.116	.116	.066	.066	.066	.021	.021	.021	
1.0	.180	.165	.152	.154	.142	.131	.105	.097	.090	.060	.056	.053	.019	.018	.017	
2.0	.165	.140	.119	.141	.121	.103	.097	.083	.072	.056	.049	.042	.018	.016	.014	
3.0	.154	.121	.096	.132	.105	.083	.090	.073	.058	.052	.043	.034	.017	.014	.011	
4.0	.144	.107	.079	.124	.092	.068	.085	.064	.048	.049	.038	.028	.016	.012	.009	
5.0	.136	.096	.066	.117	.083	.057	.080	.058	.040	.047	.034	.024	.015	.011	.008	
6.0	.129	.086	.056	.111	.075	.049	.076	.052	.035	.044	.031	.021	.014	.010	.007	
7.0	.123	.079	.049	.106	.069	.042	.073	.048	.030	.042	.028	.018	.014	.009	.006	
8.0	.117	.073	.043	.101	.063	.037	.070	.044	.026	.041	.026	.016	.013	.009	.005	
9.0	.112	.068	.038	.097	.059	.033	.067	.041	.024	.039	.024	.014	.013	.008	.005	
10.0	.108	.064	.034	.093	.055	.030	.064	.039	.021	.038	.023	.013	.012	.008	.004	

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QC
Test Date:2020-07-06

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:53.0%
Test Distance:10.380m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

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		11.8	12.8	12.0	13.0	13.2	11.7	12.8	12.0	12.9	13.1	
	3H	11.6	12.5	11.9	12.8	13.0	11.6	12.5	11.8	12.7	12.9	
	4H	11.5	12.4	11.8	12.6	12.9	11.5	12.4	11.8	12.6	12.8	
	6H	11.4	12.2	11.7	12.5	12.8	11.4	12.2	11.7	12.5	12.7	
	8H	11.4	12.2	11.7	12.4	12.7	11.3	12.1	11.7	12.4	12.7	
	12H	11.3	12.1	11.7	12.4	12.7	11.3	12.0	11.6	12.3	12.6	
	4H	2H	11.5	12.4	11.8	12.6	12.9	11.5	12.4	11.8	12.6	12.8
		3H	11.3	12.1	11.7	12.4	12.7	11.3	12.1	11.6	12.3	12.6
		4H	11.3	11.9	11.6	12.3	12.6	11.2	11.9	11.6	12.2	12.5
		6H	11.2	11.8	11.6	12.1	12.5	11.1	11.7	11.5	12.1	12.4
		8H	11.1	11.7	11.5	12.0	12.4	11.1	11.6	11.5	12.0	12.4
		12H	11.1	11.6	11.5	12.0	12.4	11.0	11.5	11.4	11.9	12.3
	8H	4H	11.1	11.7	11.5	12.0	12.4	11.1	11.6	11.5	12.0	12.4
		6H	11.0	11.5	11.5	11.9	12.3	11.0	11.4	11.4	11.8	12.3
		8H	11.0	11.4	11.4	11.8	12.3	10.9	11.3	11.4	11.7	12.2
		12H	10.9	11.2	11.4	11.7	12.2	10.9	11.2	11.3	11.7	12.2
	12H	4H	11.1	11.6	11.5	12.0	12.4	11.0	11.5	11.4	11.9	12.3
		6H	11.0	11.4	11.4	11.8	12.3	10.9	11.3	11.4	11.7	12.2
		8H	10.9	11.2	11.4	11.7	12.2	10.9	11.2	11.3	11.7	12.2
Variations with the observer position at spacings:												
S = 1.0H		+ 2.8 / -12.2					+ 3.2 / -11.9					
1.5H		+ 4.5 / - 9.4					+ 4.8 / - 9.4					
2.0H		+ 6.1 / -10.9					+ 6.4 / -11.0					

CIE Pub.117, 16609 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 9.8)

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QC
Test Date:2020-07-06

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:53.0%
Test Distance:10.380m [K=1.0000]
Remarks:

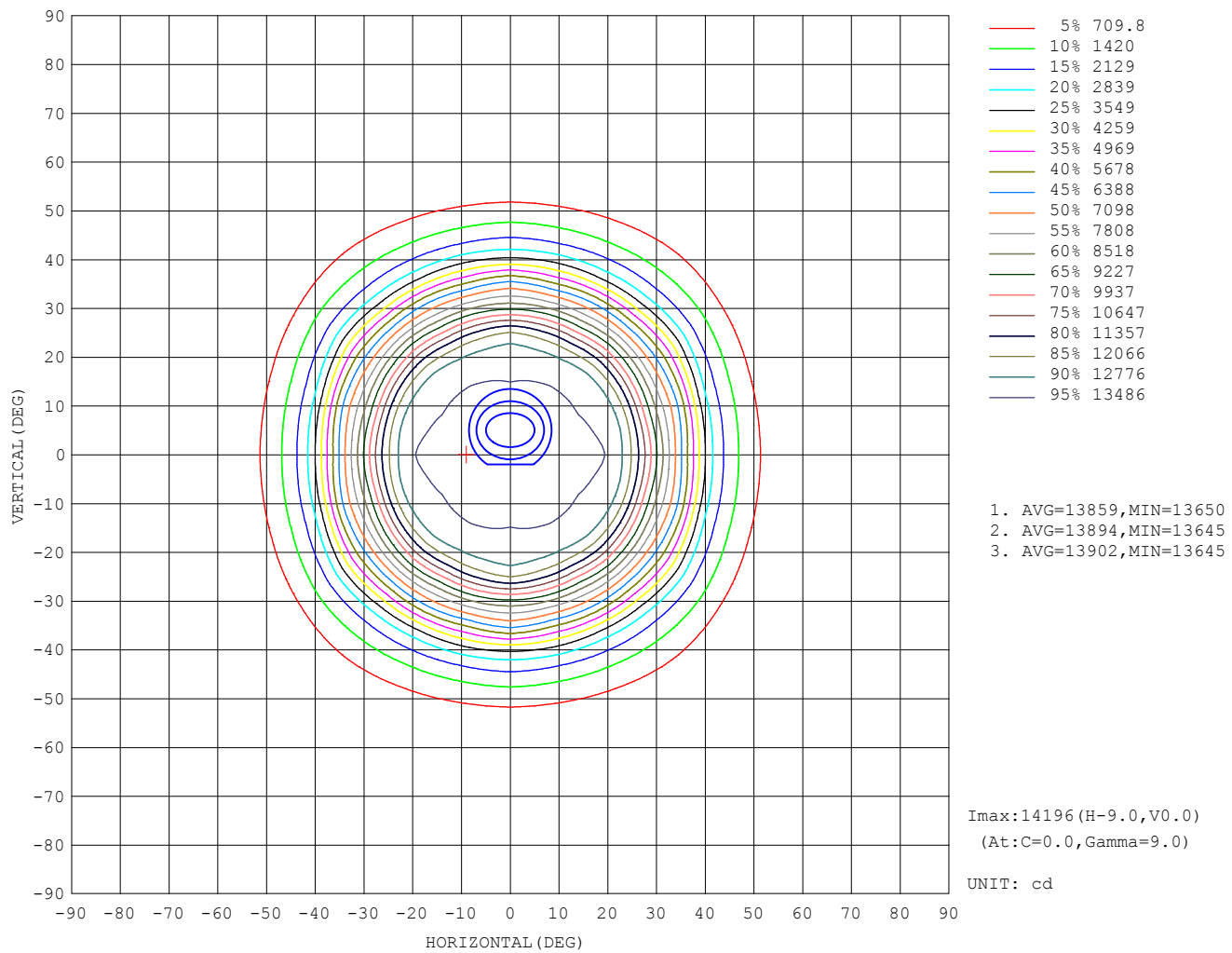
UTILIZATION FACTORS TABLE

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) $k(RI) \times RCR = 5$									
$k = 0.60$	83	76	72	83	76	72	82	76	72	68
0.80	92	85	81	91	85	81	89	84	80	76
1.00	97	91	87	96	90	86	94	90	86	81
1.25	101	96	92	100	95	91	98	94	91	86
1.50	104	99	95	103	98	95	100	97	94	89
2.00	107	103	100	106	102	99	103	100	97	91
2.50	109	105	102	107	104	101	104	101	99	93
3.00	111	107	104	109	106	103	105	103	101	94
4.00	113	110	108	111	108	106	107	105	103	96
5.00	114	112	110	112	110	108	108	106	105	97
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: QC
 Test Date: 2020-07-06

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity: 53.0%
 Test Distance: 10.380m [K=1.0000]
 Remarks:

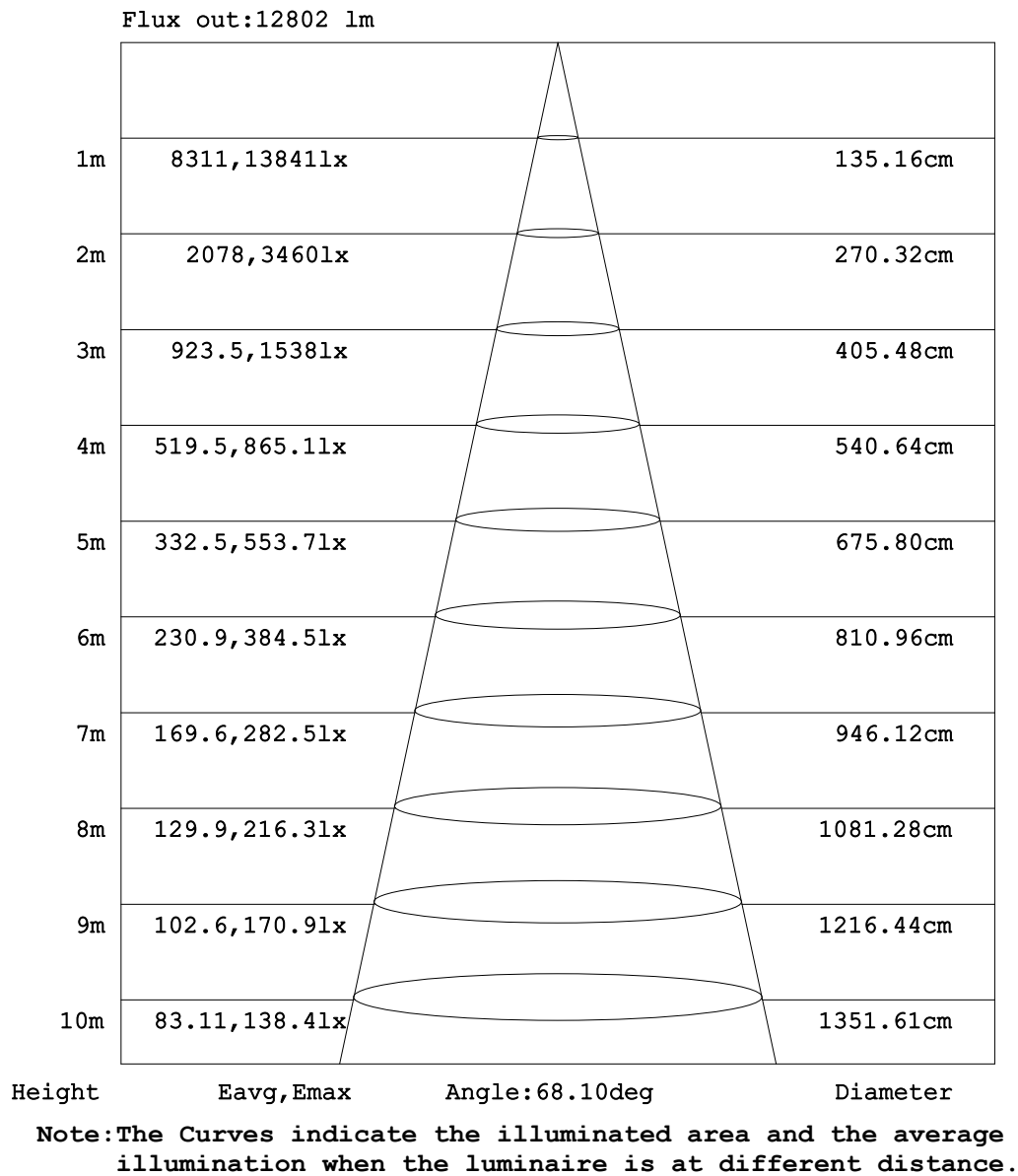
ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: QC
Test Date: 2020-07-06

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity: 53.0%
Test Distance: 10.380m [K=1.0000]
Remarks:

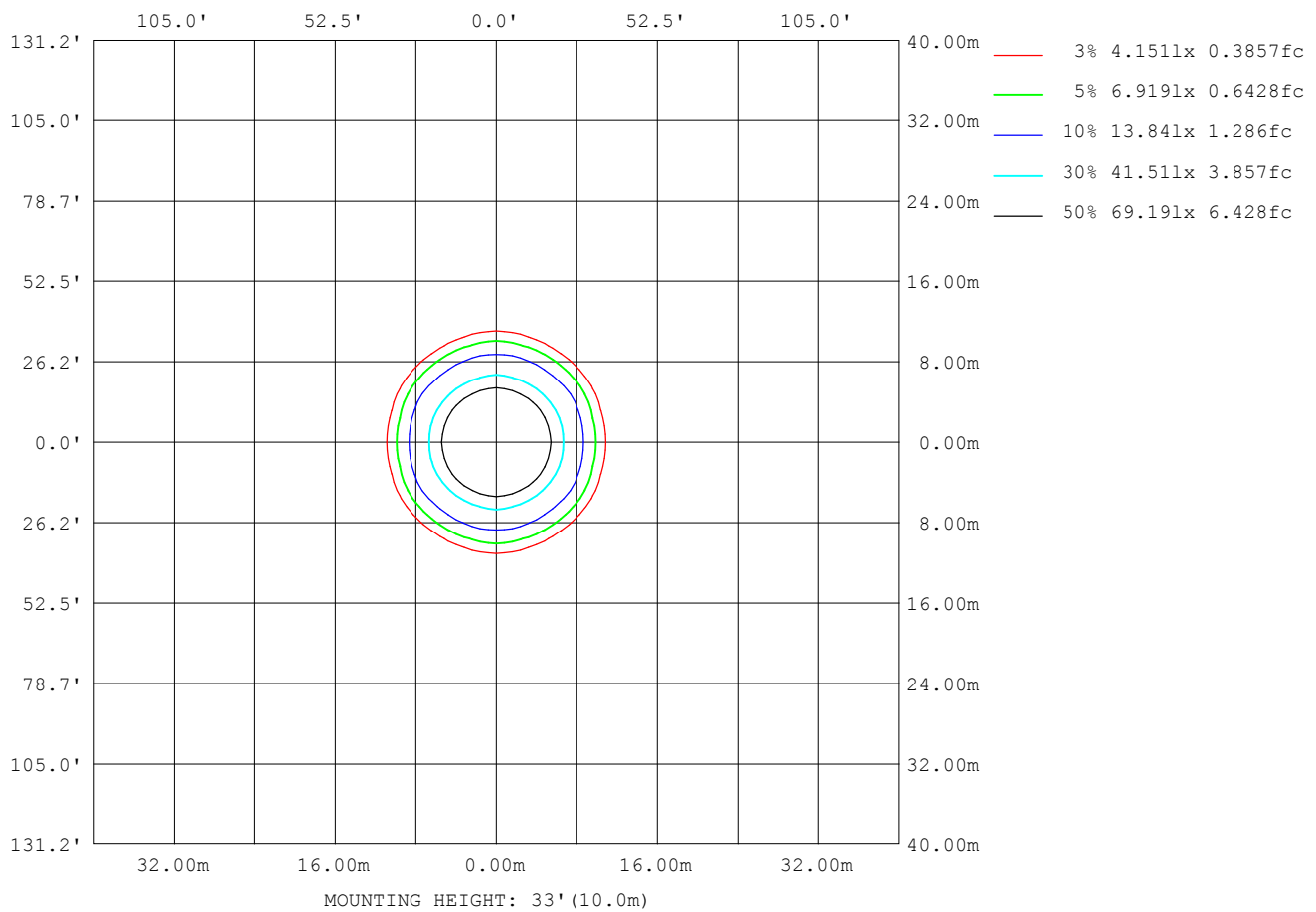
AAI Figure



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: QC
 Test Date: 2020-07-06

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity: 53.0%
 Test Distance: 10.380m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: QC
Test Date: 2020-07-06

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity: 53.0%
Test Distance: 10.380m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:230.4V I:0.4538A P:101.3W PF:0.9692 Freq:49.99Hz Lamp Flux:16609.3x1 lm		
NAME: H29APC-10-R280-70-50H-2523030R7	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ERVAN	SUR.:	Shielding Angle:

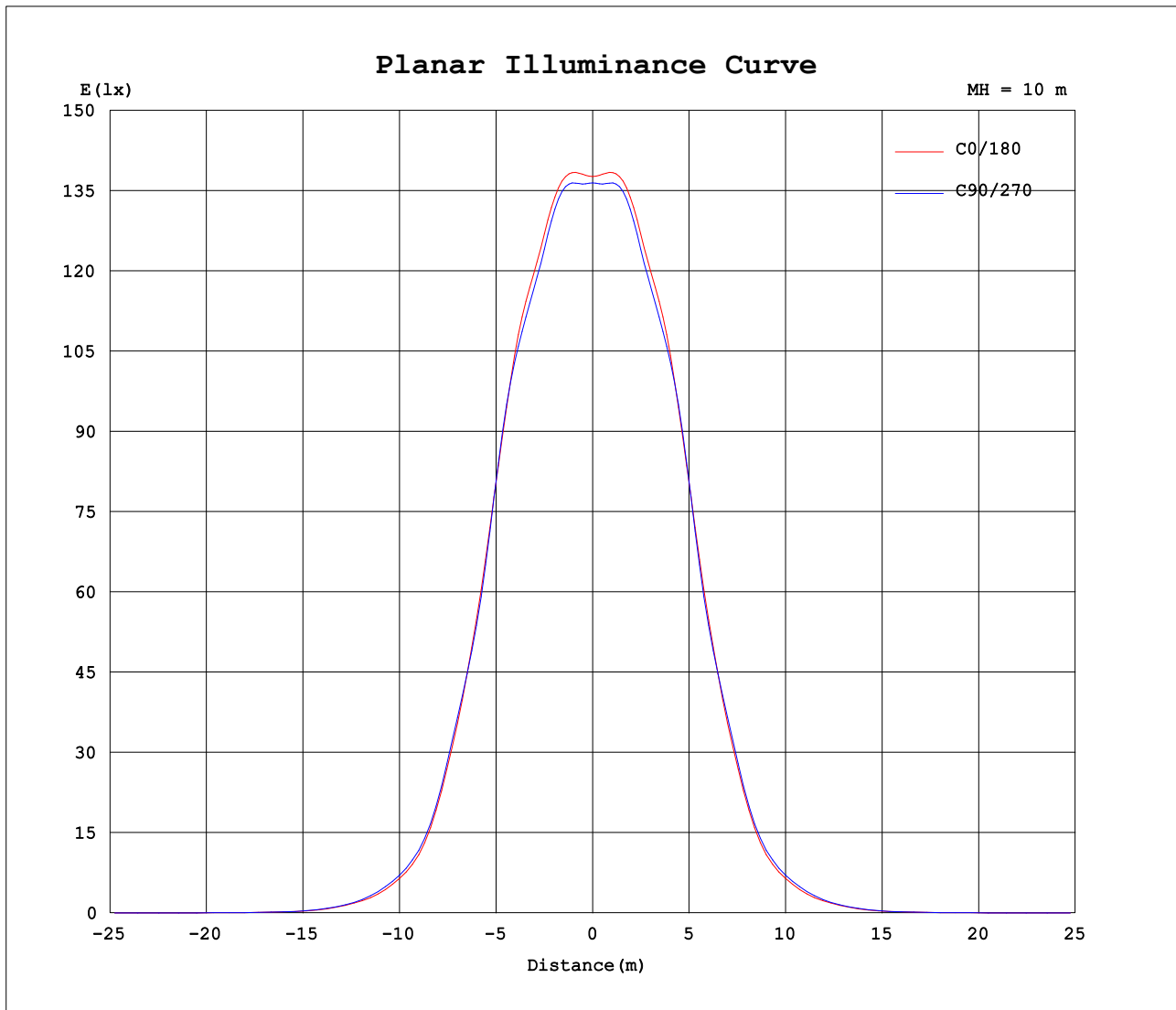
AvgL	cd/m2
L_0~180 (65) av	2079
L_0~180 (75) av	1097
L_0~180 (85) av	155
L_90~270 (65) av	1976
L_90~270 (75) av	1105
L_90~270 (85) av	160
L_45 (65) av	2015
L_45 (75) av	1095
L_45 (85) av	149

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QC
Test Date:2020-07-06

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:53.0%
Test Distance:10.380m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: QC
Test Date: 2020-07-06

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity: 53.0%
Test Distance: 10.380m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Table--1

UNIT: ×10cd

C (DEG) γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	1377	1367	1366	1366	1365	1365	1364	1365	1365	1366	1366	1367	1377	1367	1366	1366	1365	1365	1364
5	1400	1389	1387	1385	1382	1380	1380	1380	1382	1385	1387	1389	1400	1389	1387	1385	1382	1380	1380
10	1419	1407	1402	1400	1402	1400	1397	1400	1402	1400	1402	1407	1419	1407	1402	1400	1402	1400	1397
15	1379	1369	1359	1359	1361	1355	1347	1355	1361	1359	1359	1369	1379	1369	1359	1359	1361	1355	1347
20	1343	1333	1324	1325	1313	1309	1310	1309	1313	1325	1324	1333	1343	1333	1324	1325	1313	1309	1310
25	1198	1202	1203	1197	1175	1186	1209	1186	1175	1197	1203	1202	1198	1202	1203	1197	1175	1186	1209
30	930	910	920	924	896	905	910	905	896	924	920	910	930	910	920	924	896	905	910
35	644	671	658	637	637	630	665	630	637	637	658	671	644	671	658	637	637	630	665
40	355	365	398	360	355	366	372	366	355	360	398	365	355	365	398	360	355	366	372
45	183	185	198	190	190	192	200	192	190	190	198	185	183	185	198	190	190	192	200
50	87.8	86.2	89.6	93.1	90.7	93.2	96.5	93.2	90.7	93.1	89.6	86.2	87.8	86.2	89.6	93.1	90.7	93.2	96.5
55	30.1	28.5	31.0	29.9	31.2	29.8	33.1	29.8	31.2	29.9	31.0	28.5	30.1	28.5	31.0	29.9	31.2	29.8	33.1
60	11.3	10.7	10.8	11.0	11.4	10.9	11.4	10.9	11.4	11.0	10.8	10.7	11.3	10.7	10.8	11.0	11.4	10.9	11.4
65	5.45	5.20	5.13	5.28	5.42	5.20	5.18	5.20	5.42	5.28	5.13	5.20	5.45	5.20	5.13	5.28	5.42	5.20	5.18
70	2.95	2.88	2.89	2.91	2.94	2.90	2.92	2.90	2.94	2.91	2.89	2.88	2.95	2.88	2.89	2.91	2.94	2.90	2.92
75	1.76	1.73	1.73	1.76	1.77	1.77	1.77	1.77	1.77	1.76	1.73	1.73	1.76	1.73	1.73	1.76	1.77	1.77	1.77
80	0.77	0.77	0.78	0.78	0.79	0.81	0.81	0.81	0.79	0.78	0.78	0.77	0.77	0.77	0.78	0.78	0.79	0.81	0.81
85	0.08	0.08	0.08	0.08	0.09	0.08	0.09	0.08	0.09	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.09	0.08	0.09
90	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
95	0.13	0.13	0.13	0.13	0.13	0.14	0.13	0.14	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.14	0.13
100	0.24	0.25	0.25	0.25	0.24	0.25	0.25	0.25	0.24	0.25	0.25	0.25	0.24	0.25	0.25	0.25	0.24	0.25	0.25
105	0.47	0.48	0.47	0.46	0.45	0.46	0.46	0.46	0.45	0.46	0.47	0.48	0.47	0.48	0.47	0.46	0.45	0.46	0.46
110	0.79	0.78	0.78	0.77	0.76	0.76	0.76	0.76	0.76	0.77	0.78	0.78	0.79	0.78	0.78	0.77	0.76	0.76	0.76
115	1.21	1.21	1.20	1.19	1.18	1.18	1.18	1.18	1.18	1.19	1.20	1.21	1.21	1.21	1.20	1.19	1.18	1.18	1.18
120	1.74	1.72	1.71	1.71	1.70	1.70	1.69	1.70	1.70	1.71	1.71	1.72	1.74	1.72	1.71	1.71	1.70	1.70	1.69
125	2.33	2.31	2.30	2.29	2.29	2.28	2.28	2.28	2.29	2.29	2.30	2.31	2.33	2.31	2.30	2.29	2.29	2.28	2.28
130	3.03	3.00	3.00	2.99	2.98	2.98	2.97	2.98	2.98	2.99	3.00	3.00	3.03	3.00	3.00	2.99	2.98	2.98	2.97
135	3.80	3.78	3.77	3.77	3.75	3.75	3.75	3.75	3.75	3.77	3.77	3.78	3.80	3.78	3.77	3.77	3.75	3.75	3.75
140	4.63	4.60	4.60	4.59	4.58	4.58	4.58	4.58	4.58	4.59	4.60	4.60	4.63	4.60	4.60	4.59	4.58	4.58	4.58
145	5.47	5.44	5.45	5.44	5.43	5.43	5.43	5.43	5.43	5.44	5.45	5.44	5.47	5.44	5.45	5.44	5.43	5.43	5.43
150	6.29	6.26	6.26	6.26	6.25	6.26	6.26	6.26	6.25	6.26	6.26	6.26	6.29	6.26	6.26	6.26	6.25	6.26	6.26
155	7.00	6.96	6.96	6.96	6.97	6.97	6.97	6.97	6.97	6.96	6.96	6.96	7.00	6.96	6.96	6.96	6.97	6.97	6.97
160	7.71	7.67	7.67	7.68	7.68	7.68	7.68	7.68	7.68	7.68	7.67	7.67	7.71	7.67	7.67	7.68	7.68	7.68	7.68
165	8.38	8.32	8.32	8.33	8.34	8.35	8.34	8.35	8.34	8.33	8.32	8.32	8.38	8.32	8.32	8.33	8.34	8.35	8.34
170	8.96	8.90	8.91	8.92	8.93	8.93	8.93	8.93	8.93	8.92	8.91	8.90	8.96	8.90	8.91	8.92	8.93	8.93	8.93
175	9.41	9.36	9.36	9.35	9.36	9.36	9.36	9.36	9.36	9.35	9.36	9.36	9.41	9.36	9.36	9.35	9.36	9.36	9.36
180	9.65	9.59	9.59	9.57	9.57	9.58	9.58	9.58	9.57	9.57	9.59	9.59	9.65	9.59	9.59	9.57	9.57	9.58	9.58

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: QC
Test Date: 2020-07-06

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity: 53.0%
Test Distance: 10.380m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Table--2

UNIT: ×10cd

C (DEG) γ (DEG)	285	300	315	330	345														
0	1365	1365	1366	1366	1367														
5	1380	1382	1385	1387	1389														
10	1400	1402	1400	1402	1407														
15	1355	1361	1359	1359	1369														
20	1309	1313	1325	1324	1333														
25	1186	1175	1197	1203	1202														
30	905	896	924	920	910														
35	630	637	637	658	671														
40	366	355	360	398	365														
45	192	190	190	198	185														
50	93.2	90.7	93.1	89.6	86.2														
55	29.8	31.2	29.9	31.0	28.5														
60	10.9	11.4	11.0	10.8	10.7														
65	5.20	5.42	5.28	5.13	5.20														
70	2.90	2.94	2.91	2.89	2.88														
75	1.77	1.77	1.76	1.73	1.73														
80	0.81	0.79	0.78	0.78	0.77														
85	0.08	0.09	0.08	0.08	0.08														
90	0.07	0.07	0.07	0.07	0.07														
95	0.14	0.13	0.13	0.13	0.13														
100	0.25	0.24	0.25	0.25	0.25														
105	0.46	0.45	0.46	0.47	0.48														
110	0.76	0.76	0.77	0.78	0.78														
115	1.18	1.18	1.19	1.20	1.21														
120	1.70	1.70	1.71	1.71	1.72														
125	2.28	2.29	2.29	2.30	2.31														
130	2.98	2.98	2.99	3.00	3.00														
135	3.75	3.75	3.77	3.77	3.78														
140	4.58	4.58	4.59	4.60	4.60														
145	5.43	5.43	5.44	5.45	5.44														
150	6.26	6.25	6.26	6.26	6.26														
155	6.97	6.97	6.96	6.96	6.96														
160	7.68	7.68	7.68	7.67	7.67														
165	8.35	8.34	8.33	8.32	8.32														
170	8.93	8.93	8.92	8.91	8.90														
175	9.36	9.36	9.35	9.36	9.36														
180	9.58	9.57	9.57	9.59	9.59														

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: QC
 Test Date: 2020-07-06

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity: 53.0%
 Test Distance: 10.380m [K=1.0000]
 Remarks:

Photometric Data Table [cd]

G/C	0.0	15.0	30.0	45.0	60.0	75.0	90.0	105.0	120.0	135.0
0.0	13766	13667	13658	13656	13648	13650	13644	13650	13648	13656
3.0	13864	13757	13741	13724	13702	13691	13681	13691	13702	13724
6.0	14068	13957	13932	13912	13887	13876	13874	13876	13887	13912
9.0	14196	14075	14029	14014	14022	14011	13991	14011	14022	14014
12.0	14091	13962	13894	13887	13934	13887	13823	13887	13934	13887
15.0	13794	13694	13585	13586	13614	13555	13472	13555	13614	13586
18.0	13594	13455	13361	13379	13332	13264	13250	13264	13332	13379
21.0	13284	13231	13149	13137	12985	12962	13016	12962	12985	13137
24.0	12402	12458	12444	12384	12178	12260	12474	12260	12178	12384
27.0	11015	10908	10977	10984	10720	10838	10990	10838	10720	10984
30.0	9298	9095	9204	9237	8965	9054	9099	9054	8965	9237
33.0	7589	7649	7590	7507	7404	7381	7585	7381	7404	7507
36.0	5866	6189	6072	5818	5813	5748	6090	5748	5813	5818
39.0	4094	4276	4527	4128	4070	4156	4265	4156	4070	4128
42.0	2660	2682	2974	2737	2723	2810	2859	2810	2723	2737
45.0	1835	1853	1976	1897	1903	1921	2004	1921	1903	1897
48.0	1188	1197	1287	1257	1229	1274	1346	1274	1229	1257
51.0	750.5	721.8	737.1	789.4	770.8	784.7	811.5	784.7	770.8	789.4
54.0	392.3	363.6	398.5	397.1	406.0	395.4	432.9	395.4	406.0	397.1
57.0	202.5	190.8	194.1	195.7	202.3	197.5	198.8	197.5	202.3	195.7
60.0	113.3	106.9	108.3	110.3	113.6	108.6	114.1	108.6	113.6	110.3
63.0	70.24	67.38	68.05	69.00	70.19	67.84	68.39	67.84	70.19	69.00
66.0	47.98	45.95	45.02	46.54	47.69	45.85	45.56	45.85	47.69	46.54
69.0	32.61	31.84	31.92	32.08	32.32	31.99	32.13	31.99	32.32	32.08
72.0	24.29	23.77	23.77	24.02	24.32	24.08	24.17	24.08	24.32	24.02
75.0	17.61	17.28	17.31	17.57	17.74	17.71	17.74	17.71	17.74	17.57
78.0	11.55	11.37	11.44	11.59	11.84	11.79	11.86	11.79	11.84	11.59
81.0	5.991	5.969	6.082	6.078	6.130	6.196	6.315	6.196	6.130	6.078
84.0	1.666	1.623	1.662	1.680	1.757	1.735	1.740	1.735	1.757	1.680
87.0	0.5323	0.5275	0.5265	0.5271	0.5265	0.5147	0.5277	0.5147	0.5265	0.5271
90.0	0.7167	0.7173	0.7052	0.7214	0.7123	0.7142	0.7111	0.7142	0.7123	0.7214
93.0	1.023	1.038	1.025	1.046	1.030	1.052	1.037	1.052	1.030	1.046
96.0	1.491	1.526	1.522	1.514	1.494	1.528	1.525	1.528	1.494	1.514
99.0	2.140	2.212	2.223	2.174	2.138	2.187	2.193	2.187	2.193	2.174
102.0	3.178	3.330	3.319	3.217	3.124	3.173	3.179	3.173	3.124	3.217
105.0	4.675	4.793	4.724	4.640	4.544	4.555	4.591	4.555	4.544	4.640
108.0	6.493	6.492	6.402	6.362	6.299	6.294	6.291	6.294	6.299	6.362
111.0	8.620	8.577	8.501	8.453	8.347	8.335	8.304	8.335	8.347	8.453
114.0	11.19	11.15	11.06	10.99	10.88	10.85	10.84	10.85	10.88	10.99
117.0	14.16	14.08	13.97	13.92	13.84	13.80	13.79	13.80	13.84	13.92
120.0	17.40	17.24	17.15	17.08	17.03	16.97	16.92	16.97	17.03	17.08
123.0	20.85	20.65	20.55	20.47	20.42	20.36	20.31	20.36	20.42	20.47
126.0	24.61	24.40	24.31	24.22	24.17	24.11	24.06	24.11	24.17	24.22
129.0	28.77	28.57	28.49	28.38	28.30	28.28	28.25	28.28	28.30	28.38
132.0	33.30	33.09	33.00	32.93	32.82	32.80	32.77	32.80	32.82	32.93
135.0	38.04	37.84	37.75	37.69	37.55	37.53	37.52	37.53	37.55	37.69
138.0	42.94	42.72	42.65	42.60	42.41	42.43	42.43	42.43	42.41	42.60
141.0	47.94	47.72	47.67	47.64	47.45	47.48	47.46	47.48	47.45	47.64
144.0	53.05	52.75	52.78	52.74	52.56	52.63	52.58	52.63	52.56	52.74
147.0	58.07	57.76	57.82	57.77	57.67	57.69	57.64	57.69	57.67	57.77
150.0	62.89	62.58	62.60	62.57	62.53	62.59	62.55	62.59	62.53	62.57
153.0	67.22	66.82	66.87	66.86	66.85	66.89	66.86	66.89	66.85	66.86
156.0	71.44	70.98	71.01	71.09	71.15	71.12	71.10	71.12	71.15	71.09
159.0	75.65	75.21	75.24	75.34	75.45	75.44	75.37	75.44	75.45	75.34
162.0	79.95	79.51	79.50	79.56	79.68	79.64	79.61	79.64	79.68	79.56
165.0	83.78	83.20	83.23	83.34	83.43	83.47	83.41	83.47	83.43	83.34
168.0	87.53	86.85	86.91	87.03	87.17	87.13	87.09	87.13	87.17	87.03
171.0	90.55	89.94	90.00	90.12	90.21	90.16	90.16	90.16	90.21	90.12
174.0	93.27	92.71	92.71	92.75	92.78	92.78	92.78	92.78	92.78	92.75
177.0	95.17	94.67	94.69	94.58	94.63	94.70	94.70	94.70	94.63	94.58
180.0	96.47	95.89	95.88	95.71	95.71	95.83	95.82	95.83	95.71	95.71
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	13658	13667	13766	13667	13658	13656	13648	13650	13644	13650
3.0	13741	13757	13864	13757	13741	13724	13702	13691	13681	13691
6.0	13932	13957	14068	13957	13932	13912	13887	13876	13874	13876
9.0	14029	14075	14196	14075	14029	14014	14022	14011	13991	14011
12.0	13894	13962	14091	13962	13894	13887	13934	13887	13823	13887
15.0	13585	13694	13794	13694	13585	13586	13614	13555	13472	13555
18.0	13361	13455	13594	13455	13361	13379	13332	13264	13250	13264
21.0	13149	13231	13284	13231	13149	13137	12985	12962	13016	12962
24.0	12444	12458	12402	12458	12444	12384	12178	12260	12474	12260
27.0	10977	10908	11015	10908	10977	10984	10720	10838	10990	10838
30.0	9204	9095	9298	9095	9204	9237	8965	9054	9099	9054

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QC
Test Date:2020-07-06

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:53.0%
Test Distance:10.380m [K=1.0000]
Remarks:

Photometric Data Table [cd]

33.0	7590	7649	7589	7649	7590	7507	7404	7381	7585	7381
36.0	6072	6189	5866	6189	6072	5818	5813	5748	6090	5748
39.0	4527	4276	4094	4276	4527	4128	4070	4156	4265	4156
42.0	2974	2682	2660	2682	2974	2737	2723	2810	2859	2810
45.0	1976	1853	1835	1853	1976	1897	1903	1921	2004	1921
48.0	1287	1197	1188	1197	1287	1257	1229	1274	1346	1274
51.0	737.1	721.8	750.5	721.8	737.1	789.4	770.8	784.7	811.5	784.7
54.0	398.5	363.6	392.3	363.6	398.5	397.1	406.0	395.4	432.9	395.4
57.0	194.1	190.8	202.5	190.8	194.1	195.7	202.3	197.5	198.8	197.5
60.0	108.3	106.9	113.3	106.9	108.3	110.3	113.6	108.6	114.1	108.6
63.0	68.05	67.38	70.24	67.38	68.05	69.00	70.19	67.84	68.39	67.84
66.0	45.02	45.95	47.98	45.95	45.02	46.54	47.69	45.85	45.56	45.85
69.0	31.92	31.84	32.61	31.84	31.92	32.08	32.32	31.99	32.13	31.99
72.0	23.77	23.77	24.29	23.77	23.77	24.02	24.32	24.08	24.17	24.08
75.0	17.31	17.28	17.61	17.28	17.31	17.57	17.74	17.71	17.74	17.71
78.0	11.44	11.37	11.55	11.37	11.44	11.59	11.84	11.79	11.86	11.79
81.0	6.082	5.969	5.991	5.969	6.082	6.078	6.130	6.196	6.315	6.196
84.0	1.662	1.623	1.666	1.623	1.662	1.680	1.735	1.735	1.740	1.735
87.0	0.5265	0.5275	0.5323	0.5275	0.5265	0.5271	0.5265	0.5147	0.5277	0.5147
90.0	0.7052	0.7173	0.7167	0.7173	0.7052	0.7214	0.7123	0.7142	0.7111	0.7142
93.0	1.025	1.038	1.023	1.038	1.025	1.046	1.030	1.052	1.037	1.052
96.0	1.522	1.526	1.491	1.526	1.522	1.514	1.494	1.528	1.525	1.528
99.0	2.223	2.212	2.140	2.212	2.223	2.174	2.138	2.187	2.193	2.187
102.0	3.319	3.330	3.178	3.330	3.319	3.217	3.124	3.173	3.179	3.173
105.0	4.724	4.793	4.675	4.793	4.724	4.640	4.544	4.555	4.591	4.555
108.0	6.402	6.492	6.493	6.492	6.402	6.362	6.299	6.294	6.291	6.294
111.0	8.501	8.577	8.620	8.577	8.501	8.453	8.347	8.335	8.304	8.335
114.0	11.06	11.15	11.19	11.15	11.06	10.99	10.88	10.85	10.84	10.85
117.0	13.97	14.08	14.16	14.08	13.97	13.92	13.84	13.80	13.79	13.80
120.0	17.15	17.24	17.40	17.15	17.15	17.08	17.03	16.97	16.92	16.97
123.0	20.55	20.65	20.85	20.65	20.55	20.47	20.42	20.36	20.31	20.36
126.0	24.31	24.40	24.61	24.40	24.31	24.22	24.17	24.11	24.06	24.11
129.0	28.49	28.57	28.77	28.57	28.49	28.38	28.30	28.28	28.25	28.28
132.0	33.00	33.09	33.30	33.09	33.00	32.93	32.82	32.80	32.77	32.80
135.0	37.75	37.84	38.04	37.84	37.75	37.69	37.55	37.53	37.52	37.53
138.0	42.65	42.72	42.94	42.72	42.65	42.60	42.41	42.43	42.43	42.43
141.0	47.67	47.72	47.94	47.72	47.67	47.64	47.45	47.48	47.46	47.48
144.0	52.78	52.75	53.05	52.75	52.78	52.74	52.56	52.63	52.58	52.63
147.0	57.82	57.76	58.07	57.76	57.82	57.77	57.67	57.69	57.64	57.69
150.0	62.60	62.58	62.89	62.58	62.60	62.57	62.53	62.59	62.55	62.59
153.0	66.87	66.82	67.22	66.82	66.87	66.86	66.85	66.89	66.86	66.89
156.0	71.01	70.98	71.44	70.98	71.01	71.09	71.15	71.12	71.10	71.12
159.0	75.24	75.21	75.65	75.21	75.24	75.34	75.45	75.44	75.37	75.44
162.0	79.50	79.51	79.95	79.51	79.50	79.56	79.68	79.64	79.61	79.64
165.0	83.23	83.20	83.78	83.20	83.23	83.34	83.43	83.47	83.41	83.47
168.0	86.91	86.85	87.53	86.85	86.91	87.03	87.17	87.13	87.09	87.13
171.0	90.00	89.94	90.55	89.94	90.00	90.12	90.21	90.16	90.16	90.16
174.0	92.71	92.71	93.27	92.71	92.71	92.75	92.78	92.78	92.78	92.78
177.0	94.69	94.67	95.17	94.67	94.69	94.58	94.63	94.70	94.70	94.70
180.0	95.88	95.89	96.47	95.89	95.88	95.71	95.71	95.83	95.82	95.83
G/C	300.0	315.0	330.0	345.0						
0.0	13648	13656	13658	13667						
3.0	13702	13724	13741	13757						
6.0	13887	13912	13932	13957						
9.0	14022	14014	14029	14075						
12.0	13934	13887	13894	13962						
15.0	13614	13586	13585	13694						
18.0	13332	13379	13361	13455						
21.0	12985	13137	13149	13231						
24.0	12178	12384	12444	12458						
27.0	10720	10984	10977	10908						
30.0	8965	9237	9204	9095						
33.0	7404	7507	7590	7649						
36.0	5813	5818	6072	6189						
39.0	4070	4128	4527	4276						
42.0	2723	2737	2974	2682						
45.0	1903	1897	1976	1853						
48.0	1229	1257	1287	1197						
51.0	770.8	789.4	737.1	721.8						
54.0	406.0	397.1	398.5	363.6						
57.0	202.3	195.7	194.1	190.8						
60.0	113.6	110.3	108.3	106.9						
63.0	70.19	69.00	68.05	67.38						
66.0	47.69	46.54	45.02	45.95						

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: QC
 Test Date: 2020-07-06

v Range: 0 - 180DEG
 v Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity: 53.0%
 Test Distance: 10.380m [K=1.0000]
 Remarks:

Photometric Data Table [cd]

69.0	32.32	32.08	31.92	31.84
72.0	24.32	24.02	23.77	23.77
75.0	17.74	17.57	17.31	17.28
78.0	11.84	11.59	11.44	11.37
81.0	6.130	6.078	6.082	5.969
84.0	1.757	1.680	1.662	1.623
87.0	0.5265	0.5271	0.5265	0.5275
90.0	0.7123	0.7214	0.7052	0.7173
93.0	1.030	1.046	1.025	1.038
96.0	1.494	1.514	1.522	1.526
99.0	2.138	2.174	2.223	2.212
102.0	3.124	3.217	3.319	3.330
105.0	4.544	4.640	4.724	4.793
108.0	6.299	6.362	6.402	6.492
111.0	8.347	8.453	8.501	8.577
114.0	10.88	10.99	11.06	11.15
117.0	13.84	13.92	13.97	14.08
120.0	17.03	17.08	17.15	17.24
123.0	20.42	20.47	20.55	20.65
126.0	24.17	24.22	24.31	24.40
129.0	28.30	28.38	28.49	28.57
132.0	32.82	32.93	33.00	33.09
135.0	37.55	37.69	37.75	37.84
138.0	42.41	42.60	42.65	42.72
141.0	47.45	47.64	47.67	47.72
144.0	52.56	52.74	52.78	52.75
147.0	57.67	57.77	57.82	57.76
150.0	62.53	62.57	62.60	62.58
153.0	66.85	66.86	66.87	66.82
156.0	71.15	71.09	71.01	70.98
159.0	75.45	75.34	75.24	75.21
162.0	79.68	79.56	79.50	79.51
165.0	83.43	83.34	83.23	83.20
168.0	87.17	87.03	86.91	86.85
171.0	90.21	90.12	90.00	89.94
174.0	92.78	92.75	92.71	92.71
177.0	94.63	94.58	94.69	94.67
180.0	95.71	95.71	95.88	95.89

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: QC
 Test Date: 2020-07-06

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity: 53.0%
 Test Distance: 10.380m [K=1.0000]
 Remarks: