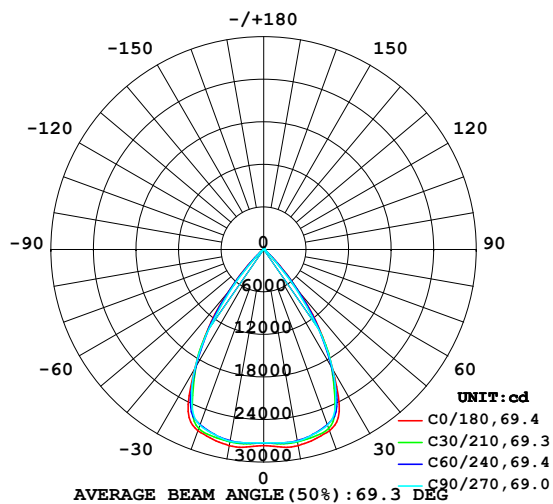


LUMINAIRE PHOTOMETRIC TEST REPORT

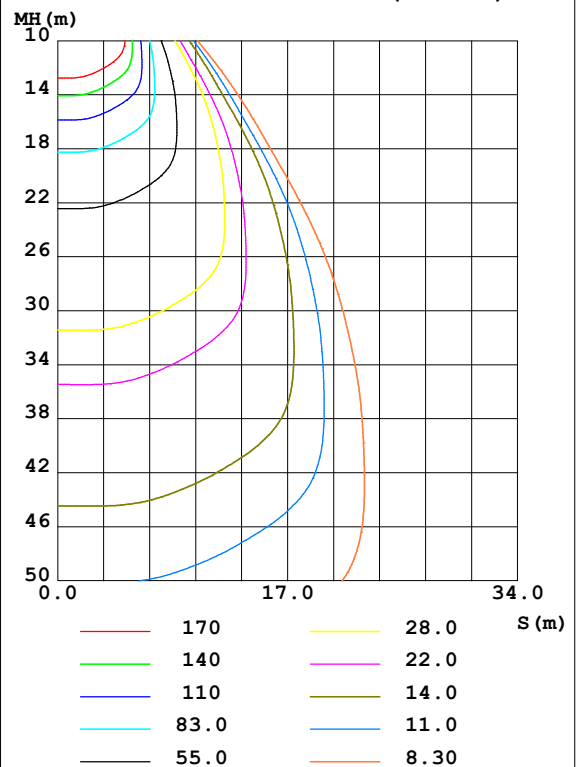
Test:U:230.3V I:0.8740A P:197.9W PF:0.9832 Freq:49.99Hz Lamp Flux:32361.2x1 lm		
NAME: H29APC-20-R360-70-40H-3803030R8	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ERVAN	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 163.49 lm/W			
MODEL		I _{max} (cd)	28141	S/MH (C0/180)	1.02
NOMINAL POWER (W)	200	LOR (%)	100.0	S/MH (C90/270)	1.01
RATED VOLTAGE (V)	230	TOTAL FLUX (lm)	32361	η UP, DN (C0-180)	0.5, 49.5
NOMINAL FLUX (lm)	32361.2	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: 2020-07-08

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	2809	2741	2747	2741	2809	2741	2747	2741	0- 10	2627	2627	8.12, 8.12
20	2718	2651	2637	2651	2718	2651	2637	2651	10- 20	7686	10313	31.9, 31.9
30	1954	1911	1946	1911	1954	1911	1946	1911	20- 30	10884	21198	65.5, 65.5
40	762.2	753.8	656.9	753.8	762.2	753.8	656.9	753.8	30- 40	8197	29395	90.8, 90.8
50	67.96	61.17	47.98	61.17	67.96	61.17	47.98	61.17	40- 50	2291	31686	97.9, 97.9
60	12.06	12.38	12.19	12.38	12.06	12.38	12.19	12.38	50- 60	224.6	31911	98.6, 98.6
70	5.953	6.147	6.076	6.147	5.953	6.147	6.076	6.147	60- 70	85.54	31996	98.9, 98.9
80	1.957	1.961	1.880	1.961	1.957	1.961	1.880	1.961	70- 80	42.72	32039	99, 99
90	0.0989	0.0908	0.0865	0.0908	0.0989	0.0908	0.0865	0.0908	80- 90	5.952	32045	99, 99
100	0.4553	0.4265	0.3793	0.4265	0.4553	0.4265	0.3793	0.4265	90-100	2.191	32047	99, 99
110	1.507	1.460	1.440	1.460	1.507	1.460	1.440	1.460	100-110	9.208	32056	99.1, 99.1
120	3.323	3.235	3.206	3.235	3.323	3.235	3.206	3.235	110-120	22.64	32079	99.1, 99.1
130	5.834	5.712	5.670	5.712	5.834	5.712	5.670	5.712	120-130	39.38	32118	99.2, 99.2
140	8.945	8.797	8.793	8.797	8.945	8.797	8.793	8.797	130-140	55.73	32174	99.4, 99.4
150	12.02	11.84	11.83	11.84	12.02	11.84	11.83	11.84	140-150	64.72	32239	99.6, 99.6
160	14.78	14.57	14.55	14.57	14.78	14.57	14.55	14.57	150-160	60.79	32299	99.8, 99.8
170	17.41	17.18	17.16	17.18	17.41	17.18	17.16	17.18	160-170	44.79	32344	99.9, 99.9
180	18.75	18.48	18.38	18.48	18.75	18.48	18.38	18.48	170-180	17.01	32361	100, 100
DEG	LUMINOUS INTENSITY: *10cd									UNIT: lm		

Conical surface Flux(90deg): 31150 lm

%lum = 96.3%

%lamp = 96.3%

Conical surface Flux(120deg): 31911 lm

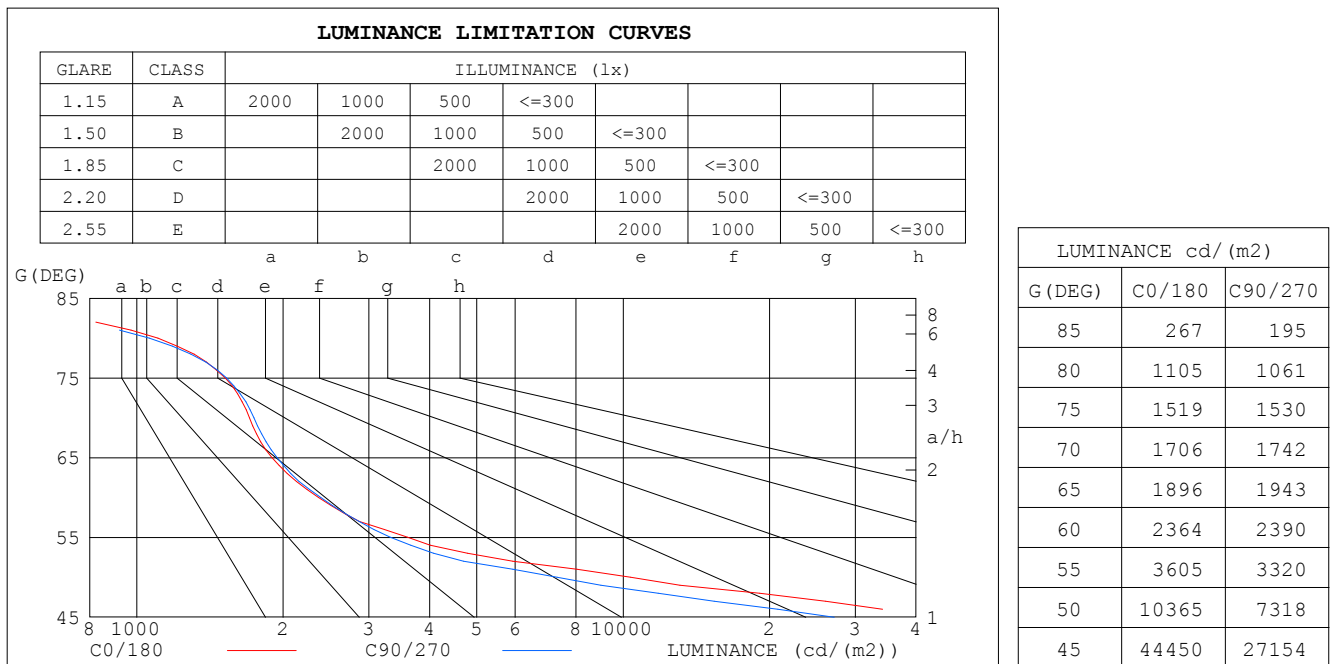
%lum = 98.6%

%lamp = 98.6%

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: QC
 Test Date: 2020-07-08

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

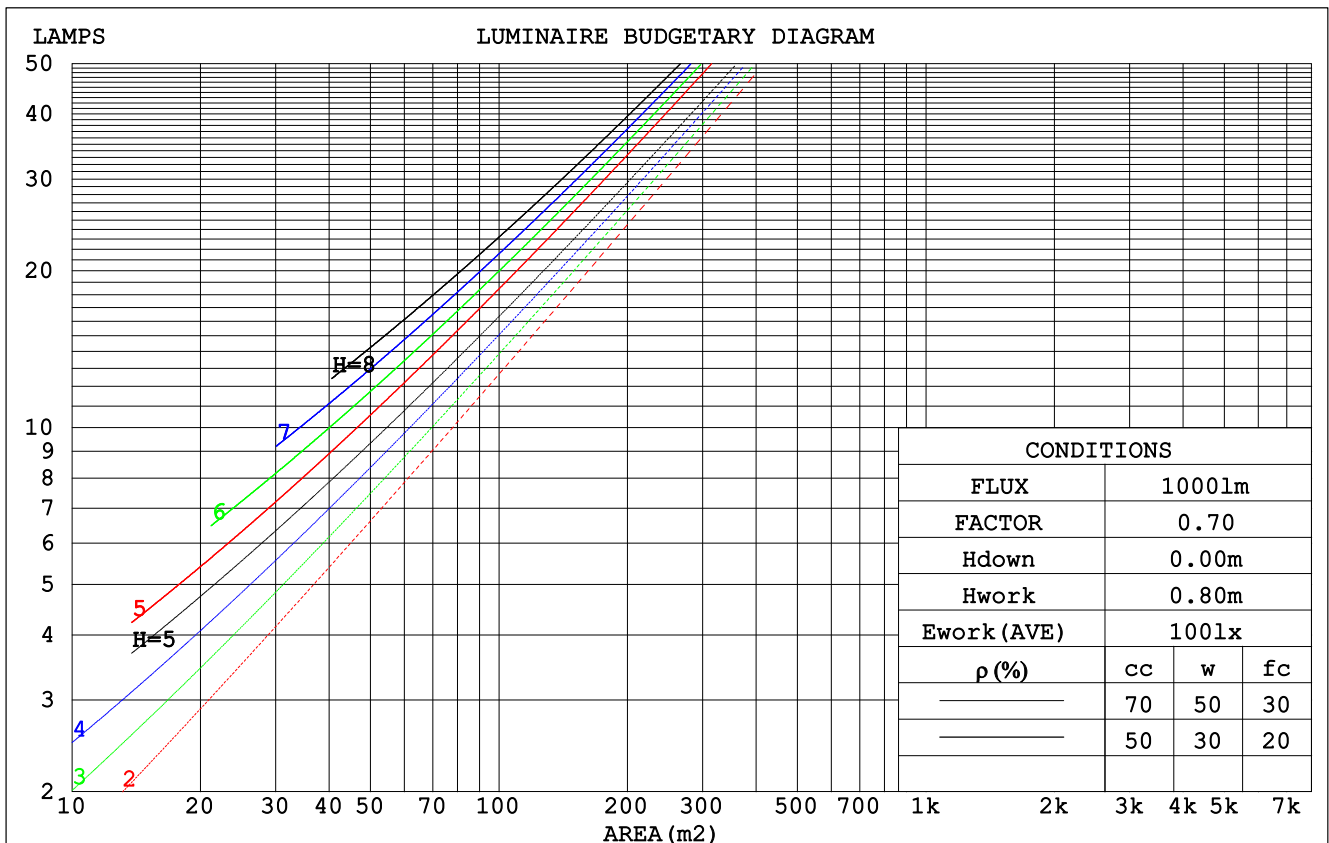


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: QC
Test Date: 2020-07-08

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	1.08	1.05	1.08	1.06	1.04	1.04	1.02	1.00	.90	.98	.97	.96	.95	.94	.92
2.0	1.02	.98	.94	1.00	.97	.93	.97	.94	.91	.94	.91	.89	.91	.89	.87	.85
3.0	.95	.90	.86	.93	.89	.85	.91	.87	.83	.88	.85	.82	.86	.83	.81	.79
4.0	.88	.82	.78	.87	.82	.78	.85	.80	.77	.83	.79	.76	.81	.77	.75	.73
5.0	.82	.76	.72	.81	.75	.71	.79	.74	.71	.77	.73	.70	.76	.72	.69	.68
6.0	.77	.70	.66	.76	.70	.66	.74	.69	.65	.73	.68	.65	.71	.67	.64	.63
7.0	.72	.65	.61	.71	.65	.61	.70	.64	.60	.68	.64	.60	.67	.63	.60	.58
8.0	.67	.61	.57	.67	.61	.57	.65	.60	.56	.64	.59	.56	.63	.59	.56	.54
9.0	.63	.57	.53	.63	.57	.53	.62	.56	.52	.61	.56	.52	.60	.55	.52	.51
10.0	.59	.53	.49	.59	.53	.49	.58	.53	.49	.57	.52	.49	.56	.52	.49	.47



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: QC
 Test Date: 2020-07-08

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	.184	.105	.033	.177	.101	.032	.164	.094	.030	.152	.087	.028	.140	.081	.026		
2.0	.177	.097	.030	.171	.094	.029	.160	.089	.028	.150	.084	.026	.140	.079	.025		
3.0	.169	.090	.027	.164	.088	.026	.155	.084	.025	.146	.080	.024	.137	.076	.024		
4.0	.162	.084	.025	.157	.082	.024	.149	.079	.024	.141	.076	.023	.134	.073	.022		
5.0	.154	.079	.023	.151	.077	.023	.143	.075	.022	.136	.072	.021	.130	.069	.021		
6.0	.148	.074	.021	.144	.073	.021	.138	.071	.021	.132	.068	.020	.126	.066	.020		
7.0	.141	.070	.020	.138	.069	.020	.132	.067	.019	.127	.065	.019	.122	.063	.019		
8.0	.135	.066	.019	.133	.065	.018	.127	.064	.018	.123	.062	.018	.118	.061	.018		
9.0	.130	.063	.018	.127	.062	.017	.123	.061	.017	.118	.059	.017	.114	.058	.017		
10.0	.125	.060	.017	.122	.059	.016	.118	.058	.016	.114	.057	.016	.110	.055	.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	.131	.105	.097	.090	.060	.056	.053	.019	.018	.017	
2.0	.164	.140	.119	.141	.121	.103	.097	.083	.072	.056	.049	.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	.069	.084	.064	.048	.049	.038	.029	.016	.012	.009	
5.0	.135	.095	.066	.116	.082	.058	.080	.058	.041	.046	.034	.024	.015	.011	.008	
6.0	.128	.086	.056	.110	.075	.049	.076	.052	.035	.044	.031	.021	.014	.010	.007	
7.0	.121	.079	.049	.104	.068	.042	.072	.048	.030	.042	.028	.018	.014	.009	.006	
8.0	.116	.073	.043	.100	.063	.037	.069	.044	.026	.040	.026	.016	.013	.009	.005	
9.0	.111	.068	.038	.096	.059	.033	.066	.041	.024	.039	.024	.014	.013	.008	.005	
10.0	.107	.063	.034	.092	.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:2020-07-08

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	9.8	10.8	10.1	11.0	11.2	9.8	10.8	10.0	11.0	11.2
3H	9.7	10.6	10.0	10.8	11.0	9.6	10.5	9.9	10.8	11.0
4H	9.6	10.4	9.9	10.7	10.9	9.5	10.4	9.8	10.6	10.9
6H	9.5	10.3	9.8	10.6	10.8	9.4	10.2	9.8	10.5	10.8
8H	9.5	10.2	9.8	10.5	10.8	9.4	10.2	9.7	10.4	10.7
12H	9.4	10.1	9.7	10.4	10.7	9.4	10.1	9.7	10.4	10.7
4H 2H	9.6	10.4	9.9	10.7	10.9	9.5	10.4	9.8	10.6	10.9
3H	9.4	10.1	9.7	10.4	10.7	9.4	10.1	9.7	10.4	10.7
4H	9.3	10.0	9.7	10.3	10.6	9.3	9.9	9.6	10.2	10.6
6H	9.2	9.8	9.6	10.2	10.5	9.2	9.8	9.6	10.1	10.5
8H	9.2	9.7	9.6	10.1	10.5	9.1	9.7	9.5	10.0	10.4
12H	9.1	9.6	9.5	10.0	10.4	9.1	9.6	9.5	10.0	10.4
8H 4H	9.2	9.7	9.6	10.1	10.5	9.1	9.7	9.5	10.0	10.4
6H	9.1	9.5	9.5	9.9	10.4	9.0	9.5	9.5	9.9	10.3
8H	9.0	9.4	9.5	9.8	10.3	9.0	9.4	9.4	9.8	10.3
12H	9.0	9.3	9.5	9.8	10.2	8.9	9.2	9.4	9.7	10.2
12H 4H	9.1	9.6	9.5	10.0	10.4	9.1	9.6	9.5	10.0	10.4
6H	9.0	9.4	9.5	9.8	10.3	9.0	9.4	9.4	9.8	10.3
8H	9.0	9.3	9.5	9.8	10.2	8.9	9.2	9.4	9.7	10.2
Variations with the observer position at spacings:										
S = 1.0H	+ 3.5 / -15.2					+ 3.0 / -15.0				
1.5H	+ 5.9 / -13.7					+ 5.5 / -13.8				
2.0H	+ 9.0 / - 8.0					+ 7.0 / - 7.1				

CIE Pub.117, 32361 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 12.1)

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QC
Test Date:2020-07-08

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:

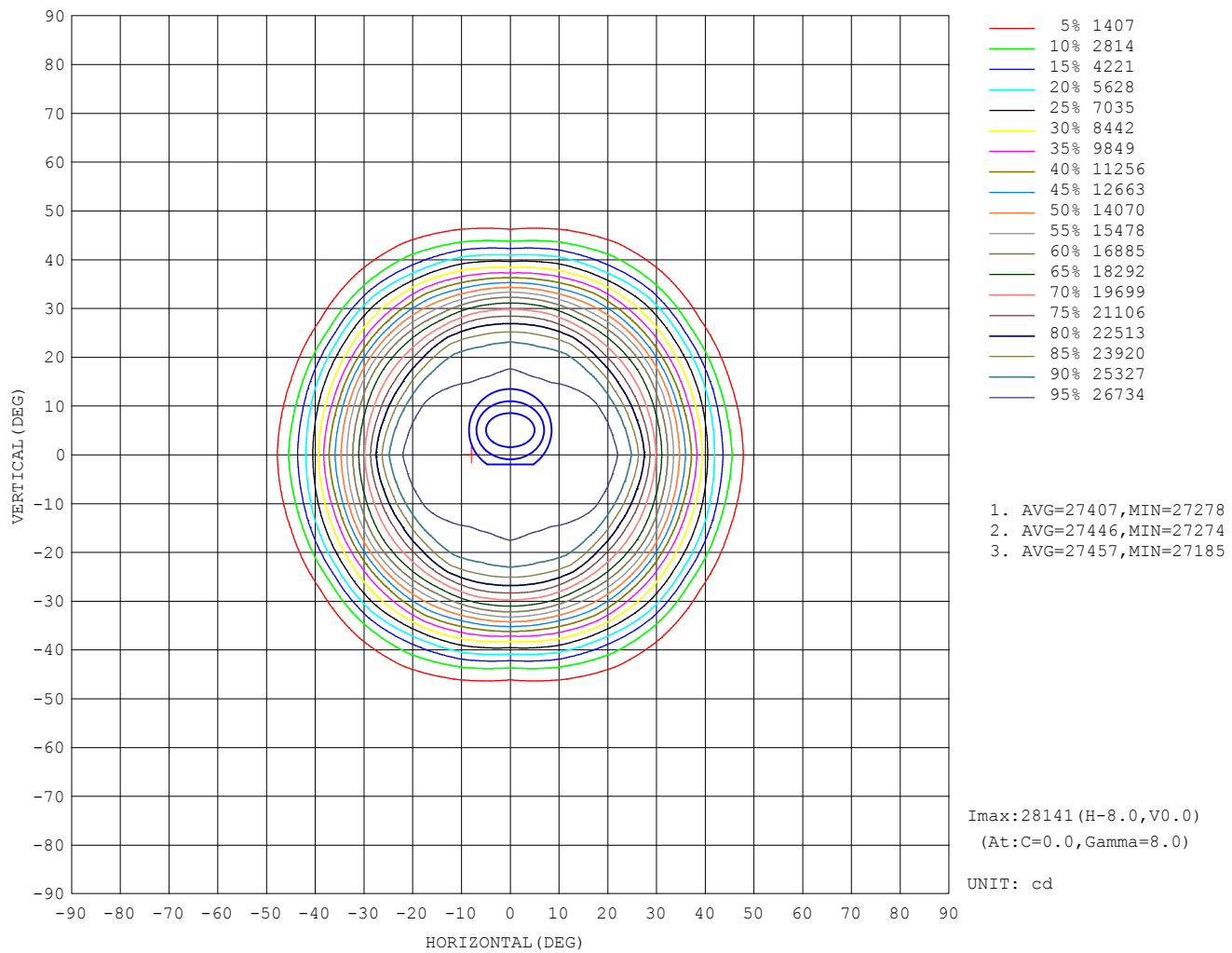
UTILIZATION FACTORS TABLE

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) $k(RI) \times RCR = 5$									
$k = 0.60$	86	79	75	85	79	75	84	79	75	71
0.80	94	87	84	93	87	83	91	86	83	79
1.00	98	93	89	97	92	88	96	92	88	84
1.25	102	97	94	101	96	93	99	95	92	88
1.50	105	100	97	104	100	96	102	98	95	91
2.00	108	104	101	107	103	100	104	101	98	93
2.50	110	106	103	108	105	102	105	102	100	94
3.00	111	108	105	109	106	104	106	104	102	95
4.00	113	111	108	111	109	107	107	106	104	97
5.00	115	112	110	112	110	109	108	107	105	98
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: 2020-07-08

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:

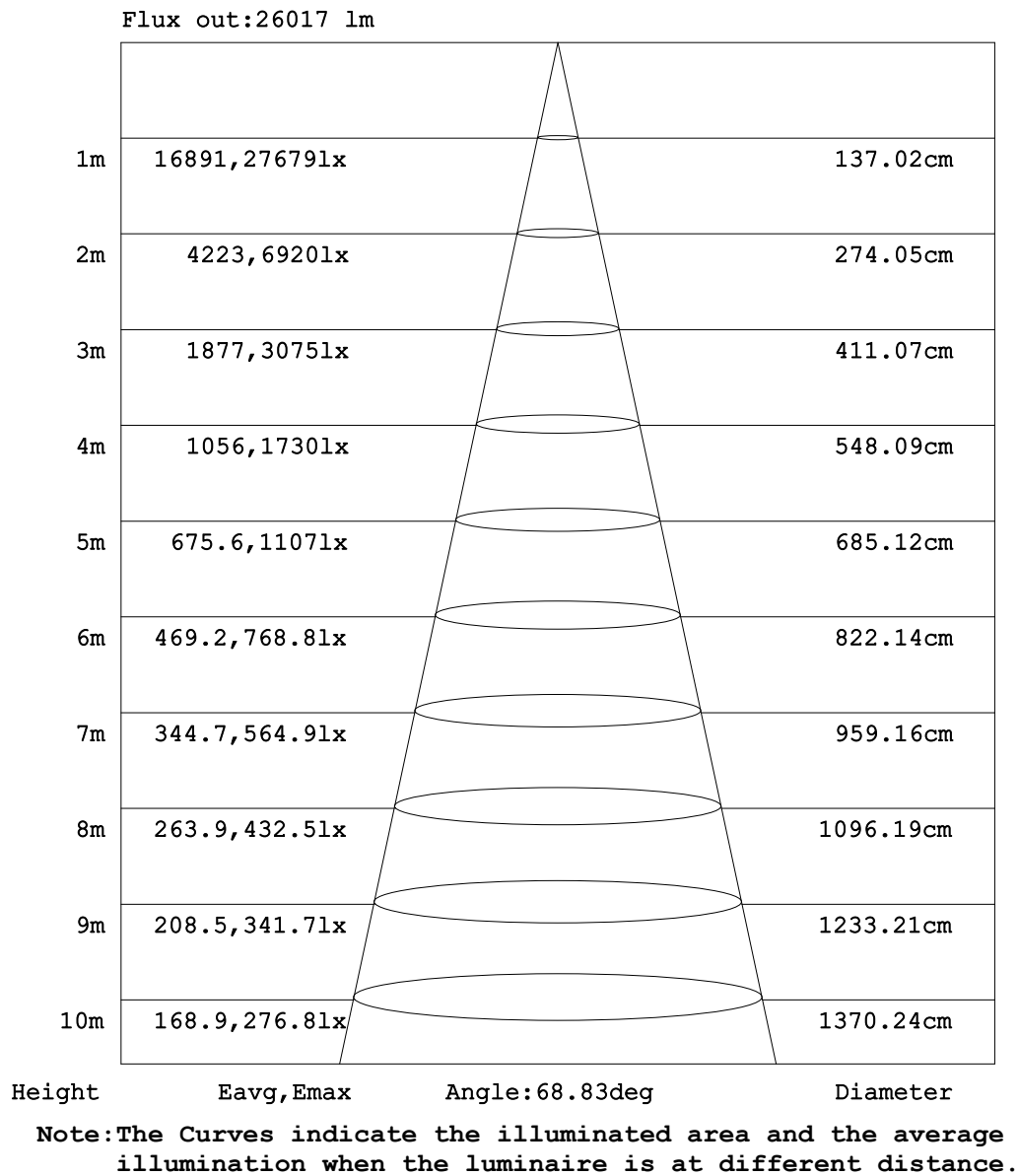
ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: QC
Test Date: 2020-07-08

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:

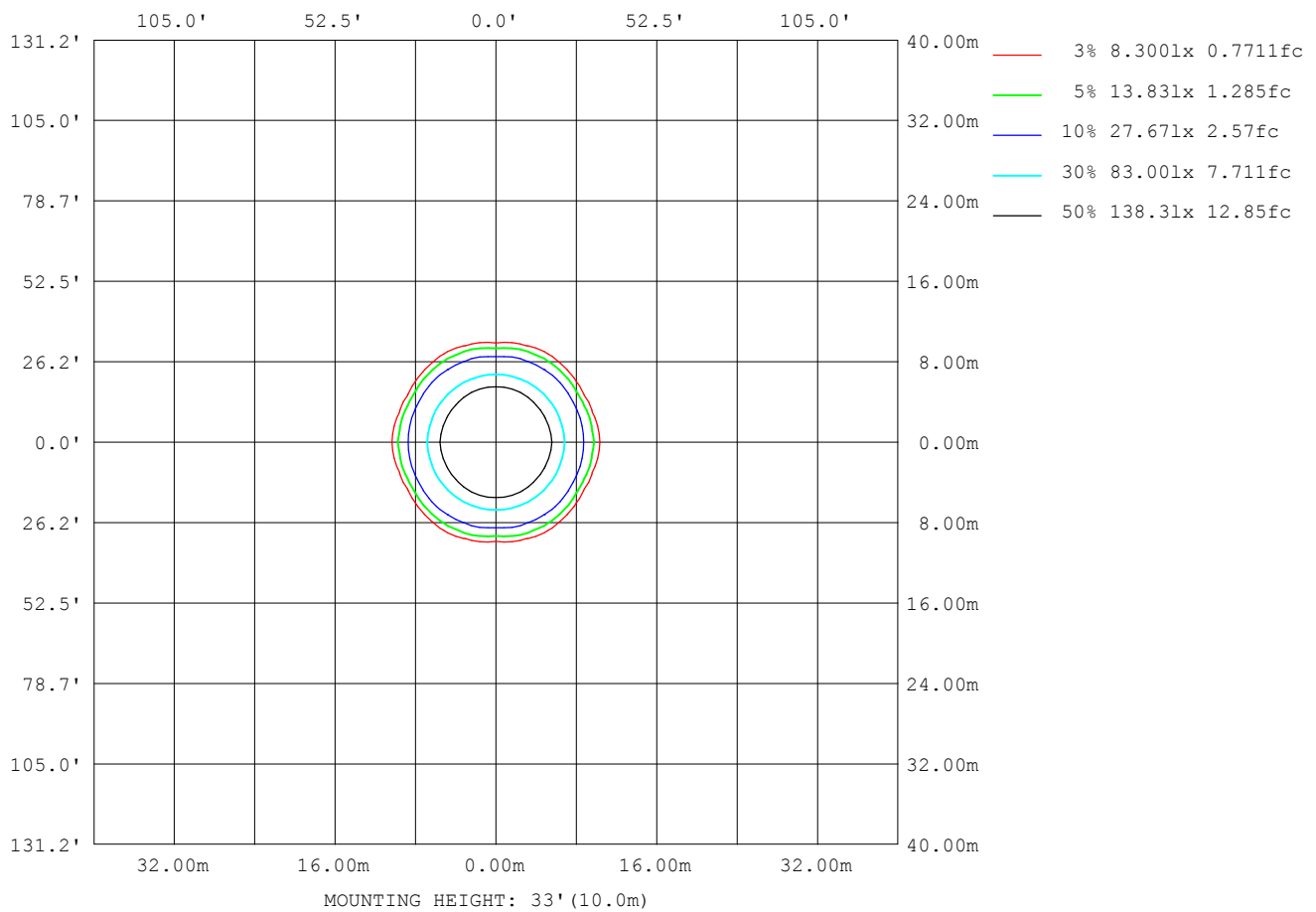
AAI Figure



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:QC
 Test Date:2020-07-08

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: 2020-07-08

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:0.8740A P:197.9W PF:0.9832 Freq:49.99Hz Lamp Flux:32361.2x1 lm		
NAME: H29APC-20-R360-70-40H-3803030R8	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ERVAN	SUR.:	Shielding Angle:

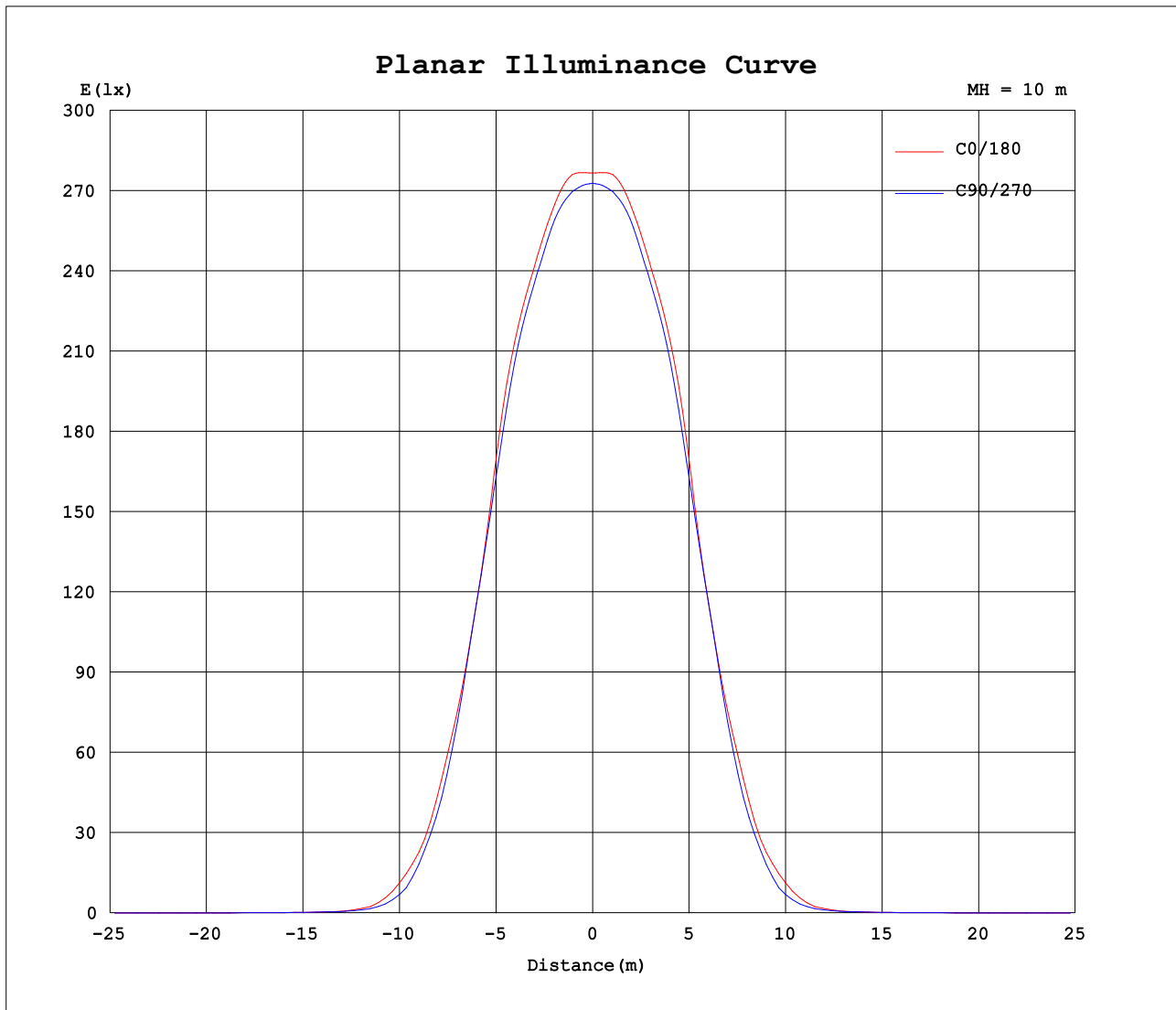
AvgL	cd/m2
L_0~180 (65) av	1896
L_0~180 (75) av	1519
L_0~180 (85) av	267
L_90~270 (65) av	1943
L_90~270 (75) av	1530
L_90~270 (85) av	195
L_45 (65) av	1960
L_45 (75) av	1552
L_45 (85) av	230

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:QC
 Test Date:2020-07-08

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: 2020-07-08

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	2766	2733	2731	2730	2729	2728	2728	2728	2729	2730	2731	2733	2766	2733	2731	2730	2729	2728	2728
5	2797	2760	2752	2744	2739	2738	2736	2738	2739	2744	2752	2760	2797	2760	2752	2744	2739	2738	2736
10	2809	2770	2754	2741	2738	2743	2747	2743	2738	2741	2754	2770	2809	2770	2754	2741	2738	2743	2747
15	2772	2741	2734	2714	2699	2696	2700	2696	2699	2714	2734	2741	2772	2741	2734	2714	2699	2696	2700
20	2718	2697	2685	2651	2628	2619	2637	2619	2628	2651	2685	2697	2718	2697	2685	2651	2628	2619	2637
25	2522	2442	2389	2393	2444	2407	2403	2407	2444	2393	2389	2442	2522	2442	2389	2393	2444	2407	2403
30	1954	1921	1920	1911	1916	1951	1946	1951	1916	1911	1920	1921	1954	1921	1920	1911	1916	1951	1946
35	1375	1341	1330	1327	1337	1304	1301	1304	1337	1327	1330	1341	1375	1341	1330	1327	1337	1304	1301
40	762	745	729	754	731	716	657	716	731	754	729	745	762	745	729	754	731	716	657
45	321	252	212	249	278	242	196	242	278	249	212	252	321	252	212	249	278	242	196
50	68.0	59.9	52.3	61.2	65.1	60.5	48.0	60.5	65.1	61.2	52.3	59.9	68.0	59.9	52.3	61.2	65.1	60.5	48.0
55	21.1	21.3	21.9	21.5	20.7	20.5	19.4	20.5	20.7	21.5	21.9	21.3	21.1	21.3	21.9	21.5	20.7	20.5	19.4
60	12.1	12.4	12.6	12.4	12.2	12.3	12.2	12.3	12.2	12.4	12.6	12.4	12.1	12.4	12.6	12.4	12.2	12.3	12.2
65	8.17	8.43	8.44	8.45	8.32	8.41	8.38	8.41	8.32	8.45	8.44	8.43	8.17	8.43	8.44	8.45	8.32	8.41	8.38
70	5.95	6.13	6.12	6.15	6.05	6.13	6.08	6.13	6.05	6.15	6.12	6.13	5.95	6.13	6.12	6.15	6.05	6.13	6.08
75	4.01	4.11	4.08	4.10	4.04	4.08	4.04	4.08	4.04	4.10	4.08	4.11	4.01	4.11	4.08	4.10	4.04	4.08	4.04
80	1.96	2.00	1.98	1.96	1.91	1.91	1.88	1.91	1.91	1.96	1.98	2.00	1.96	2.00	1.98	1.96	1.91	1.91	1.88
85	0.24	0.23	0.22	0.20	0.19	0.18	0.17	0.18	0.19	0.20	0.22	0.23	0.24	0.23	0.22	0.20	0.19	0.18	0.17
90	0.10	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.10	0.09	0.09	0.09	0.09	0.09	0.09
95	0.20	0.18	0.16	0.17	0.18	0.17	0.15	0.17	0.18	0.17	0.16	0.18	0.20	0.18	0.16	0.17	0.18	0.17	0.15
100	0.46	0.43	0.42	0.43	0.41	0.40	0.38	0.40	0.41	0.43	0.42	0.43	0.46	0.43	0.42	0.43	0.41	0.40	0.38
105	0.89	0.86	0.84	0.84	0.83	0.82	0.80	0.82	0.83	0.84	0.84	0.86	0.89	0.86	0.84	0.84	0.83	0.82	0.80
110	1.51	1.48	1.47	1.46	1.44	1.44	1.44	1.44	1.44	1.46	1.47	1.48	1.51	1.48	1.47	1.46	1.44	1.44	1.44
115	2.33	2.28	2.26	2.25	2.24	2.25	2.24	2.25	2.24	2.25	2.26	2.28	2.33	2.28	2.26	2.25	2.24	2.25	2.24
120	3.32	3.27	3.26	3.24	3.21	3.21	3.21	3.21	3.21	3.24	3.26	3.27	3.32	3.27	3.26	3.24	3.21	3.21	3.21
125	4.48	4.41	4.39	4.37	4.35	4.34	4.33	4.34	4.35	4.37	4.39	4.41	4.48	4.41	4.39	4.37	4.35	4.34	4.33
130	5.83	5.75	5.73	5.71	5.69	5.68	5.67	5.68	5.69	5.71	5.73	5.75	5.83	5.75	5.73	5.71	5.69	5.68	5.67
135	7.35	7.25	7.24	7.22	7.20	7.18	7.19	7.18	7.20	7.22	7.24	7.25	7.35	7.25	7.24	7.22	7.20	7.18	7.19
140	8.95	8.82	8.81	8.80	8.78	8.78	8.79	8.78	8.78	8.80	8.81	8.82	8.95	8.82	8.81	8.80	8.78	8.78	8.79
145	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
150	12.0	11.9	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.9	12.0	11.9	11.8	11.8	11.8	11.8	11.8
155	13.4	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.4	13.2	13.2	13.2	13.2	13.2	13.2
160	14.8	14.6	14.6	14.6	14.6	14.6	14.5	14.6	14.6	14.6	14.6	14.6	14.8	14.6	14.6	14.6	14.6	14.6	14.5
165	16.2	16.0	16.0	15.9	15.9	15.9	15.9	15.9	15.9	15.9	16.0	16.0	16.2	16.0	16.0	15.9	15.9	15.9	15.9
170	17.4	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.4	17.2	17.2	17.2	17.2	17.2	17.2
175	18.3	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.3	18.1	18.1	18.1	18.1	18.1	18.1
180	18.7	18.6	18.5	18.5	18.5	18.4	18.4	18.4	18.5	18.5	18.5	18.6	18.7	18.6	18.5	18.5	18.5	18.4	18.4

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QC
Test Date:2020-07-08

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	2728	2729	2730	2731	2733														
5	2738	2739	2744	2752	2760														
10	2743	2738	2741	2754	2770														
15	2696	2699	2714	2734	2741														
20	2619	2628	2651	2685	2697														
25	2407	2444	2393	2389	2442														
30	1951	1916	1911	1920	1921														
35	1304	1337	1327	1330	1341														
40	716	731	754	729	745														
45	242	278	249	212	252														
50	60.5	65.1	61.2	52.3	59.9														
55	20.5	20.7	21.5	21.9	21.3														
60	12.3	12.2	12.4	12.6	12.4														
65	8.41	8.32	8.45	8.44	8.43														
70	6.13	6.05	6.15	6.12	6.13														
75	4.08	4.04	4.10	4.08	4.11														
80	1.91	1.91	1.96	1.98	2.00														
85	0.18	0.19	0.20	0.22	0.23														
90	0.09	0.09	0.09	0.09	0.09														
95	0.17	0.18	0.17	0.16	0.18														
100	0.40	0.41	0.43	0.42	0.43														
105	0.82	0.83	0.84	0.84	0.86														
110	1.44	1.44	1.46	1.47	1.48														
115	2.25	2.24	2.25	2.26	2.28														
120	3.21	3.21	3.24	3.26	3.27														
125	4.34	4.35	4.37	4.39	4.41														
130	5.68	5.69	5.71	5.73	5.75														
135	7.18	7.20	7.22	7.24	7.25														
140	8.78	8.78	8.80	8.81	8.82														
145	10.4	10.4	10.4	10.4	10.4														
150	11.8	11.8	11.8	11.8	11.9														
155	13.2	13.2	13.2	13.2	13.2														
160	14.6	14.6	14.6	14.6	14.6														
165	15.9	15.9	15.9	16.0	16.0														
170	17.2	17.2	17.2	17.2	17.2														
175	18.1	18.1	18.1	18.1	18.1														
180	18.4	18.5	18.5	18.5	18.6														

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: QC
 Test Date: 2020-07-08

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	27661	27327	27310	27304	27291	27283	27282	27283	27291	27304
3.0	27793	27441	27401	27362	27331	27314	27301	27314	27331	27362
6.0	28057	27670	27556	27465	27422	27411	27409	27411	27422	27465
9.0	28133	27732	27570	27446	27412	27448	27473	27448	27412	27446
12.0	27961	27606	27487	27312	27269	27306	27349	27306	27269	27312
15.0	27719	27407	27343	27142	26991	26960	27005	26960	26991	27142
18.0	27409	27203	27169	26841	26592	26531	26691	26531	26592	26841
21.0	26983	26766	26572	26269	26086	25966	26128	25966	26086	26269
24.0	25935	25300	24819	24770	25073	24730	24757	24730	25073	24770
27.0	23177	22320	21926	21953	22596	22466	22371	22466	22596	21953
30.0	19538	19207	19200	19109	19161	19512	19456	19512	19161	19109
33.0	16058	15977	16113	15968	15646	15752	15890	15752	15646	15968
36.0	12614	12060	11881	11879	12212	11729	11561	11729	12212	11879
39.0	8924	8435	8273	8486	8535	8235	7641	8235	8535	8486
42.0	5534	5514	5170	5498	5139	5134	4442	5134	5139	5498
45.0	3206	2519	2117	2487	2781	2418	1958	2418	2781	2487
48.0	1303	1046	895.1	1089	1221	1040	805.3	1040	1221	1089
51.0	515.4	472.8	411.9	480.3	501.2	462.9	380.6	462.9	501.2	480.3
54.0	240.6	246.4	245.9	248.2	239.3	232.7	219.4	232.7	239.3	248.2
57.0	159.6	166.4	178.0	165.7	161.3	162.0	159.3	162.0	161.3	165.7
60.0	120.6	123.6	125.9	123.8	122.2	123.2	121.9	123.2	122.2	123.8
63.0	94.47	96.96	96.98	97.18	96.11	96.69	96.04	96.69	96.11	97.18
66.0	76.48	78.95	78.97	79.13	77.84	78.77	78.41	78.77	77.84	79.13
69.0	63.31	65.26	65.16	65.40	64.40	65.21	64.75	65.21	64.40	65.40
72.0	51.90	53.41	53.28	53.55	52.74	53.31	52.82	53.31	52.74	53.55
75.0	40.10	41.12	40.80	40.96	40.44	40.80	40.38	40.80	40.44	40.96
78.0	27.81	28.40	28.10	28.08	27.58	27.77	27.40	27.77	27.58	28.08
81.0	15.52	15.84	15.58	15.43	15.01	14.96	14.71	14.96	15.01	15.43
84.0	4.965	4.936	4.849	4.573	4.385	4.253	4.152	4.253	4.385	4.573
87.0	0.8554	0.8208	0.8265	0.8211	0.8266	0.8101	0.8063	0.8101	0.8266	0.8211
90.0	0.9887	0.9156	0.8926	0.9080	0.9159	0.8898	0.8654	0.8898	0.9159	0.9080
93.0	1.434	1.273	1.197	1.268	1.276	1.233	1.136	1.233	1.276	1.268
96.0	2.403	2.142	1.948	2.075	2.089	1.985	1.792	1.985	2.089	2.075
99.0	3.903	3.710	3.531	3.628	3.495	3.376	3.173	3.376	3.495	3.628
102.0	6.063	5.804	5.629	5.684	5.594	5.438	5.228	5.438	5.594	5.684
105.0	8.883	8.588	8.405	8.414	8.309	8.173	8.023	8.173	8.309	8.414
108.0	12.38	12.15	12.00	11.95	11.71	11.69	11.63	11.69	11.71	11.95
111.0	16.53	16.26	16.11	16.02	15.84	15.90	15.85	15.90	15.84	16.02
114.0	21.48	21.08	20.83	20.75	20.68	20.72	20.65	20.72	20.68	20.75
117.0	27.11	26.66	26.41	26.29	26.15	26.16	26.10	26.16	26.15	26.29
120.0	33.23	32.73	32.57	32.35	32.14	32.09	32.06	32.09	32.14	32.35
123.0	39.91	39.36	39.19	38.94	38.71	38.62	38.57	38.62	38.71	38.94
126.0	47.32	46.66	46.48	46.24	46.04	45.86	45.85	45.86	46.04	46.24
129.0	55.47	54.71	54.48	54.27	54.09	53.93	53.88	53.93	54.09	54.27
132.0	64.27	63.39	63.20	62.99	62.78	62.64	62.62	62.64	62.78	62.99
135.0	73.52	72.51	72.41	72.17	72.00	71.84	71.90	71.84	72.00	72.17
138.0	83.05	81.91	81.82	81.65	81.49	81.39	81.49	81.39	81.49	81.65
141.0	92.63	91.36	91.28	91.10	90.99	91.03	91.11	91.03	90.99	91.10
144.0	102.2	100.8	100.7	100.5	100.5	100.5	100.6	100.5	100.5	100.5
147.0	111.3	109.9	109.8	109.7	109.7	109.7	109.7	109.7	109.7	109.7
150.0	120.2	118.6	118.4	118.4	118.4	118.4	118.3	118.4	118.4	118.4
153.0	128.4	126.7	126.6	126.5	126.5	126.4	126.3	126.4	126.5	126.5
156.0	136.7	134.9	134.8	134.7	134.7	134.6	134.5	134.6	134.7	134.7
159.0	145.0	143.2	143.1	143.0	142.9	142.8	142.8	142.8	142.9	143.0
162.0	153.5	151.5	151.4	151.3	151.1	151.2	151.2	151.2	151.1	151.3
165.0	161.7	159.7	159.6	159.4	159.3	159.4	159.4	159.4	159.3	159.4
168.0	169.4	167.4	167.3	167.1	167.0	167.1	167.0	167.1	167.0	167.1
171.0	176.1	174.1	174.1	173.8	173.7	173.7	173.6	173.7	173.7	173.8
174.0	182.1	180.1	180.1	179.8	179.6	179.5	179.4	179.5	179.6	179.8
177.0	185.5	183.6	183.4	183.1	182.9	182.7	182.4	182.7	182.9	183.1
180.0	187.5	185.5	185.1	184.8	184.6	184.2	183.8	184.2	184.6	184.8
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	27310	27327	27661	27327	27310	27304	27291	27283	27282	27283
3.0	27401	27441	27793	27441	27401	27362	27331	27314	27301	27314
6.0	27556	27670	28057	27670	27556	27465	27422	27411	27409	27411
9.0	27570	27732	28133	27732	27570	27446	27412	27448	27473	27448
12.0	27487	27606	27961	27606	27487	27312	27269	27306	27349	27306
15.0	27343	27407	27719	27407	27343	27142	26991	26960	27005	26960
18.0	27169	27203	27409	27203	27169	26841	26592	26531	26691	26531
21.0	26572	26766	26983	26766	26572	26269	26086	25966	26128	25966
24.0	24819	25300	25935	25300	24819	24770	25073	24730	24757	24730
27.0	21926	22320	23177	22320	21926	21953	22596	22466	22371	22466
30.0	19200	19207	19538	19207	19200	19109	19161	19512	19456	19512

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: QC
 Test Date: 2020-07-08

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	16113	15977	16058	15977	16113	15968	15646	15752	15890	15752
36.0	11881	12060	12614	12060	11881	11879	12212	11729	11561	11729
39.0	8273	8435	8924	8435	8273	8486	8535	8235	7641	8235
42.0	5170	5514	5534	5514	5170	5498	5139	5134	4442	5134
45.0	2117	2519	3206	2519	2117	2487	2781	2418	1958	2418
48.0	895.1	1046	1303	1046	895.1	1089	1221	1040	805.3	1040
51.0	411.9	472.8	515.4	472.8	411.9	480.3	501.2	462.9	380.6	462.9
54.0	245.9	246.4	240.6	246.4	245.9	248.2	239.3	232.7	219.4	232.7
57.0	178.0	166.4	159.6	166.4	178.0	165.7	161.3	162.0	159.3	162.0
60.0	125.9	123.6	120.6	123.6	125.9	123.8	122.2	123.2	121.9	123.2
63.0	96.98	96.96	94.47	96.96	96.98	97.18	96.11	96.69	96.04	96.69
66.0	78.97	78.95	76.48	78.95	78.97	79.13	77.84	78.77	78.41	78.77
69.0	65.16	65.26	63.31	65.26	65.16	65.40	64.40	65.21	64.75	65.21
72.0	53.28	53.41	51.90	53.41	53.28	53.55	52.74	53.31	52.82	53.31
75.0	40.80	41.12	40.10	41.12	40.80	40.96	40.44	40.80	40.38	40.80
78.0	28.10	28.40	27.81	28.40	28.10	28.08	27.58	27.77	27.40	27.77
81.0	15.58	15.84	15.52	15.84	15.58	15.43	15.01	14.96	14.71	14.96
84.0	4.849	4.936	4.965	4.936	4.849	4.573	4.385	4.253	4.152	4.253
87.0	0.8265	0.8208	0.8554	0.8208	0.8265	0.8211	0.8266	0.8101	0.8063	0.8101
90.0	0.8926	0.9156	0.9887	0.9156	0.8926	0.9080	0.9159	0.8898	0.8654	0.8898
93.0	1.197	1.273	1.434	1.273	1.197	1.268	1.276	1.233	1.136	1.233
96.0	1.948	2.142	2.403	2.142	1.948	2.075	2.089	1.985	1.792	1.985
99.0	3.531	3.710	3.903	3.710	3.531	3.628	3.495	3.376	3.173	3.376
102.0	5.629	5.804	6.063	5.804	5.629	5.684	5.594	5.438	5.228	5.438
105.0	8.405	8.588	8.883	8.588	8.405	8.414	8.309	8.173	8.023	8.173
108.0	12.00	12.15	12.38	12.15	12.00	11.95	11.71	11.69	11.63	11.69
111.0	16.11	16.26	16.53	16.26	16.11	16.02	15.84	15.90	15.85	15.90
114.0	20.83	21.08	21.48	21.08	20.83	20.75	20.68	20.72	20.65	20.72
117.0	26.41	26.66	27.11	26.66	26.41	26.29	26.15	26.16	26.10	26.16
120.0	32.57	32.73	33.23	32.73	32.57	32.35	32.14	32.09	32.06	32.09
123.0	39.19	39.36	39.91	39.36	39.19	38.94	38.71	38.62	38.57	38.62
126.0	46.48	46.66	47.32	46.66	46.48	46.24	46.04	45.86	45.85	45.86
129.0	54.48	54.71	55.47	54.71	54.48	54.27	54.09	53.93	53.88	53.93
132.0	63.20	63.39	64.27	63.39	63.20	62.99	62.78	62.64	62.62	62.64
135.0	72.41	72.51	73.52	72.51	72.41	72.17	72.00	71.84	71.90	71.84
138.0	81.82	81.91	83.05	81.91	81.82	81.65	81.49	81.39	81.49	81.39
141.0	91.28	91.36	92.63	91.36	91.28	91.10	90.99	91.03	91.11	91.03
144.0	100.7	100.8	102.2	100.8	100.7	100.5	100.5	100.5	100.6	100.5
147.0	109.8	109.9	111.3	109.9	109.8	109.7	109.7	109.7	109.7	109.7
150.0	118.4	118.6	120.2	118.6	118.4	118.4	118.4	118.4	118.3	118.4
153.0	126.6	126.7	128.4	126.7	126.6	126.5	126.5	126.4	126.3	126.4
156.0	134.8	134.9	136.7	134.9	134.8	134.7	134.7	134.6	134.5	134.6
159.0	143.1	143.2	145.0	143.2	143.1	143.0	142.9	142.8	142.8	142.8
162.0	151.4	151.5	153.5	151.5	151.4	151.3	151.1	151.2	151.2	151.2
165.0	159.6	159.7	161.7	159.7	159.6	159.4	159.3	159.4	159.4	159.4
168.0	167.3	167.4	169.4	167.4	167.3	167.1	167.0	167.1	167.0	167.1
171.0	174.1	174.1	176.1	174.1	174.1	173.8	173.7	173.7	173.6	173.7
174.0	180.1	180.1	182.1	180.1	180.1	179.8	179.6	179.5	179.4	179.5
177.0	183.4	183.6	185.5	183.6	183.4	183.1	182.9	182.7	182.4	182.7
180.0	185.1	185.5	187.5	185.5	185.1	184.8	184.6	184.2	183.8	184.2
G/C	300.0	315.0	330.0	345.0						
0.0	27291	27304	27310	27327						
3.0	27331	27362	27401	27441						
6.0	27422	27465	27556	27670						
9.0	27412	27446	27570	27732						
12.0	27269	27312	27487	27606						
15.0	26991	27142	27343	27407						
18.0	26592	26841	27169	27203						
21.0	26086	26269	26572	26766						
24.0	25073	24770	24819	25300						
27.0	22596	21953	21926	22320						
30.0	19161	19109	19200	19207						
33.0	15646	15968	16113	15977						
36.0	12212	11879	11881	12060						
39.0	8535	8486	8273	8435						
42.0	5139	5498	5170	5514						
45.0	2781	2487	2117	2519						
48.0	1221	1089	895.1	1046						
51.0	501.2	480.3	411.9	472.8						
54.0	239.3	248.2	245.9	246.4						
57.0	161.3	165.7	178.0	166.4						
60.0	122.2	123.8	125.9	123.6						
63.0	96.11	97.18	96.98	96.96						
66.0	77.84	79.13	78.97	78.95						

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: QC
 Test Date: 2020-07-08

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	64.40	65.40	65.16	65.26
72.0	52.74	53.55	53.28	53.41
75.0	40.44	40.96	40.80	41.12
78.0	27.58	28.08	28.10	28.40
81.0	15.01	15.43	15.58	15.84
84.0	4.385	4.573	4.849	4.936
87.0	0.8266	0.8211	0.8265	0.8208
90.0	0.9159	0.9080	0.8926	0.9156
93.0	1.276	1.268	1.197	1.273
96.0	2.089	2.075	1.948	2.142
99.0	3.495	3.628	3.531	3.710
102.0	5.594	5.684	5.629	5.804
105.0	8.309	8.414	8.405	8.588
108.0	11.71	11.95	12.00	12.15
111.0	15.84	16.02	16.11	16.26
114.0	20.68	20.75	20.83	21.08
117.0	26.15	26.29	26.41	26.66
120.0	32.14	32.35	32.57	32.73
123.0	38.71	38.94	39.19	39.36
126.0	46.04	46.24	46.48	46.66
129.0	54.09	54.27	54.48	54.71
132.0	62.78	62.99	63.20	63.39
135.0	72.00	72.17	72.41	72.51
138.0	81.49	81.65	81.82	81.91
141.0	90.99	91.10	91.28	91.36
144.0	100.5	100.5	100.7	100.8
147.0	109.7	109.7	109.8	109.9
150.0	118.4	118.4	118.4	118.6
153.0	126.5	126.5	126.6	126.7
156.0	134.7	134.7	134.8	134.9
159.0	142.9	143.0	143.1	143.2
162.0	151.1	151.3	151.4	151.5
165.0	159.3	159.4	159.6	159.7
168.0	167.0	167.1	167.3	167.4
171.0	173.7	173.8	174.1	174.1
174.0	179.6	179.8	180.1	180.1
177.0	182.9	183.1	183.4	183.6
180.0	184.6	184.8	185.1	185.5

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: QC
 Test Date: 2020-07-08

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: