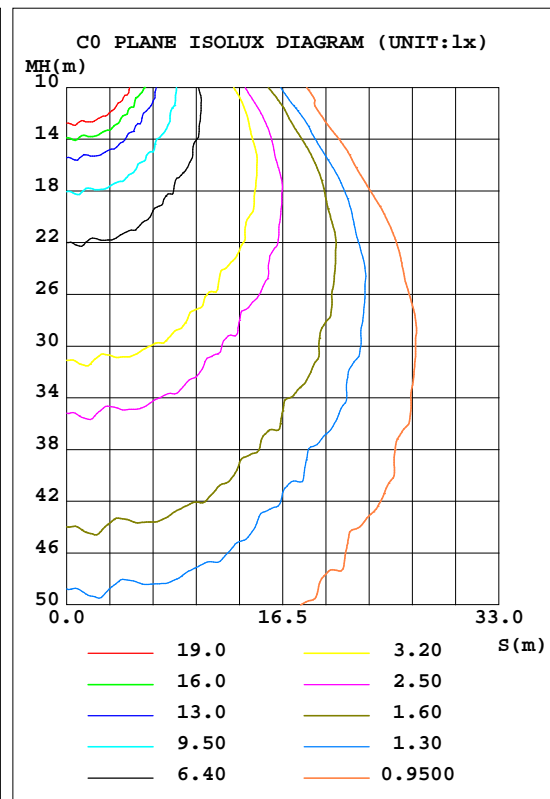
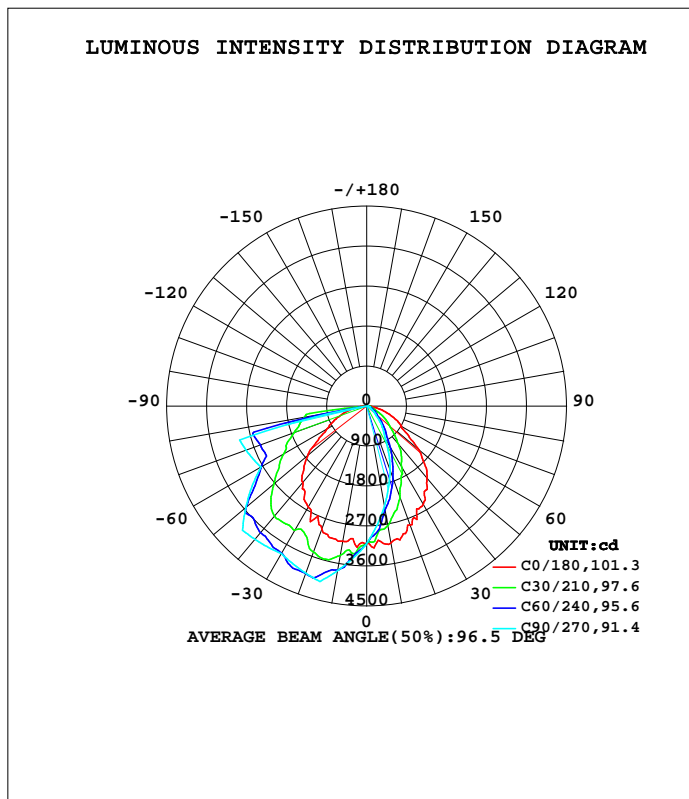


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.6V I:0.7146A P:84.57W PF:0.9899 Freq:49.99Hz Lamp Flux:11503x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:4000K 70Ra	DIM.:	SERIAL No.:1
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 105.74 lm/W			
MODEL		I <sub>max</sub> (cd)	4212	S/MH(C0/180)	1.27
NOMINAL POWER(W)	90	LOR(%)	77.7	S/MH(C90/270)	1.83
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	8942.6	η UP, DN(C0-180)	0.0,16.6
NOMINAL FLUX(lm)	11503	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0,61.1
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120	η down(%)	77.7	CIBSE SHR MAX	1.30



H(β) Range:-90 - 90DEG  
 H(β) Interval: 1.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:12 April 2019

V(B) Range:-75 - 75DEG  
 V(B) Interval: 5.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:13.600m [K=1.0000]  
 Remarks:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum,lamp
10	3135	2556	2299	2486	3089	3501	3756	3573	0- 10	293.8	293.8	3.29,2.55
20	2845	1941	1544	1947	2951	3948	4005	3772	10- 20	845.8	1140	12.7,9.91
30	2550	1285	828.8	1328	2627	3524	3838	3447	20- 30	1209	2349	26.3,20.4
40	2115	770.7	482.0	810.4	2238	3532	3914	3491	30- 40	1443	3792	42.4,33
50	1534	451.9	232.0	486.8	1731	3085	3551	2960	40- 50	1528	5320	59.5,46.2
60	908.7	225.3	78.98	246.4	1041	2575	2750	2560	50- 60	1346	6666	74.5,58
70	537.5	105.5	37.61	117.5	637.6	2303	2893	2234	60- 70	1162	7828	87.5,68.1
80	193.4	27.52	0	33.02	274.3	1642	0	1626	70- 80	981.9	8810	98.5,76.6
90	32.18	0	0	0	15.23	0	0	0	80- 90	132.7	8943	100,77.7
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 4563.4 lm

%lum = 51.0%  
%lamp = 39.7%

Conical surface Flux(120deg): 6666 lm

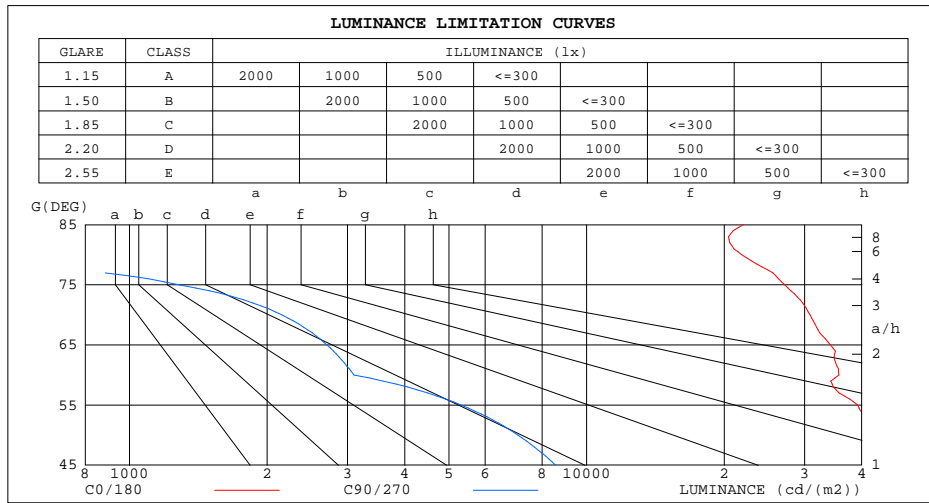
%lum = 74.5%  
%lamp = 58.0%

H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:12 April 2019

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:13.600m [K=1.0000]  
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:119.6V I:0.7146A P:84.57W PF:0.9899 Freq:49.99Hz Lamp Flux:11503x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:4000K 70Ra	DIM.:	SERIAL No.:1
MFR.:	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	22041	0
80	21835	0
75	27123	1282
70	30814	2156
65	34171	2705
60	35636	3097
55	39181	5316
50	46802	7078
45	51201	8557

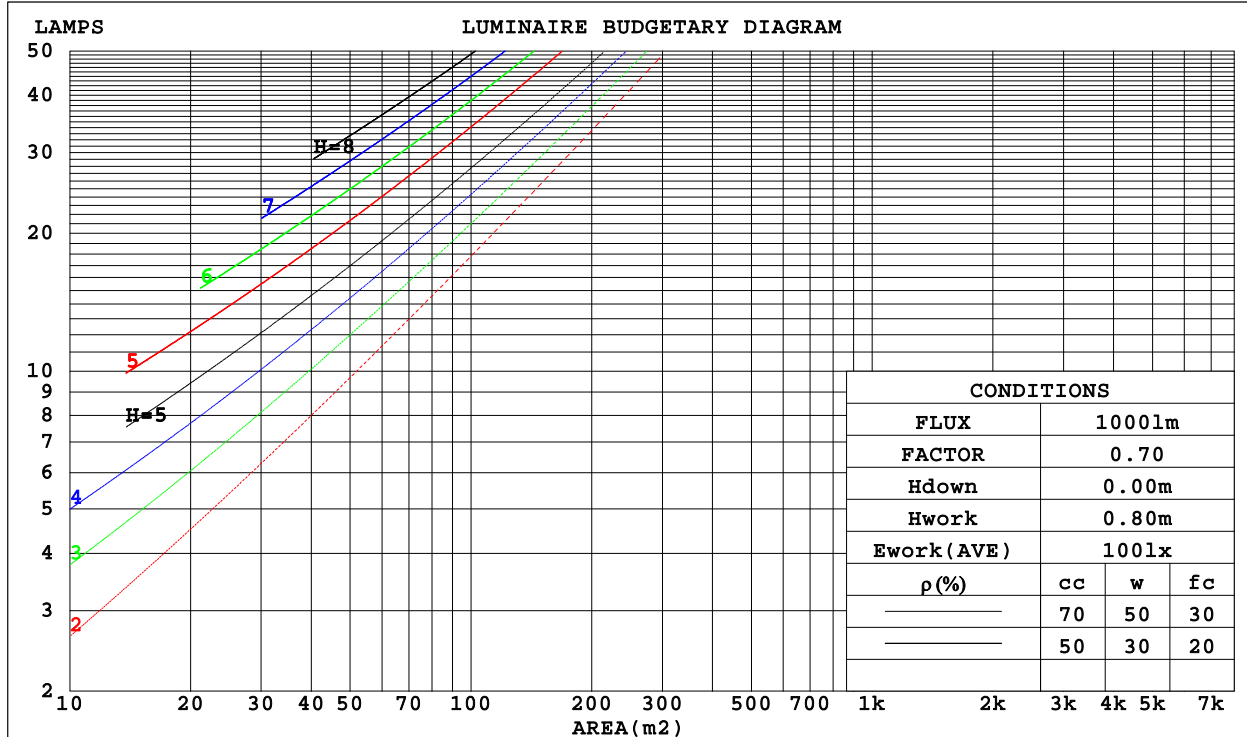
H( $\beta$ ) Range:-90 - 90DEG  
 H( $\beta$ ) Interval: 1.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:12 April 2019

V(B) Range:-75 - 75DEG  
 V(B) Interval: 5.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:13.600m [K=1.0000]  
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:119.6V I:0.7146A P:84.57W PF:0.9899 Freq:49.99Hz Lamp Flux:11503x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:4000K 70Ra	DIM.:	SERIAL No.:1
MFR.:	SUR.:	Shielding Angle:

$\rho_{cc}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	.93	.93	.93	.90	.90	.90	.86	.86	.86	.83	.83	.83	.79	.79	.79	.78
1.0	.80	.77	.73	.78	.75	.72	.75	.72	.70	.72	.70	.68	.69	.67	.66	.64
2.0	.69	.64	.59	.68	.63	.58	.65	.61	.57	.62	.59	.55	.60	.57	.54	.52
3.0	.60	.54	.48	.59	.53	.48	.57	.51	.47	.55	.50	.46	.53	.49	.45	.44
4.0	.53	.46	.41	.52	.46	.41	.50	.45	.40	.48	.43	.39	.47	.42	.39	.37
5.0	.48	.40	.35	.47	.40	.35	.45	.39	.34	.43	.38	.34	.42	.37	.34	.32
6.0	.43	.36	.31	.42	.35	.30	.41	.35	.30	.39	.34	.30	.38	.33	.30	.28
7.0	.39	.32	.27	.38	.32	.27	.37	.31	.27	.36	.30	.26	.35	.30	.26	.25
8.0	.35	.29	.24	.35	.28	.24	.34	.28	.24	.33	.28	.24	.32	.27	.24	.22
9.0	.33	.26	.22	.32	.26	.22	.31	.26	.22	.30	.25	.21	.30	.25	.21	.20
10.0	.30	.24	.20	.30	.24	.20	.29	.23	.20	.28	.23	.19	.27	.23	.19	.18



H( $\beta$ ) Range:-90 - 90DEG  
 H( $\beta$ ) Interval: 1.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:12 April 2019

V(B) Range:-75 - 75DEG  
 V(B) Interval: 5.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:13.600m [K=1.0000]  
 Remarks:

WEC AND CCEC

Test:U:119.6V I:0.7146A P:84.57W PF:0.9899 Freq:49.99Hz Lamp Flux:11503x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:4000K 70Ra	DIM.:	SERIAL No.:1
MFR.:	SUR.:	Shielding Angle:

$\rho_{cc}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.253	.144	.046	.248	.141	.045	.238	.136	.044	.228	.131	.042	.219	.127	.041	
2.0	.238	.130	.040	.233	.128	.040	.224	.124	.039	.215	.121	.038	.207	.117	.037	
3.0	.218	.116	.035	.214	.115	.034	.206	.112	.034	.198	.109	.033	.191	.106	.033	
4.0	.200	.104	.031	.196	.103	.030	.189	.100	.030	.182	.098	.030	.176	.096	.029	
5.0	.184	.094	.027	.180	.093	.027	.174	.091	.027	.168	.089	.026	.162	.087	.026	
6.0	.169	.085	.024	.166	.084	.024	.161	.082	.024	.155	.081	.024	.150	.079	.024	
7.0	.157	.078	.022	.154	.077	.022	.149	.076	.022	.145	.074	.022	.140	.073	.021	
8.0	.146	.072	.020	.144	.071	.020	.139	.070	.020	.135	.068	.020	.131	.067	.020	
9.0	.137	.066	.018	.135	.066	.018	.131	.065	.018	.127	.064	.018	.123	.063	.018	
10.0	.128	.062	.017	.127	.061	.017	.123	.060	.017	.119	.059	.017	.116	.058	.017	

$\rho_{cc}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0																
1.0	.141	.121	.103	.121	.104	.089	.083	.072	.062	.048	.041	.036	.015	.013	.012	
2.0	.135	.102	.075	.116	.088	.065	.079	.061	.045	.046	.036	.026	.015	.011	.009	
3.0	.129	.089	.057	.111	.077	.049	.076	.053	.034	.044	.031	.020	.014	.010	.007	
4.0	.123	.079	.044	.106	.068	.039	.073	.047	.027	.042	.028	.016	.014	.009	.005	
5.0	.117	.071	.036	.101	.061	.031	.070	.043	.022	.040	.025	.013	.013	.008	.004	
6.0	.112	.064	.030	.096	.056	.026	.066	.039	.018	.038	.023	.011	.012	.007	.004	
7.0	.106	.059	.025	.091	.051	.022	.063	.036	.016	.037	.021	.009	.012	.007	.003	
8.0	.101	.054	.022	.087	.047	.019	.060	.033	.014	.035	.019	.008	.011	.006	.003	
9.0	.096	.050	.019	.083	.044	.017	.057	.031	.012	.033	.018	.007	.011	.006	.002	
10.0	.092	.047	.017	.079	.041	.015	.055	.029	.011	.032	.017	.006	.010	.006	.002	

H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:12 April 2019

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:13.600m [K=1.0000]  
Remarks:

## UGR(Unified Glare Rating) Table

Test:U:119.6V I:0.7146A P:84.57W PF:0.9899 Freq:49.99Hz Lamp Flux:11503x1 lm										
NAME:			TYPE:			WEIGHT:				
SPEC.:4000K 70Ra			DIM.:			SERIAL No.:1				
MFR.:			SUR.:			Shielding Angle:				
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	13.1	14.6	13.4	14.9	15.1	4.8	6.4	5.1	6.6	6.8
3H	14.1	15.6	14.4	15.8	16.1	4.9	6.3	5.2	6.6	6.8
4H	14.6	15.9	14.9	16.2	16.5	4.8	6.2	5.1	6.5	6.7
6H	14.9	16.2	15.2	16.5	16.7	4.7	6.0	5.1	6.3	6.6
8H	15.0	16.3	15.3	16.5	16.8	4.7	5.9	5.0	6.2	6.5
12H	15.1	16.3	15.5	16.6	16.9	4.6	5.8	5.0	6.1	6.4
4H 2H	12.9	14.3	13.2	14.5	14.8	5.8	7.1	6.1	7.4	7.6
3H	14.0	15.2	14.3	15.5	15.8	6.0	7.2	6.3	7.5	7.8
4H	14.5	15.6	14.8	15.9	16.2	6.0	7.1	6.3	7.4	7.7
6H	14.9	15.9	15.3	16.2	16.6	5.9	6.9	6.3	7.2	7.6
8H	15.0	16.0	15.4	16.3	16.7	5.8	6.8	6.2	7.1	7.5
12H	15.2	16.1	15.6	16.4	16.9	5.8	6.6	6.2	7.0	7.4
8H 4H	14.4	15.3	14.8	15.6	16.0	6.3	7.2	6.7	7.6	8.0
6H	14.8	15.6	15.3	16.0	16.4	6.2	7.0	6.7	7.4	7.8
8H	15.1	15.7	15.5	16.2	16.6	6.2	6.9	6.6	7.3	7.8
12H	15.3	15.9	15.8	16.4	16.8	6.2	6.7	6.6	7.2	7.7
12H 4H	14.3	15.2	14.7	15.5	16.0	6.4	7.2	6.8	7.6	8.0
6H	14.8	15.5	15.2	15.9	16.3	6.3	7.0	6.8	7.4	7.9
8H	15.0	15.6	15.5	16.1	16.5	6.3	6.9	6.8	7.3	7.8
Variations with the observer position at spacings:										
S = 1.0H	+ 1.4 / - 0.9					+ 1.1 / - 1.5				
1.5H	+ 2.3 / - 2.6					+ 1.2 / - 1.0				
2.0H	+ 3.4 / - 3.8					+ 1.2 / - 2.3				

CIE Pub.117, 11503 lm Total Lamp Luminous Flux Correct ( $8\log(F/F_0) = 8.5$ )

H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:12 April 2019

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:13.600m [K=1.0000]  
Remarks:

## UTILIZATION FACTORS TABLE

Test:U:119.6V I:0.7146A P:84.57W PF:0.9899 Freq:49.99Hz Lamp Flux:11503x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:4000K 70Ra	DIM.:	SERIAL No.:1
MFR.:	SUR.:	Shielding Angle:

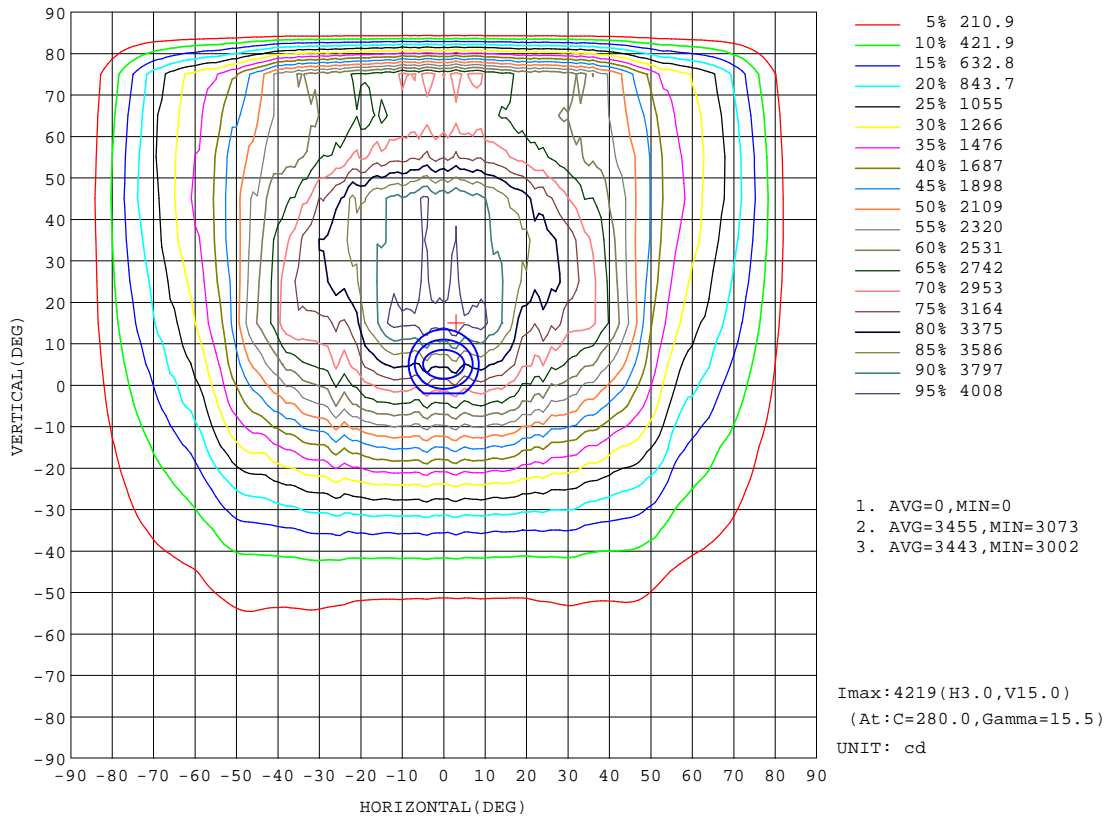
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	44	35	29	43	35	29	43	34	29	24
0.80	52	42	36	51	42	36	49	41	36	31
1.00	58	49	43	57	48	43	55	50	42	37
1.25	63	55	49	62	54	49	60	53	48	42
1.50	67	59	54	66	59	53	64	57	52	46
2.00	73	66	60	71	65	60	68	63	59	52
2.50	76	70	65	74	68	64	71	66	62	56
3.00	79	73	68	77	72	68	74	69	66	59
4.00	82	77	73	80	76	72	77	73	70	63
5.00	84	80	77	82	79	76	79	76	73	66
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:12 April 2019

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:13.600m [K=1.0000]  
Remarks:

ISOCANDELA DIAGRAM

Test:U:119.6V I:0.7146A P:84.57W PF:0.9899 Freq:49.99Hz Lamp Flux:11503x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:4000K 70Ra	DIM.:	SERIAL No.:1
MFR.:	SUR.:	Shielding Angle:



H( $\beta$ ) Range:-90 - 90DEG  
 H( $\beta$ ) Interval: 1.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:12 April 2019

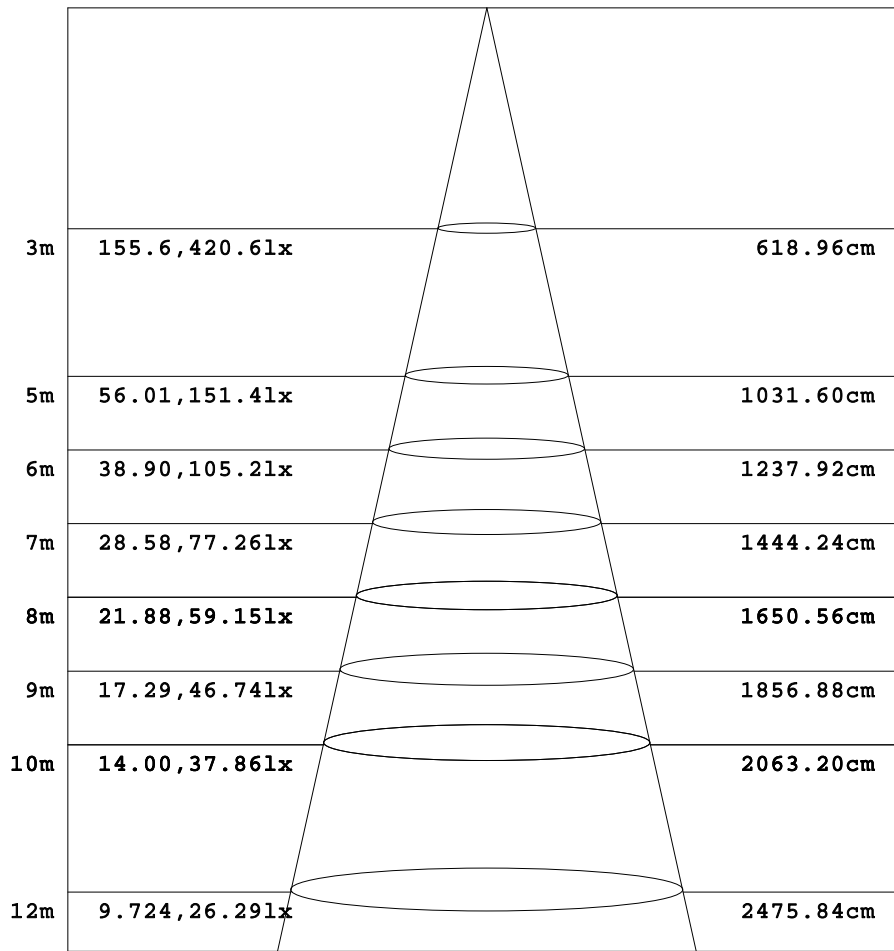
V(B) Range:-75 - 75DEG  
 V(B) Interval: 5.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:13.600m [K=1.0000]  
 Remarks:



AAI Figure

Test:U:119.6V I:0.7146A P:84.57W PF:0.9899 Freq:49.99Hz Lamp Flux:11503x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:4000K 70Ra	DIM.:	SERIAL No.:1
MFR.:	SUR.:	Shielding Angle:

Flux out:4717 lm



Height                      Eavg, Emax                      Angle:91.78deg                      Diameter

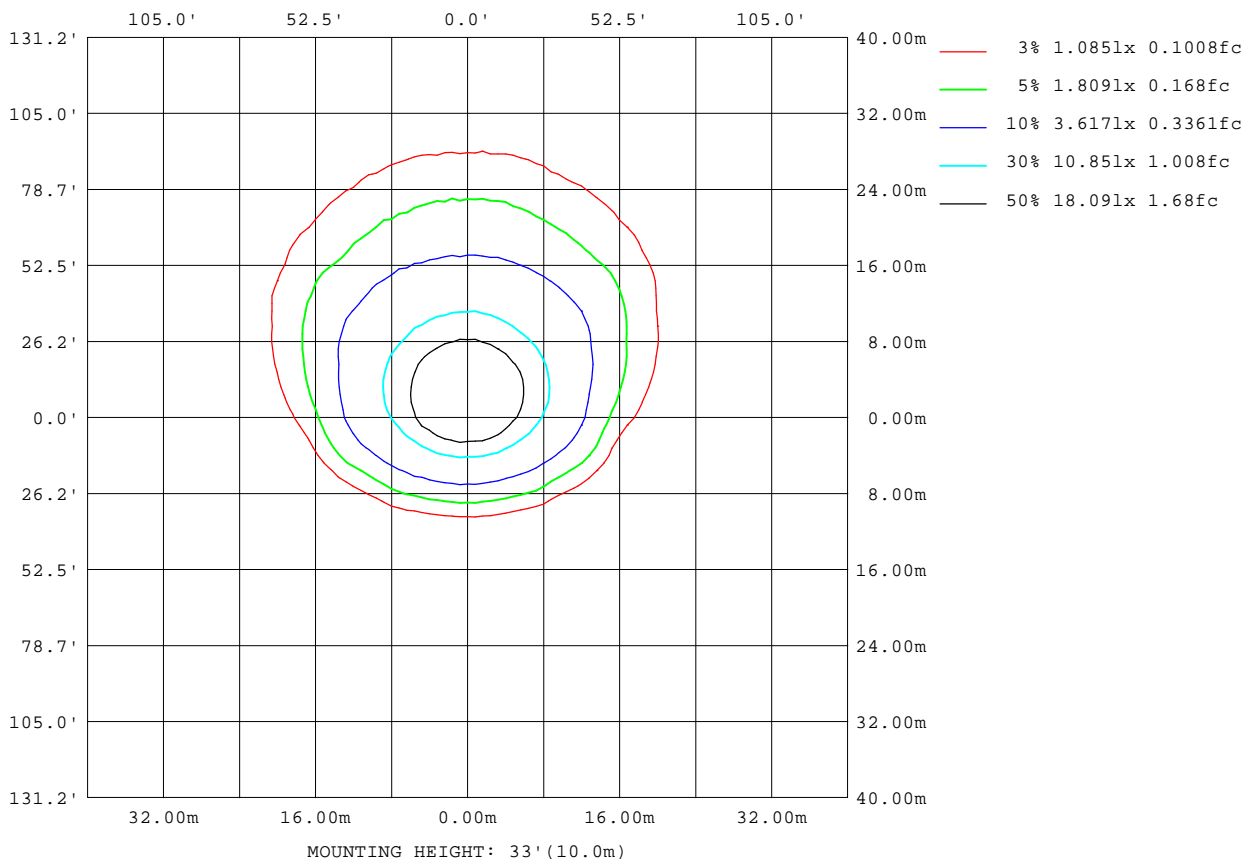
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range:-90 - 90DEG  
H(β) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:12 April 2019

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:13.600m [K=1.0000]  
Remarks:

ISOLUX DIAGRAM

Test:U:119.6V I:0.7146A P:84.57W PF:0.9899 Freq:49.99Hz Lamp Flux:11503x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:4000K 70Ra	DIM.:	SERIAL No.:1
MFR.:	SUR.:	Shielding Angle:



H( $\beta$ ) Range:-90 - 90DEG  
 H( $\beta$ ) Interval: 1.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:12 April 2019

V(B) Range:-75 - 75DEG  
 V(B) Interval: 5.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:13.600m [K=1.0000]  
 Remarks:

## LED Avg.L Report

Test:U:119.6V I:0.7146A P:84.57W PF:0.9899 Freq:49.99Hz Lamp Flux:11503x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:4000K 70Ra	DIM.:	SERIAL No.:1
MFR.:	SUR.:	Shielding Angle:

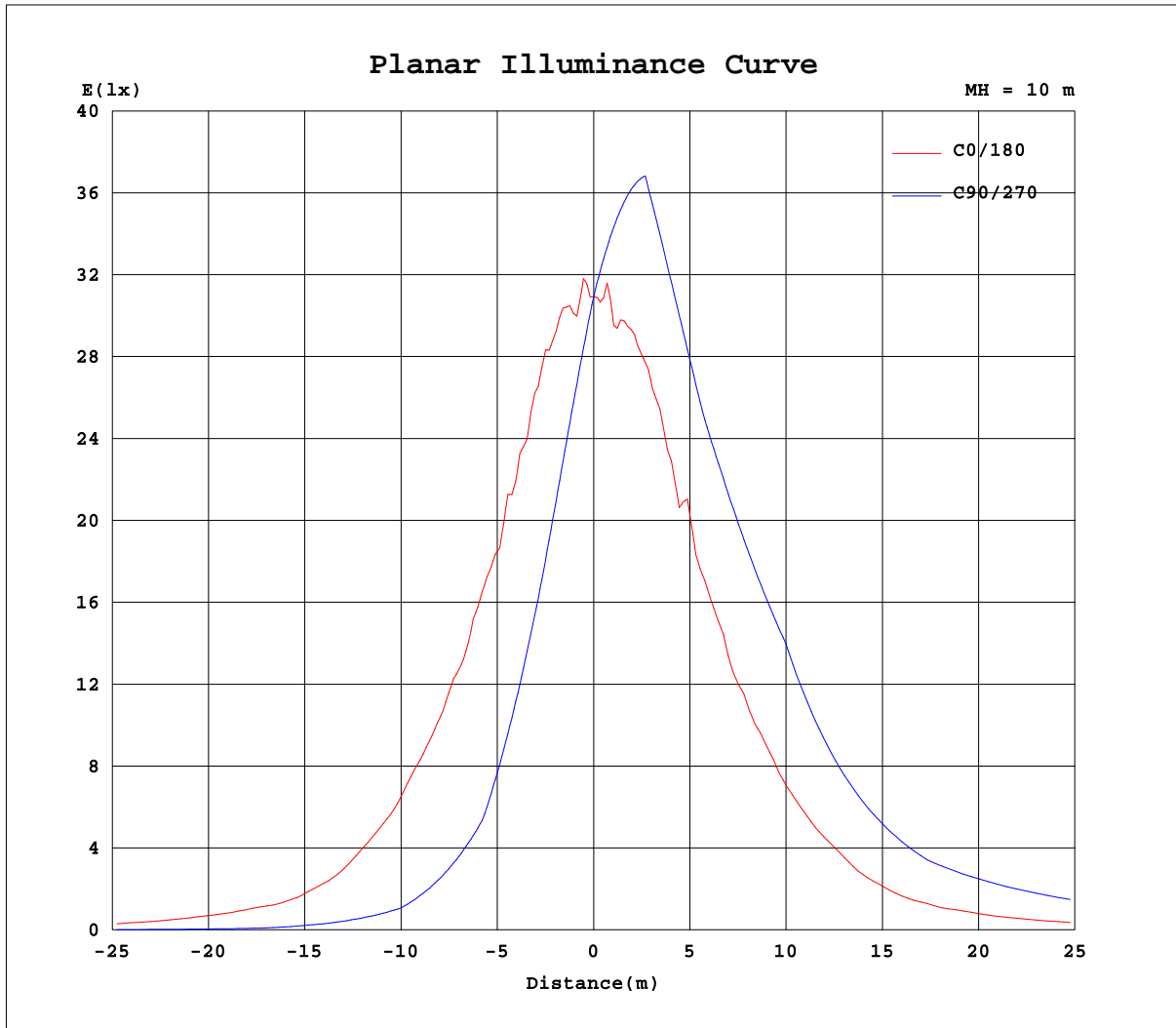
AvgL	cd/m2
L_0~180(65)av	36319
L_0~180(75)av	30996
L_0~180(85)av	25922
L_90~270(65)av	66803
L_90~270(75)av	112928
L_90~270(85)av	0
L_45(65)av	59487
L_45(75)av	84484
L_45(85)av	0

Standard: GB/T 29293-2012

H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:12 April 2019

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:13.600m [K=1.0000]  
Remarks:

## Planar Illuminance Curve



H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:12 April 2019

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:13.600m [K=1.0000]  
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:119.6V I:0.7146A P:84.57W PF:0.9899 Freq:49.99Hz Lamp Flux:11503x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:4000K 70Ra	DIM.:	SERIAL No.:1
MFR.:	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
0	3094	3094	3094	3094	3094	3094	3094	3094	3094	3094	3094	3094	3094	3094	3094	3094	3094	3094	3094
5	3034	3002	2973	2946	2923	2902	2885	2870	2863	2863	2867	2859	2830	2804	2769	2732	2705	2699	2696
10	3135	3064	2995	2928	2864	2803	2736	2670	2610	2556	2488	2426	2376	2382	2406	2403	2360	2308	2299
15	3050	2948	2852	2762	2678	2569	2460	2374	2302	2247	2197	2137	2082	2022	1962	1976	1991	1932	1901
20	2845	2710	2576	2446	2341	2270	2192	2099	2015	1941	1835	1770	1738	1687	1640	1583	1610	1582	1544
25	2672	2528	2403	2291	2117	1958	1847	1732	1642	1606	1539	1472	1378	1340	1293	1241	1222	1222	1186
30	2550	2368	2194	2026	1858	1695	1572	1511	1372	1285	1194	1140	1065	980	943	890	848	853	829
35	2314	2116	1927	1765	1634	1502	1364	1237	1109	1033	908	813	776	738	704	691	662	675	655
40	2115	1911	1723	1550	1399	1231	1101	1012	888	771	717	650	600	568	531	517	493	495	482
45	1846	1657	1477	1278	1132	1007	865	728	680	630	552	496	435	394	363	340	322	315	309
50	1534	1361	1207	1081	944	791	661	577	505	452	398	327	291	265	255	246	240	236	232
55	1146	988	902	810	702	597	524	440	356	289	277	254	226	200	185	173	165	159	156
60	909	730	599	499	432	415	364	298	258	225	206	190	162	136	116	101	90.7	82.2	79.0
65	737	562	439	340	284	245	221	216	192	160	140	124	107	90.4	77.0	69.0	64.0	59.9	58.3
70	537	389	294	230	176	151	141	133	122	106	94.4	85.9	73.0	60.0	49.9	44.1	40.9	38.5	37.6
75	358	236	173	133	117	99.1	83.2	81.5	81.0	67.8	56.0	46.5	36.6	27.7	21.9	18.7	17.5	17.0	16.9
80	193	126	97.7	84.5	78.5	73.8	60.7	50.9	41.9	27.5	18.0	11.2	6.70	3.83	2.13	1.12	0.50	0.13	0.00
85	98.0	56.3	51.1	63.8	54.9	20.4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	32.2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

H(β) Range:-90 - 90DEG  
H(β) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:12 April 2019

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:13.600m [K=1.0000]  
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:119.6V I:0.7146A P:84.57W PF:0.9899 Freq:49.99Hz Lamp Flux:11503x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:4000K 70Ra	DIM.:	SERIAL No.:1
MFR.:	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C(DEG) γ (DEG)	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185
0	3094	3094	3094	3094	3094	3094	3094	3094	3094	3094	3094	3094	3094	3094	3094	3094	3094	3094	3094
5	2696	2700	2703	2707	2720	2747	2776	2818	2865	2914	2950	2966	2985	3007	3032	3059	3089	3122	3154
10	2298	2300	2331	2392	2452	2455	2429	2442	2486	2559	2630	2693	2758	2820	2885	2952	3021	3089	3146
15	1899	1929	2016	2031	2008	2056	2125	2185	2257	2340	2421	2494	2577	2668	2766	2868	2972	3078	3151
20	1544	1603	1639	1629	1686	1738	1813	1886	1947	2039	2141	2233	2338	2458	2575	2691	2817	2951	3017
25	1191	1256	1246	1295	1350	1420	1479	1568	1649	1724	1798	1920	2043	2140	2253	2449	2638	2811	2855
30	840	877	896	947	1006	1075	1173	1249	1328	1428	1514	1720	1853	1932	2080	2257	2440	2627	2722
35	666	677	694	720	743	806	846	941	1035	1216	1289	1413	1561	1729	1905	2076	2247	2438	2612
40	493	499	520	541	583	626	671	741	810	916	1055	1190	1310	1460	1651	1831	2026	2238	2434
45	317	323	346	368	409	452	511	581	653	725	782	931	1080	1227	1353	1569	1785	2003	2193
50	238	240	251	260	277	301	350	418	487	544	625	703	845	1026	1212	1374	1542	1731	1871
55	160	166	176	188	207	238	267	299	317	388	468	561	664	806	932	1079	1197	1344	1483
60	82.3	90.8	103	117	138	168	200	225	246	279	323	419	490	532	632	732	861	1041	1186
65	60.1	64.5	70.2	77.6	90.6	110	132	151	174	212	253	277	310	349	400	519	658	829	986
70	38.9	41.9	45.6	51.2	61.5	76.4	92.5	103	117	146	165	177	189	213	271	353	474	638	838
75	17.7	18.8	20.6	24.0	30.4	39.8	51.5	62.1	78.6	98.2	99.9	100	118	142	166	220	310	460	663
80	0.13	0.54	1.25	2.43	4.43	7.63	12.9	20.9	33.0	48.3	59.8	70.9	85.2	94.3	107	127	168	274	463
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23.1	64.4	77.0	68.9	74.7	132	267
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.2	0.00

H(β) Range:-90 - 90DEG  
 H(β) Interval: 1.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:12 April 2019

V(B) Range:-75 - 75DEG  
 V(B) Interval: 5.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:13.600m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:119.6V I:0.7146A P:84.57W PF:0.9899 Freq:49.99Hz Lamp Flux:11503x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:4000K 70Ra	DIM.:	SERIAL No.:1
MFR.:	SUR.:	Shielding Angle:

Table--3

UNIT: cd

C(DEG) γ (DEG)	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280
0	3094	3094	3094	3094	3094	3094	3094	3094	3094	3094	3094	3094	3094	3094	3094	3094	3094	3094	3094
5	3189	3225	3262	3300	3338	3376	3389	3385	3377	3373	3379	3382	3396	3413	3424	3426	3425	3427	3426
10	3202	3257	3311	3362	3408	3450	3479	3501	3554	3634	3751	3799	3770	3739	3744	3763	3756	3766	3827
15	3226	3305	3391	3479	3570	3666	3737	3787	3834	3882	3918	3985	4136	4160	4082	4096	4088	4135	4201
20	3097	3193	3294	3393	3495	3619	3773	3948	4047	4052	4014	4007	3996	4138	4067	4010	4005	4105	4108
25	2886	2913	3008	3117	3232	3415	3620	3710	3812	3906	4000	3936	3934	3932	4059	3921	3921	4068	3946
30	2818	2915	3009	3134	3219	3239	3376	3524	3720	3765	3830	3942	3845	3828	4008	3840	3838	4004	3805
35	2783	2925	3048	3133	3221	3296	3439	3466	3630	3814	3773	3793	3874	3856	3928	3870	3876	4006	3838
40	2667	2928	3109	3162	3230	3334	3447	3532	3542	3658	3719	3786	3864	3825	3905	3929	3914	3989	3853
45	2401	2635	2744	2896	3054	3205	3320	3374	3403	3472	3601	3724	3791	3842	3899	3992	3952	3973	3853
50	2077	2311	2434	2571	2731	2871	2963	3085	3217	3336	3536	3442	3515	3550	3552	3619	3551	3562	3532
55	1646	1824	1980	2227	2407	2623	2702	2786	2909	2998	3053	3106	3174	3159	3161	3216	3151	3146	3175
60	1365	1537	1738	1947	2160	2335	2563	2575	2610	2736	2739	2834	2779	2775	2757	2787	2750	2742	2818
65	1171	1330	1520	1720	1980	2135	2286	2421	2370	2450	2520	2640	2659	2732	2791	2847	2821	2803	2852
70	1012	1192	1382	1565	1738	1974	2064	2303	2366	2472	2551	2655	2701	2797	2893	2917	2893	2865	2886
75	861	1038	1246	1401	1562	1778	1936	2182	2416	2498	2624	2693	2757	2860	3005	2988	2964	2922	2926
80	713	923	1119	1286	1423	1550	1753	1642	1418	1091	795	538	348	197	91.3	22.3	0.00	21.8	88.0
85	465	711	838	398	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

H(β) Range:-90 - 90DEG  
H(β) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:12 April 2019

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:13.600m [K=1.0000]  
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:119.6V I:0.7146A P:84.57W PF:0.9899 Freq:49.99Hz Lamp Flux:11503x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:4000K 70Ra	DIM.:	SERIAL No.:1
MFR.:	SUR.:	Shielding Angle:

Table--4

UNIT: cd

C(DEG) γ (DEG)	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355				
0	3094	3094	3094	3094	3094	3094	3094	3094	3094	3094	3094	3094	3094	3094	3094				
5	3444	3469	3483	3478	3471	3436	3385	3335	3288	3247	3207	3169	3132	3097	3064				
10	3848	3796	3699	3615	3595	3584	3573	3540	3505	3468	3424	3363	3304	3246	3190				
15	4099	3978	3965	3958	3934	3868	3755	3661	3584	3494	3412	3340	3257	3182	3112				
20	3967	4005	4030	4035	3953	3921	3772	3625	3493	3325	3167	3061	2989	2940	2892				
25	3909	3922	3947	3875	3805	3710	3536	3318	3226	3143	3079	3059	3027	2899	2778				
30	3822	3897	3811	3786	3760	3541	3447	3331	3370	3248	3181	3029	2875	2753	2646				
35	3822	3807	3797	3820	3699	3552	3508	3398	3319	3152	3056	2967	2815	2646	2480				
40	3835	3759	3677	3628	3514	3508	3491	3386	3228	3094	3011	2917	2704	2492	2295				
45	3795	3689	3576	3473	3404	3314	3261	3147	3056	2873	2713	2586	2445	2213	2012				
50	3488	3406	3354	3245	3184	3064	2960	2883	2734	2530	2330	2152	1963	1752	1621				
55	3117	3044	3002	2980	2877	2811	2735	2645	2445	2198	1993	1805	1602	1434	1271				
60	2758	2711	2688	2670	2638	2561	2560	2408	2205	1992	1738	1562	1373	1216	1048				
65	2729	2617	2572	2510	2420	2403	2373	2217	2031	1759	1572	1402	1252	1084	909				
70	2760	2674	2612	2554	2488	2371	2234	2099	1849	1599	1451	1285	1107	927	741				
75	2808	2716	2694	2598	2542	2347	2132	1888	1629	1463	1345	1171	1005	776	545				
80	195	340	548	793	1085	1382	1626	1695	1455	1326	1204	1040	826	581	349				
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	370	727	571	338	175			
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				

H(β) Range:-90 - 90DEG  
H(β) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:12 April 2019

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:13.600m [K=1.0000]  
Remarks: