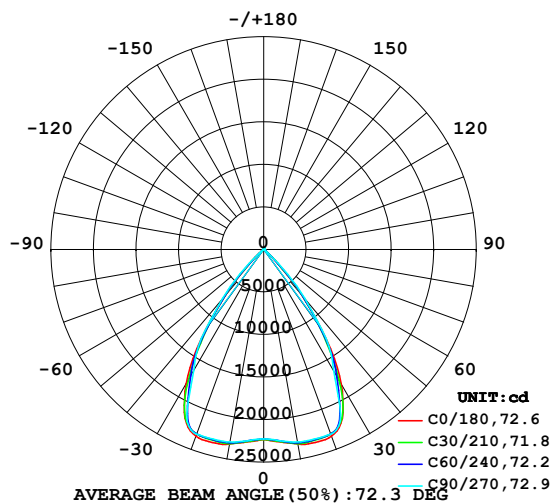


LUMINAIRE PHOTOMETRIC TEST REPORT

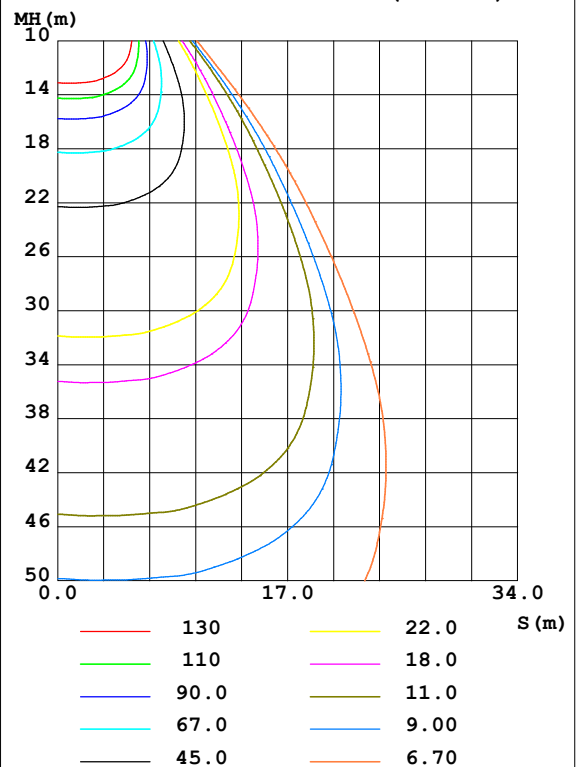
Test:U:230.3V I:0.8686A P:196.7W PF:0.9833 Freq:49.99Hz Lamp Flux:28972.1x1 lm		
NAME: H29APC-20-R360-70-50H-3803030R7	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ERVAN	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 147.28 lm/W			
MODEL		I _{max} (cd)	23502	S/MH (C0/180)	1.05
NOMINAL POWER (W)	200	LOR (%)	100.0	S/MH (C90/270)	1.06
RATED VOLTAGE (V)	230	TOTAL FLUX (lm)	28972	η UP, DN (C0-180)	0.5, 49.5
NOMINAL FLUX (lm)	28972.1	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: 2020-06-19

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	2324	2315	2297	2315	2324	2315	2297	2315	0- 10	2177	2177	7.52, 7.52
20	2334	2320	2309	2320	2334	2320	2309	2320	10- 20	6573	8750	30.2, 30.2
30	1823	1749	1650	1749	1823	1749	1650	1749	20- 30	9681	18432	63.6, 63.6
40	700.3	703.2	749.5	703.2	700.3	703.2	749.5	703.2	30- 40	7629	26060	90, 90
50	53.87	54.20	59.87	54.20	53.87	54.20	59.87	54.20	40- 50	2291	28352	97.9, 97.9
60	10.97	10.75	10.77	10.75	10.97	10.75	10.77	10.75	50- 60	191.6	28543	98.5, 98.5
70	6.224	6.145	6.157	6.145	6.224	6.145	6.157	6.145	60- 70	80.06	28623	98.8, 98.8
80	3.395	3.325	3.335	3.325	3.395	3.325	3.335	3.325	70- 80	50.73	28674	99, 99
90	0.0841	0.0835	0.0839	0.0835	0.0841	0.0835	0.0839	0.0835	80- 90	15.98	28690	99, 99
100	0.4131	0.4010	0.4195	0.4010	0.4131	0.4010	0.4195	0.4010	90-100	2.078	28692	99, 99
110	1.430	1.367	1.346	1.367	1.430	1.367	1.346	1.367	100-110	8.709	28701	99.1, 99.1
120	3.046	2.965	2.961	2.965	3.046	2.965	2.961	2.965	110-120	20.93	28722	99.1, 99.1
130	5.256	5.149	5.158	5.149	5.256	5.149	5.158	5.149	120-130	35.76	28757	99.3, 99.3
140	7.936	7.808	7.788	7.808	7.936	7.808	7.788	7.808	130-140	49.83	28807	99.4, 99.4
150	10.52	10.40	10.37	10.40	10.52	10.40	10.37	10.40	140-150	57.09	28864	99.6, 99.6
160	12.93	12.78	12.79	12.78	12.93	12.78	12.79	12.78	150-160	53.34	28918	99.8, 99.8
170	15.37	15.19	15.15	15.19	15.37	15.19	15.15	15.19	160-170	39.46	28957	99.9, 99.9
180	16.57	16.39	16.42	16.39	16.57	16.39	16.42	16.39	170-180	15.07	28972	100, 100
DEG	LUMINOUS INTENSITY: *10cd									UNIT: lm		

Conical surface Flux(90deg): 27812 lm

%lum = 96.0%

%lamp = 96.0%

Conical surface Flux(120deg): 28543 lm

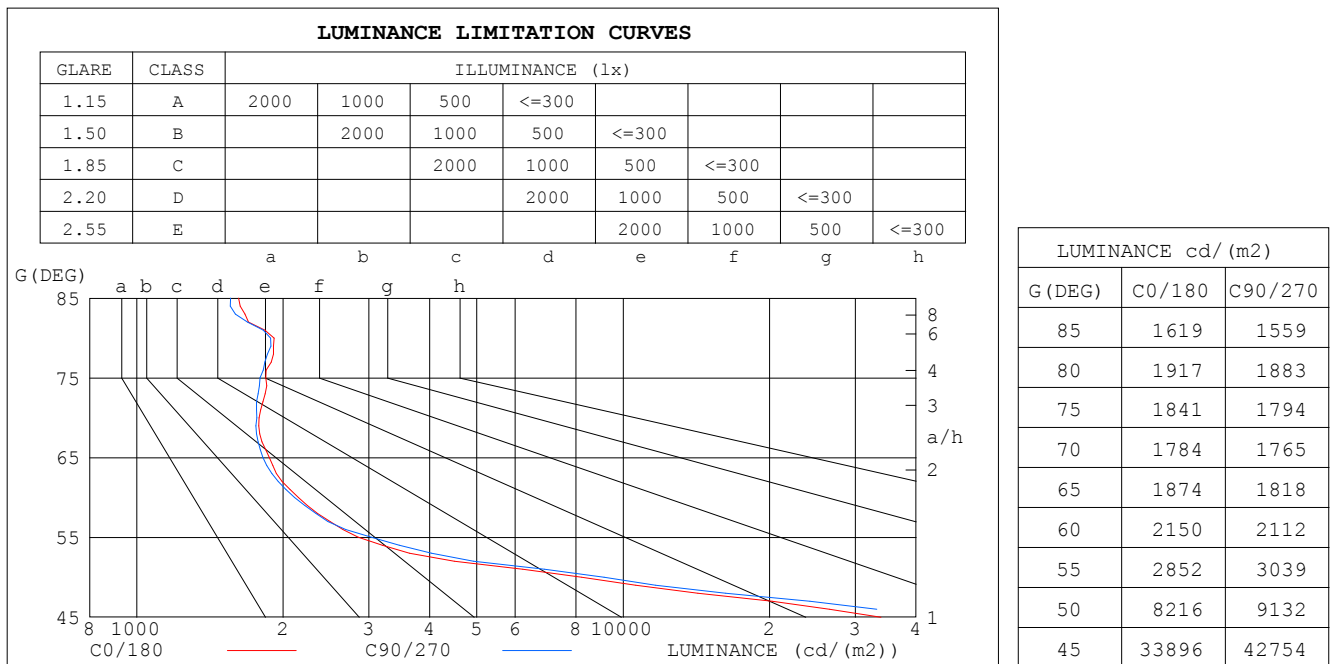
%lum = 98.5%

%lamp = 98.5%

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: QC
 Test Date: 2020-06-19

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

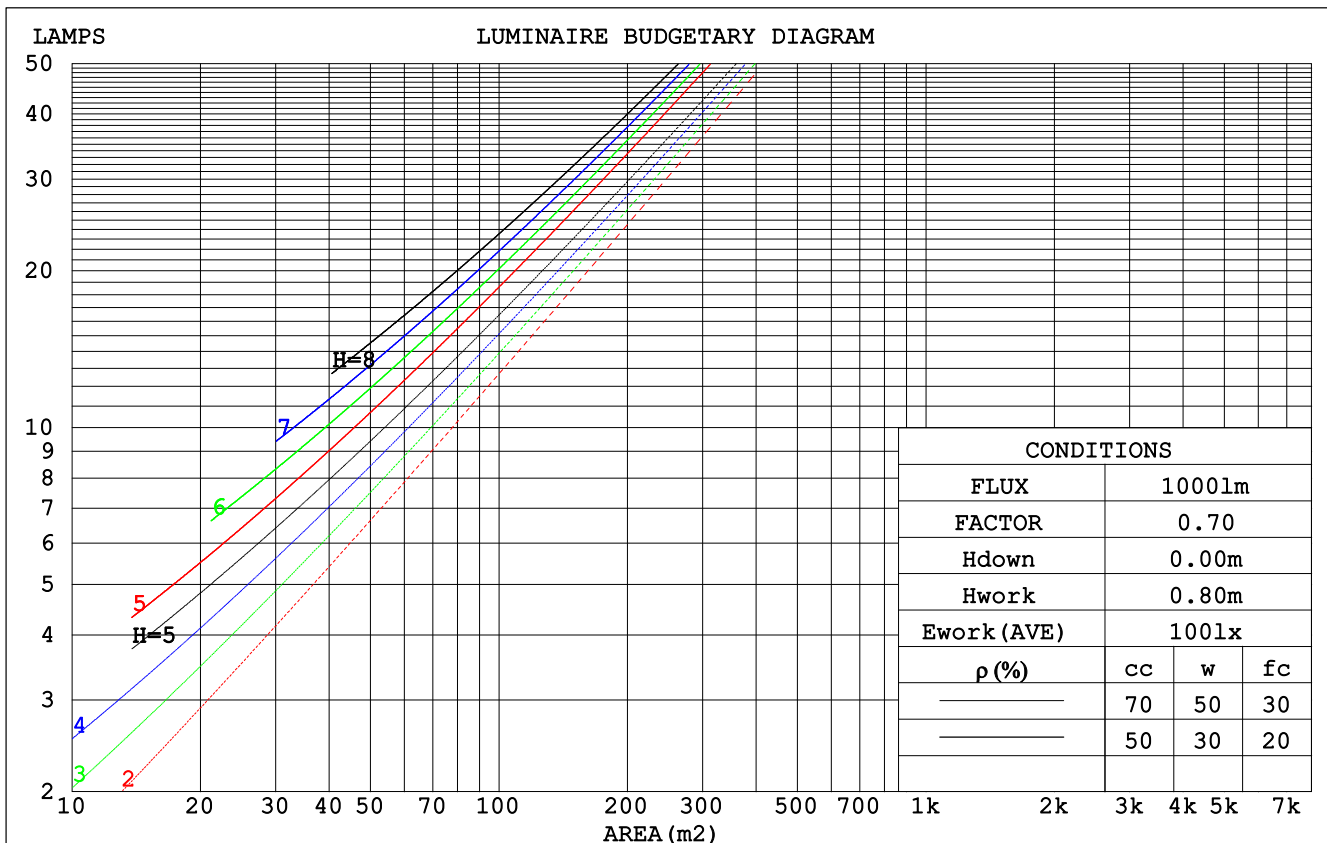


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: QC
Test Date: 2020-06-19

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	1.00	.90	.98	.97	.96	.95	.94	.92
2.0	1.02	.98	.94	1.00	.96	.93	.97	.94	.91	.94	.91	.89	.91	.89	.87	.85
3.0	.94	.89	.85	.93	.88	.84	.90	.86	.83	.88	.84	.81	.85	.82	.80	.78
4.0	.88	.82	.77	.86	.81	.77	.84	.80	.76	.82	.78	.75	.80	.77	.74	.72
5.0	.82	.75	.71	.81	.75	.71	.79	.74	.70	.77	.72	.69	.75	.71	.68	.67
6.0	.76	.70	.65	.75	.69	.65	.74	.68	.64	.72	.67	.64	.71	.67	.63	.62
7.0	.71	.65	.60	.70	.64	.60	.69	.64	.60	.68	.63	.59	.66	.62	.59	.57
8.0	.66	.60	.56	.66	.60	.56	.65	.59	.55	.63	.59	.55	.62	.58	.55	.53
9.0	.62	.56	.52	.62	.56	.52	.61	.55	.51	.60	.55	.51	.59	.54	.51	.50
10.0	.59	.52	.48	.58	.52	.48	.57	.52	.48	.56	.51	.48	.55	.51	.48	.46



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: QC
 Test Date: 2020-06-19

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	.186	.106	.034	.179	.102	.033	.166	.095	.030	.154	.089	.029	.143	.083	.027		
2.0	.180	.098	.030	.174	.096	.029	.162	.090	.028	.152	.085	.027	.142	.081	.025		
3.0	.172	.091	.027	.167	.089	.027	.157	.085	.026	.148	.081	.025	.140	.077	.024		
4.0	.164	.085	.025	.160	.084	.025	.151	.080	.024	.143	.077	.023	.136	.074	.023		
5.0	.157	.080	.023	.153	.078	.023	.145	.076	.022	.139	.073	.022	.132	.071	.021		
6.0	.150	.075	.021	.146	.074	.021	.140	.072	.021	.134	.069	.020	.128	.067	.020		
7.0	.143	.071	.020	.140	.070	.020	.134	.068	.020	.129	.066	.019	.124	.064	.019		
8.0	.137	.067	.019	.135	.066	.019	.129	.065	.018	.124	.063	.018	.120	.061	.018		
9.0	.132	.064	.018	.129	.063	.018	.124	.062	.017	.120	.060	.017	.116	.059	.017		
10.0	.126	.061	.017	.124	.060	.017	.120	.059	.017	.116	.057	.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	.115	.115	.115	.066	.066	.066	.021	.021	.021	
1.0	.179	.165	.152	.153	.141	.130	.105	.097	.090	.060	.056	.052	.019	.018	.017	
2.0	.165	.140	.119	.141	.121	.103	.097	.083	.072	.056	.048	.042	.018	.016	.014	
3.0	.153	.121	.096	.131	.105	.083	.090	.073	.058	.052	.042	.034	.017	.014	.011	
4.0	.143	.107	.079	.123	.092	.068	.085	.064	.048	.049	.038	.028	.016	.012	.009	
5.0	.135	.095	.066	.116	.082	.057	.080	.058	.040	.046	.034	.024	.015	.011	.008	
6.0	.128	.086	.056	.110	.075	.049	.076	.052	.034	.044	.031	.021	.014	.010	.007	
7.0	.122	.079	.048	.105	.068	.042	.073	.048	.030	.042	.028	.018	.014	.009	.006	
8.0	.117	.073	.043	.100	.063	.037	.070	.044	.026	.040	.026	.016	.013	.009	.005	
9.0	.112	.068	.038	.096	.059	.033	.067	.041	.023	.039	.024	.014	.013	.008	.005	
10.0	.107	.063	.034	.093	.055	.030	.064	.039	.021	.037	.023	.013	.012	.008	.004	

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QC
Test Date:2020-06-19

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	10.1	11.1	10.3	11.3	11.4	10.3	11.3	10.5	11.5	11.6
3H	9.9	10.8	10.2	11.0	11.3	10.1	11.0	10.4	11.2	11.4
4H	9.8	10.7	10.1	10.9	11.2	10.0	10.9	10.3	11.1	11.3
6H	9.7	10.5	10.0	10.8	11.1	9.9	10.7	10.2	11.0	11.3
8H	9.7	10.4	10.0	10.7	11.0	9.9	10.6	10.2	10.9	11.2
12H	9.6	10.4	10.0	10.7	11.0	9.8	10.6	10.2	10.9	11.1
4H 2H	9.8	10.7	10.1	10.9	11.1	10.0	10.9	10.3	11.1	11.3
3H	9.6	10.4	10.0	10.7	10.9	9.8	10.6	10.2	10.8	11.1
4H	9.5	10.2	9.9	10.5	10.9	9.7	10.4	10.1	10.7	11.0
6H	9.4	10.0	9.8	10.4	10.8	9.6	10.2	10.0	10.6	10.9
8H	9.4	9.9	9.8	10.3	10.7	9.6	10.1	10.0	10.5	10.9
12H	9.3	9.8	9.8	10.2	10.6	9.5	10.0	10.0	10.4	10.8
8H 4H	9.4	9.9	9.8	10.3	10.7	9.6	10.1	10.0	10.5	10.9
6H	9.3	9.7	9.7	10.2	10.6	9.5	9.9	9.9	10.4	10.8
8H	9.3	9.6	9.7	10.1	10.5	9.4	9.8	9.9	10.3	10.7
12H	9.2	9.5	9.7	10.0	10.5	9.4	9.7	9.9	10.2	10.7
12H 4H	9.3	9.8	9.8	10.2	10.6	9.5	10.0	10.0	10.4	10.8
6H	9.2	9.6	9.7	10.1	10.5	9.4	9.8	9.9	10.3	10.7
8H	9.2	9.5	9.7	10.0	10.5	9.4	9.7	9.9	10.2	10.7
Variations with the observer position at spacings:										
S = 1.0H	+ 3.3 / -13.9					+ 3.1 / -14.1				
1.5H	+ 5.7 / -13.4					+ 5.5 / -13.5				
2.0H	+ 8.0 / - 6.2					+ 8.6 / - 7.2				

CIE Pub.117, 28972 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 11.7)

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QC
Test Date:2020-06-19

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:

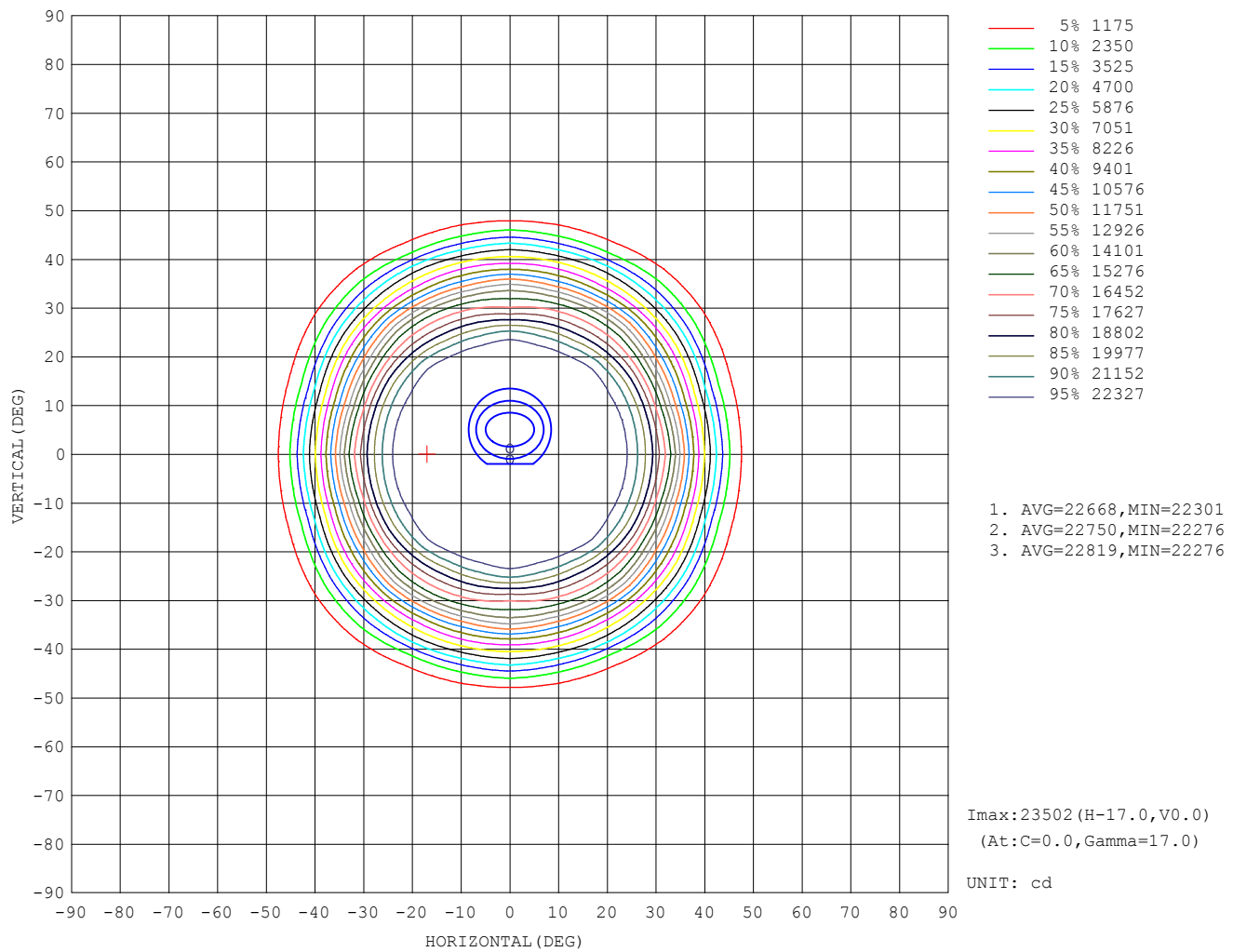
UTILIZATION FACTORS TABLE

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) $k(RI) \times RCR = 5$									
$k = 0.60$	85	79	75	85	78	75	84	78	74	71
0.80	93	87	83	92	87	83	91	86	82	78
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	97	104	99	96	101	98	95	90
2.00	108	104	100	106	102	99	103	100	98	92
2.50	110	106	103	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	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: 2020-06-19

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:

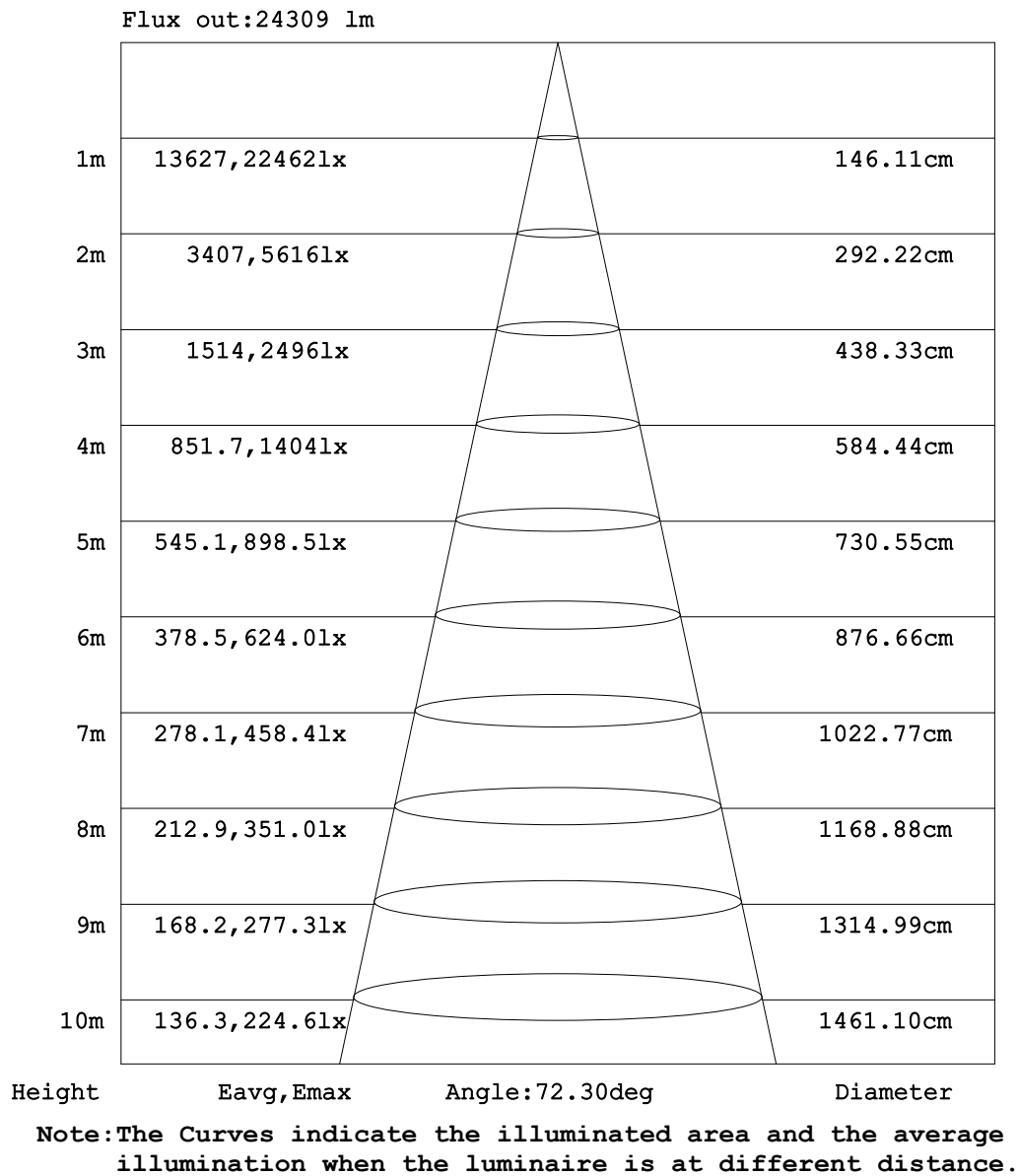
ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QC
Test Date:2020-06-19

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:

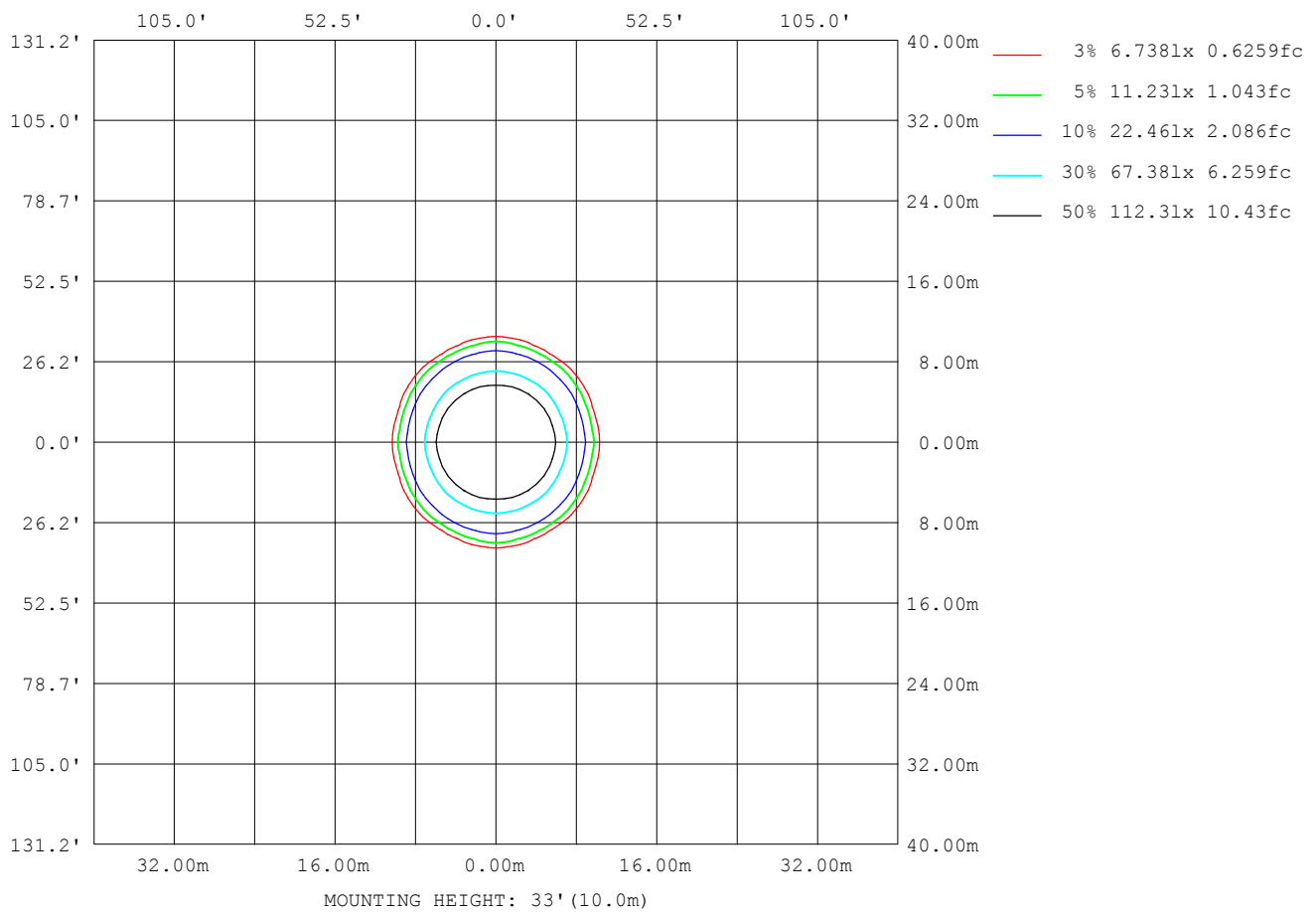
AAI Figure



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: QC
 Test Date: 2020-06-19

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: 2020-06-19

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:230.3V I:0.8686A P:196.7W PF:0.9833 Freq:49.99Hz Lamp Flux:28972.1x1 lm		
NAME: H29APC-20-R360-70-50H-3803030R7	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ERVAN	SUR.:	Shielding Angle:

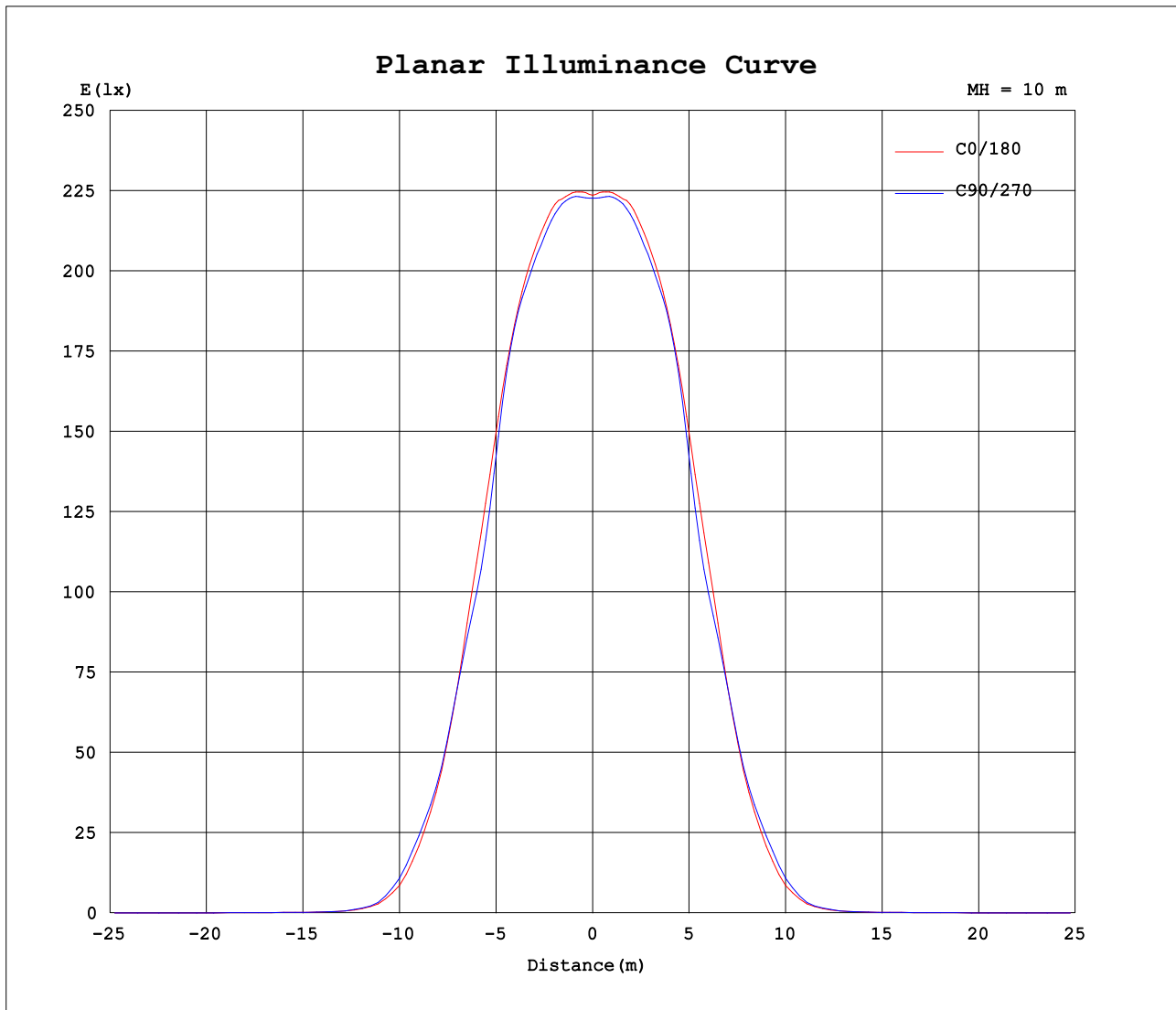
AvgL	cd/m2
L_0~180 (65) av	1874
L_0~180 (75) av	1841
L_0~180 (85) av	1619
L_90~270 (65) av	1818
L_90~270 (75) av	1794
L_90~270 (85) av	1559
L_45 (65) av	1830
L_45 (75) av	1810
L_45 (85) av	1613

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:QC
 Test Date:2020-06-19

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: 2020-06-19

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	2236	2238	2234	2230	2228	2227	2227	2227	2228	2230	2234	2238	2236	2238	2234	2230	2228	2227	2227
5	2271	2269	2267	2263	2259	2259	2258	2259	2259	2263	2267	2269	2271	2269	2267	2263	2259	2259	2258
10	2324	2321	2318	2315	2308	2299	2297	2299	2308	2315	2318	2321	2324	2321	2318	2315	2308	2299	2297
15	2349	2333	2321	2322	2316	2300	2307	2300	2316	2322	2321	2333	2349	2333	2321	2322	2316	2300	2307
20	2334	2318	2308	2320	2307	2299	2309	2299	2307	2320	2308	2318	2334	2318	2308	2320	2307	2299	2309
25	2189	2187	2183	2185	2126	2114	2139	2114	2126	2185	2183	2187	2189	2187	2183	2185	2126	2114	2139
30	1823	1784	1774	1749	1721	1699	1650	1699	1721	1749	1774	1784	1823	1784	1774	1749	1721	1699	1650
35	1282	1208	1214	1274	1251	1239	1279	1239	1251	1274	1214	1208	1282	1208	1214	1274	1251	1239	1279
40	700	664	706	703	717	742	749	742	717	703	706	664	700	664	706	703	717	742	749
45	244	214	251	268	245	275	308	275	245	268	251	214	244	214	251	268	245	275	308
50	53.9	52.5	60.1	54.2	53.9	57.1	59.9	57.1	53.9	54.2	60.1	52.5	53.9	52.5	60.1	54.2	53.9	57.1	59.9
55	16.7	16.8	16.5	16.6	17.5	18.1	17.8	18.1	17.5	16.6	16.5	16.8	16.7	16.8	16.5	16.6	17.5	18.1	17.8
60	11.0	10.8	10.6	10.7	11.1	10.8	10.8	10.8	11.1	10.7	10.6	10.8	11.0	10.8	10.6	10.7	11.1	10.8	10.8
65	8.08	7.90	7.70	7.89	8.08	7.96	7.84	7.96	8.08	7.89	7.70	7.90	8.08	7.90	7.70	7.89	8.08	7.96	7.84
70	6.22	6.20	6.06	6.14	6.36	6.25	6.16	6.25	6.36	6.14	6.06	6.20	6.22	6.20	6.06	6.14	6.36	6.25	6.16
75	4.86	4.79	4.74	4.78	4.85	4.83	4.74	4.83	4.85	4.78	4.74	4.79	4.86	4.79	4.74	4.78	4.85	4.83	4.74
80	3.40	3.28	3.22	3.33	3.44	3.36	3.34	3.36	3.44	3.33	3.22	3.28	3.40	3.28	3.22	3.33	3.44	3.36	3.34
85	1.44	1.36	1.33	1.43	1.50	1.46	1.39	1.46	1.50	1.43	1.33	1.36	1.44	1.36	1.33	1.43	1.50	1.46	1.39
90	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
95	0.17	0.16	0.16	0.16	0.16	0.17	0.17	0.17	0.16	0.16	0.16	0.16	0.17	0.16	0.16	0.16	0.16	0.17	0.17
100	0.41	0.39	0.39	0.40	0.40	0.42	0.42	0.42	0.40	0.40	0.39	0.39	0.41	0.39	0.39	0.40	0.40	0.42	0.42
105	0.83	0.78	0.78	0.80	0.79	0.81	0.81	0.81	0.79	0.80	0.78	0.78	0.83	0.78	0.78	0.80	0.79	0.81	0.81
110	1.43	1.36	1.35	1.37	1.37	1.36	1.35	1.36	1.37	1.37	1.35	1.36	1.43	1.36	1.35	1.37	1.37	1.36	1.35
115	2.18	2.09	2.09	2.10	2.09	2.08	2.07	2.08	2.09	2.10	2.09	2.09	2.18	2.09	2.09	2.10	2.09	2.08	2.07
120	3.05	2.95	2.96	2.96	2.97	2.97	2.96	2.97	2.97	2.96	2.96	2.95	3.05	2.95	2.96	2.96	2.97	2.97	2.96
125	4.06	3.96	3.96	3.97	3.98	3.98	3.98	3.98	3.98	3.97	3.96	3.96	4.06	3.96	3.96	3.97	3.98	3.98	3.98
130	5.26	5.14	5.14	5.15	5.16	5.16	5.16	5.16	5.16	5.15	5.14	5.14	5.26	5.14	5.14	5.15	5.16	5.16	5.16
135	6.57	6.45	6.45	6.45	6.46	6.46	6.46	6.46	6.46	6.45	6.45	6.45	6.57	6.45	6.45	6.45	6.46	6.46	6.46
140	7.94	7.82	7.80	7.81	7.81	7.81	7.79	7.81	7.81	7.81	7.80	7.82	7.94	7.82	7.80	7.81	7.81	7.81	7.79
145	9.27	9.17	9.14	9.15	9.14	9.13	9.11	9.13	9.14	9.15	9.14	9.17	9.27	9.17	9.14	9.15	9.14	9.13	9.11
150	10.5	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.5	10.4	10.4	10.4	10.4	10.4	10.4
155	11.7	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.7	11.6	11.6	11.6	11.6	11.6	11.6
160	12.9	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.9	12.8	12.8	12.8	12.8	12.8	12.8
165	14.2	14.1	14.1	14.1	14.0	14.0	14.0	14.0	14.0	14.1	14.1	14.1	14.2	14.1	14.1	14.1	14.0	14.0	14.0
170	15.4	15.3	15.2	15.2	15.1	15.1	15.2	15.1	15.1	15.2	15.2	15.3	15.4	15.3	15.2	15.2	15.1	15.1	15.2
175	16.2	16.1	16.1	16.1	16.0	16.0	16.1	16.0	16.0	16.1	16.1	16.1	16.2	16.1	16.1	16.1	16.0	16.0	16.1
180	16.6	16.5	16.5	16.4	16.3	16.4	16.4	16.4	16.3	16.4	16.5	16.5	16.6	16.5	16.5	16.4	16.3	16.4	16.4

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QC
Test Date:2020-06-19

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	2227	2228	2230	2234	2238														
5	2259	2259	2263	2267	2269														
10	2299	2308	2315	2318	2321														
15	2300	2316	2322	2321	2333														
20	2299	2307	2320	2308	2318														
25	2114	2126	2185	2183	2187														
30	1699	1721	1749	1774	1784														
35	1239	1251	1274	1214	1208														
40	742	717	703	706	664														
45	275	245	268	251	214														
50	57.1	53.9	54.2	60.1	52.5														
55	18.1	17.5	16.6	16.5	16.8														
60	10.8	11.1	10.7	10.6	10.8														
65	7.96	8.08	7.89	7.70	7.90														
70	6.25	6.36	6.14	6.06	6.20														
75	4.83	4.85	4.78	4.74	4.79														
80	3.36	3.44	3.33	3.22	3.28														
85	1.46	1.50	1.43	1.33	1.36														
90	0.08	0.08	0.08	0.08	0.08														
95	0.17	0.16	0.16	0.16	0.16														
100	0.42	0.40	0.40	0.39	0.39														
105	0.81	0.79	0.80	0.78	0.78														
110	1.36	1.37	1.37	1.35	1.36														
115	2.08	2.09	2.10	2.09	2.09														
120	2.97	2.97	2.96	2.96	2.95														
125	3.98	3.98	3.97	3.96	3.96														
130	5.16	5.16	5.15	5.14	5.14														
135	6.46	6.46	6.45	6.45	6.45														
140	7.81	7.81	7.81	7.80	7.82														
145	9.13	9.14	9.15	9.14	9.17														
150	10.4	10.4	10.4	10.4	10.4														
155	11.6	11.6	11.6	11.6	11.6														
160	12.8	12.8	12.8	12.8	12.8														
165	14.0	14.0	14.1	14.1	14.1														
170	15.1	15.1	15.2	15.2	15.3														
175	16.0	16.0	16.1	16.1	16.1														
180	16.4	16.3	16.4	16.5	16.5														

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: QC
 Test Date: 2020-06-19

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	22361	22378	22343	22305	22281	22274	22271	22274	22281	22305
3.0	22555	22541	22505	22443	22418	22398	22384	22398	22418	22443
6.0	22804	22787	22775	22746	22714	22695	22667	22695	22714	22746
9.0	23087	23108	23080	23067	23017	22951	22918	22951	23017	23067
12.0	23406	23333	23260	23195	23137	23028	23050	23028	23137	23195
15.0	23492	23334	23207	23221	23156	23001	23073	23001	23156	23221
18.0	23495	23326	23189	23229	23148	23025	23087	23025	23148	23229
21.0	23190	23063	22974	23128	22980	22880	23038	22880	22980	23128
24.0	22362	22330	22240	22389	21938	21809	22101	21809	21938	22389
27.0	20586	20588	20548	20232	19617	19461	19377	19461	19617	20232
30.0	18228	17839	17741	17489	17210	16987	16496	16987	17210	17489
33.0	15312	14484	14436	14893	14740	14496	14541	14496	14740	14893
36.0	11529	10922	11045	11541	11252	11237	11664	11237	11252	11541
39.0	7998	7673	8057	8013	8038	8310	8345	8310	8038	8013
42.0	5076	4635	5100	5161	5438	5542	5852	5542	5438	5161
45.0	2445	2143	2513	2676	2454	2752	3084	2752	2454	2676
48.0	972.8	935.9	1095	1080	952.4	1086	1109	1086	952.4	1080
51.0	399.3	378.5	450.1	383.4	405.1	411.3	442.5	411.3	405.1	383.4
54.0	191.7	191.4	202.4	192.7	203.9	207.8	207.8	208.5	203.9	192.7
57.0	138.7	135.4	133.4	135.7	139.7	138.6	137.3	138.6	139.7	135.7
60.0	109.7	107.6	105.8	107.5	110.5	108.2	107.7	108.2	110.5	107.5
63.0	89.64	88.46	86.55	88.08	90.29	88.99	87.75	88.99	90.29	88.08
66.0	76.37	74.88	73.13	74.81	76.51	75.28	74.50	75.28	76.51	74.81
69.0	65.15	64.46	63.26	64.28	66.35	65.02	64.26	65.02	66.35	64.28
72.0	57.31	56.81	55.46	56.46	58.04	57.21	55.54	57.21	58.04	56.46
75.0	48.60	47.86	47.36	47.79	48.52	48.28	47.35	48.28	48.52	47.79
78.0	40.50	38.57	38.09	39.17	40.34	39.85	39.37	39.85	40.34	39.17
81.0	29.27	28.63	28.39	28.91	29.48	29.24	29.03	29.24	29.48	28.91
84.0	17.41	16.85	16.30	16.85	17.70	16.95	16.59	16.95	17.70	16.85
87.0	9.557	8.287	8.523	8.654	9.164	10.38	9.967	10.38	9.164	8.654
90.0	0.8410	0.8212	0.8230	0.8350	0.8249	0.8409	0.8393	0.8409	0.8249	0.8350
93.0	1.191	1.157	1.168	1.165	1.116	1.172	1.162	1.172	1.116	1.165
96.0	1.993	1.871	1.926	1.990	1.896	2.024	2.067	2.024	1.896	1.990
99.0	3.506	3.262	3.312	3.416	3.397	3.544	3.595	3.544	3.397	3.416
102.0	5.572	5.217	5.256	5.377	5.349	5.518	5.546	5.518	5.349	5.377
105.0	8.307	7.766	7.794	7.988	7.947	8.066	8.106	8.066	7.947	7.988
108.0	11.72	11.04	11.01	11.24	11.24	11.27	11.18	11.27	11.24	11.24
111.0	15.68	14.95	14.90	14.98	14.97	14.88	14.71	14.88	14.97	14.98
114.0	20.16	19.34	19.36	19.38	19.29	19.17	19.04	19.17	19.29	19.38
117.0	25.12	24.18	24.28	24.32	24.27	24.19	24.11	24.19	24.27	24.32
120.0	30.46	29.49	29.60	29.65	29.67	29.68	29.61	29.68	29.67	29.65
123.0	36.34	35.32	35.41	35.49	35.52	35.57	35.53	35.57	35.52	35.49
126.0	42.89	41.82	41.84	41.93	41.98	42.05	42.03	42.05	41.98	41.93
129.0	50.05	48.92	48.92	49.02	49.08	49.11	49.11	49.11	49.08	49.02
132.0	57.73	56.54	56.52	56.61	56.68	56.69	56.67	56.69	56.68	56.61
135.0	65.73	64.54	64.47	64.53	64.59	64.61	64.57	64.61	64.59	64.53
138.0	73.92	72.72	72.58	72.64	72.66	72.68	72.55	72.68	72.66	72.64
141.0	82.05	80.96	80.77	80.75	80.75	80.68	80.54	80.68	80.75	80.75
144.0	90.10	89.11	88.79	88.82	88.83	88.73	88.47	88.73	88.83	88.82
147.0	97.82	96.91	96.56	96.61	96.58	96.49	96.23	96.49	96.58	96.61
150.0	105.2	104.4	103.9	104.0	104.0	103.9	103.7	103.9	104.0	104.0
153.0	112.1	111.3	111.0	111.0	111.0	111.0	110.9	111.0	111.0	111.0
156.0	119.4	118.4	118.2	118.1	118.3	118.2	118.3	118.2	118.3	118.1
159.0	126.9	125.7	125.5	125.4	125.5	125.4	125.5	125.4	125.5	125.4
162.0	134.5	133.3	133.1	133.0	133.0	133.0	133.1	133.0	133.0	133.0
165.0	142.1	141.0	140.8	140.5	140.4	140.4	140.5	140.4	140.4	140.5
168.0	149.4	148.3	148.0	147.6	147.3	147.2	147.4	147.2	147.3	147.6
171.0	155.6	154.5	154.3	153.7	153.3	153.3	153.4	153.3	153.3	153.7
174.0	161.0	159.9	159.9	159.3	158.9	159.0	159.4	159.0	158.9	159.3
177.0	164.0	163.0	163.1	162.4	162.0	162.2	162.6	162.2	162.0	162.4
180.0	165.7	164.9	164.8	163.9	163.5	163.9	164.2	163.9	163.5	163.9
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	22343	22378	22361	22378	22343	22305	22281	22274	22271	22274
3.0	22505	22541	22555	22541	22505	22443	22418	22398	22384	22398
6.0	22775	22787	22804	22787	22775	22746	22714	22695	22667	22695
9.0	23080	23108	23087	23108	23080	23067	23017	22951	22918	22951
12.0	23260	23333	23406	23333	23260	23195	23137	23028	23050	23028
15.0	23207	23334	23492	23334	23207	23221	23156	23001	23073	23001
18.0	23189	23326	23495	23326	23189	23229	23148	23025	23087	23025
21.0	22974	23063	23190	23063	22974	23128	22980	22880	23038	22880
24.0	22240	22330	22362	22330	22240	22389	21938	21809	22101	21809
27.0	20548	20588	20586	20588	20548	20232	19617	19461	19377	19461
30.0	17741	17839	18228	17839	17741	17489	17210	16987	16496	16987

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: QC
 Test Date: 2020-06-19

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	14436	14484	15312	14484	14436	14893	14740	14496	14541	14496
36.0	11045	10922	11529	10922	11045	11541	11252	11237	11664	11237
39.0	8057	7673	7998	7673	8057	8013	8038	8310	8345	8310
42.0	5100	4635	5076	4635	5100	5161	5438	5542	5852	5542
45.0	2513	2143	2445	2143	2513	2676	2454	2752	3084	2752
48.0	1095	935.9	972.8	935.9	1095	1080	952.4	1086	1109	1086
51.0	450.1	378.5	399.3	378.5	450.1	383.4	405.1	411.3	442.5	411.3
54.0	202.4	191.4	191.7	191.4	202.4	192.7	203.9	208.5	207.8	208.5
57.0	133.4	135.4	138.7	135.4	133.4	135.7	139.7	138.6	137.3	138.6
60.0	105.8	107.6	109.7	107.6	105.8	107.5	110.5	108.2	107.7	108.2
63.0	86.55	88.46	89.64	88.46	86.55	88.08	90.29	88.99	87.75	88.99
66.0	73.13	74.88	76.37	74.88	73.13	74.81	76.51	75.28	74.50	75.28
69.0	63.26	64.46	65.15	64.46	63.26	64.28	66.35	65.02	64.26	65.02
72.0	55.46	56.81	57.31	56.81	55.46	56.46	58.04	57.21	55.54	57.21
75.0	47.36	47.86	48.60	47.86	47.36	47.79	48.52	48.28	47.35	48.28
78.0	38.09	38.57	40.50	38.57	38.09	39.17	40.34	39.85	39.37	39.85
81.0	28.39	28.63	29.27	28.63	28.39	28.91	29.48	29.24	29.03	29.24
84.0	16.30	16.85	17.41	16.85	16.30	16.85	17.70	16.95	16.59	16.95
87.0	8.523	8.287	9.557	8.287	8.523	8.654	9.164	10.38	9.967	10.38
90.0	0.8230	0.8212	0.8410	0.8212	0.8230	0.8350	0.8249	0.8409	0.8393	0.8409
93.0	1.168	1.157	1.191	1.157	1.168	1.165	1.116	1.172	1.162	1.172
96.0	1.926	1.871	1.993	1.871	1.926	1.990	1.896	2.024	2.067	2.024
99.0	3.312	3.262	3.506	3.262	3.312	3.416	3.397	3.544	3.595	3.544
102.0	5.256	5.217	5.572	5.217	5.256	5.377	5.349	5.518	5.546	5.518
105.0	7.794	7.766	8.307	7.766	7.794	7.988	7.947	8.066	8.106	8.066
108.0	11.01	11.04	11.72	11.04	11.01	11.24	11.24	11.27	11.18	11.27
111.0	14.90	14.95	15.68	14.95	14.90	14.98	14.97	14.88	14.71	14.88
114.0	19.36	19.34	20.16	19.34	19.36	19.38	19.29	19.17	19.04	19.17
117.0	24.28	24.18	25.12	24.18	24.28	24.32	24.27	24.19	24.11	24.19
120.0	29.60	29.49	30.46	29.49	29.60	29.65	29.67	29.68	29.61	29.68
123.0	35.41	35.32	36.34	35.32	35.41	35.49	35.52	35.57	35.53	35.57
126.0	41.84	41.82	42.89	41.82	41.84	41.93	41.98	42.05	42.03	42.05
129.0	48.92	48.92	50.05	48.92	48.92	49.02	49.08	49.11	49.11	49.11
132.0	56.52	56.54	57.73	56.54	56.52	56.61	56.68	56.69	56.67	56.69
135.0	64.47	64.54	65.73	64.54	64.47	64.53	64.59	64.61	64.57	64.61
138.0	72.58	72.72	73.92	72.72	72.58	72.64	72.66	72.68	72.55	72.68
141.0	80.77	80.96	82.05	80.96	80.77	80.75	80.75	80.68	80.54	80.68
144.0	88.79	89.11	90.10	89.11	88.79	88.82	88.83	88.73	88.47	88.73
147.0	96.56	96.91	97.82	96.91	96.56	96.61	96.58	96.49	96.23	96.49
150.0	103.9	104.4	105.2	104.4	103.9	104.0	104.0	103.9	103.7	103.9
153.0	111.0	111.3	112.1	111.3	111.0	111.0	111.0	111.0	110.9	111.0
156.0	118.2	118.4	119.4	118.4	118.2	118.1	118.3	118.2	118.3	118.2
159.0	125.5	125.7	126.9	125.7	125.5	125.4	125.5	125.4	125.5	125.4
162.0	133.1	133.3	134.5	133.3	133.1	133.0	133.0	133.0	133.1	133.0
165.0	140.8	141.0	142.1	141.0	140.8	140.5	140.4	140.4	140.5	140.4
168.0	148.0	148.3	149.4	148.3	148.0	147.6	147.3	147.2	147.4	147.2
171.0	154.3	154.5	155.6	154.5	154.3	153.7	153.3	153.3	153.4	153.3
174.0	159.9	159.9	161.0	159.9	159.9	159.3	158.9	159.0	159.4	159.0
177.0	163.1	163.0	164.0	163.0	163.1	162.4	162.0	162.2	162.6	162.2
180.0	164.8	164.9	165.7	164.9	164.8	163.9	163.5	163.9	164.2	163.9
G/C	300.0	315.0	330.0	345.0						
0.0	22281	22305	22343	22378						
3.0	22418	22443	22505	22541						
6.0	22714	22746	22775	22787						
9.0	23017	23067	23080	23108						
12.0	23137	23195	23260	23333						
15.0	23156	23221	23207	23334						
18.0	23148	23229	23189	23326						
21.0	22980	23128	22974	23063						
24.0	21938	22389	22240	22330						
27.0	19617	20232	20548	20588						
30.0	17210	17489	17741	17839						
33.0	14740	14893	14436	14484						
36.0	11252	11541	11045	10922						
39.0	8038	8013	8057	7673						
42.0	5438	5161	5100	4635						
45.0	2454	2676	2513	2143						
48.0	952.4	1080	1095	935.9						
51.0	405.1	383.4	450.1	378.5						
54.0	203.9	192.7	202.4	191.4						
57.0	139.7	135.7	133.4	135.4						
60.0	110.5	107.5	105.8	107.6						
63.0	90.29	88.08	86.55	88.46						
66.0	76.51	74.81	73.13	74.88						

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: QC
 Test Date: 2020-06-19

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	66.35	64.28	63.26	64.46
72.0	58.04	56.46	55.46	56.81
75.0	48.52	47.79	47.36	47.86
78.0	40.34	39.17	38.09	38.57
81.0	29.48	28.91	28.39	28.63
84.0	17.70	16.85	16.30	16.85
87.0	9.164	8.654	8.523	8.287
90.0	0.8249	0.8350	0.8230	0.8212
93.0	1.116	1.165	1.168	1.157
96.0	1.896	1.990	1.926	1.871
99.0	3.397	3.416	3.312	3.262
102.0	5.349	5.377	5.256	5.217
105.0	7.947	7.988	7.794	7.766
108.0	11.24	11.24	11.01	11.04
111.0	14.97	14.98	14.90	14.95
114.0	19.29	19.38	19.36	19.34
117.0	24.27	24.32	24.28	24.18
120.0	29.67	29.65	29.60	29.49
123.0	35.52	35.49	35.41	35.32
126.0	41.98	41.93	41.84	41.82
129.0	49.08	49.02	48.92	48.92
132.0	56.68	56.61	56.52	56.54
135.0	64.59	64.53	64.47	64.54
138.0	72.66	72.64	72.58	72.72
141.0	80.75	80.75	80.77	80.96
144.0	88.83	88.82	88.79	89.11
147.0	96.58	96.61	96.56	96.91
150.0	104.0	104.0	103.9	104.4
153.0	111.0	111.0	111.0	111.3
156.0	118.3	118.1	118.2	118.4
159.0	125.5	125.4	125.5	125.7
162.0	133.0	133.0	133.1	133.3
165.0	140.4	140.5	140.8	141.0
168.0	147.3	147.6	148.0	148.3
171.0	153.3	153.7	154.3	154.5
174.0	158.9	159.3	159.9	159.9
177.0	162.0	162.4	163.1	163.0
180.0	163.5	163.9	164.8	164.9

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: QC
 Test Date: 2020-06-19

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: