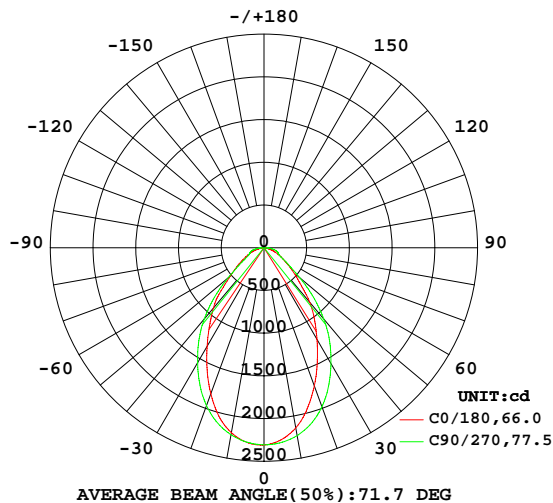


LUMINAIRE PHOTOMETRIC TEST REPORT

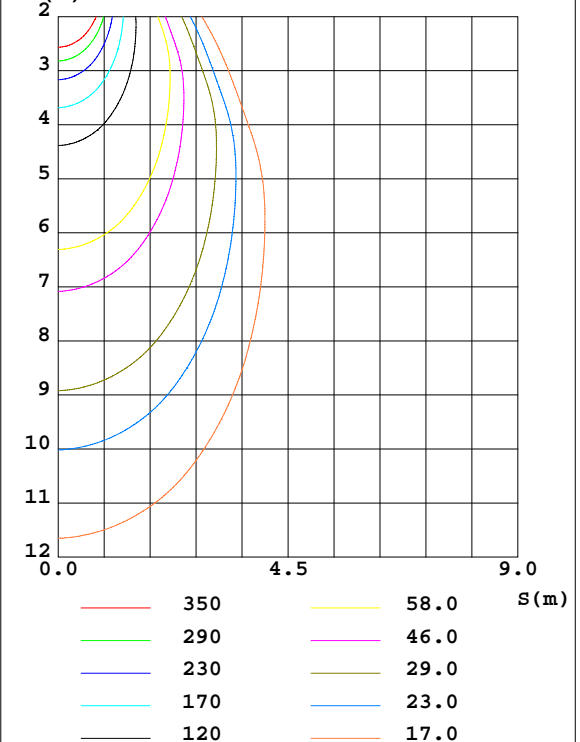
Test:U:229.95V I:0.1785A P:39.735W PF:0.9682 Freq:49.70Hz Lamp Flux:3566.59x1 lm					
NAME: LICON-C		TYPE:		WEIGHT:	
SPEC.:		DIM.: 1204*44*75		SERIAL No.:	
MFR.: NEXOL		SUR.:1.198*0.035		Shielding Angle:	

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 89.76 lm/W
MODEL		Imax(cd)	2310	S/MH(C0/180)	0.90	
NOMINAL POWER(W)	40	LOR(%)	100.0	S/MH(C90/270)	1.06	
RATED VOLTAGE(V)	230.0	TOTAL FLUX(lm)	3566.6	η UP,DN(C0-180)	0.0,49.9	
NOMINAL FLUX(lm)	3566.59	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,50.1	
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.00	
TEST VOLTAGE(V)	230.0	η down(%)	100.0	CIBSE SHR MAX	1.10	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:2020-12-28

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.406.10
 Humidity:65.0%
 Test Distance:9.370m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

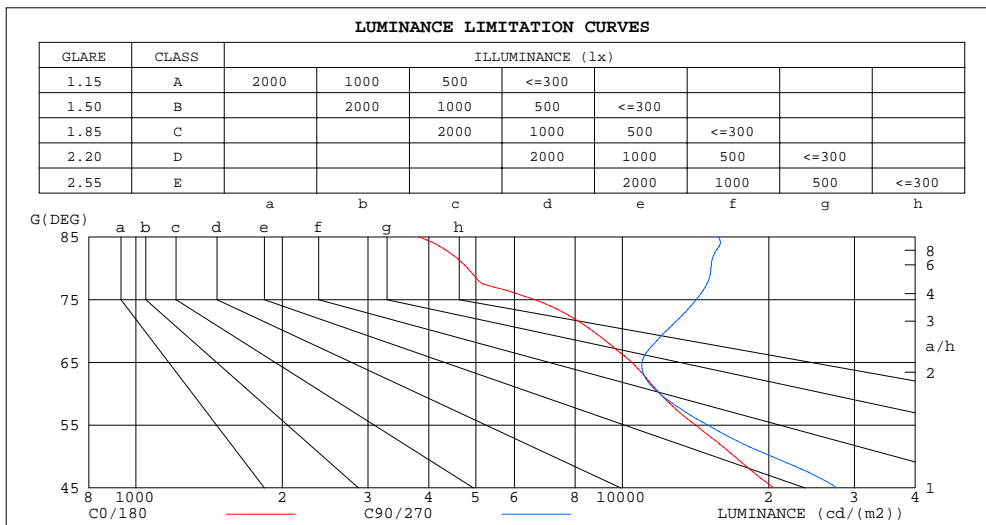
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	$\%lum, lamp$
10	2141	2180	2233	2221	2199	2217	2223	2173	0- 10	215.0	215.0	6.03,6.03
20	1722	1840	1982	1918	1819	1918	1967	1828	10- 20	576.9	791.9	22.2,22.2
30	1241	1383	1568	1460	1333	1464	1554	1373	20- 30	758.2	1550	43.5,43.5
40	834.7	942.2	1088	1024	921.9	1030	1087	935.4	30- 40	750.4	2300	64.5,64.5
50	458.4	491.6	546.7	540.9	516.0	553.2	545.9	481.3	40- 50	568.2	2869	80.4,80.4
60	250.2	270.0	250.1	286.4	289.2	293.9	250.2	261.0	50- 60	335.8	3204	89.8,89.8
70	124.6	156.5	176.3	175.9	156.6	179.5	175.5	155.2	60- 70	209.9	3414	95.7,95.7
80	35.00	45.10	110.7	63.67	46.56	65.47	111.2	44.83	70- 80	121.6	3536	99.1,99.1
90	0.6998	0.7328	0.8320	2.672	3.460	2.887	0.8155	0.7108	80- 90	30.53	3567	100,100
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		

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:2020-12-28

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.406.10
 Humidity:65.0%
 Test Distance:9.370m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:229.95V I:0.1785A P:39.735W PF:0.9682 Freq:49.70Hz Lamp Flux:3566.59x1 lm		
NAME: LICON-C	TYPE:	WEIGHT:
SPEC.:	DIM.: 1204*44*75	SERIAL No.:
MFR.: NEXOL	SUR.:1.198*0.035	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	3813	15767
80	4811	15209
75	6603	14187
70	8694	12302
65	10461	10975
60	11945	11938
55	14149	14975
50	17021	20299
45	20490	27630

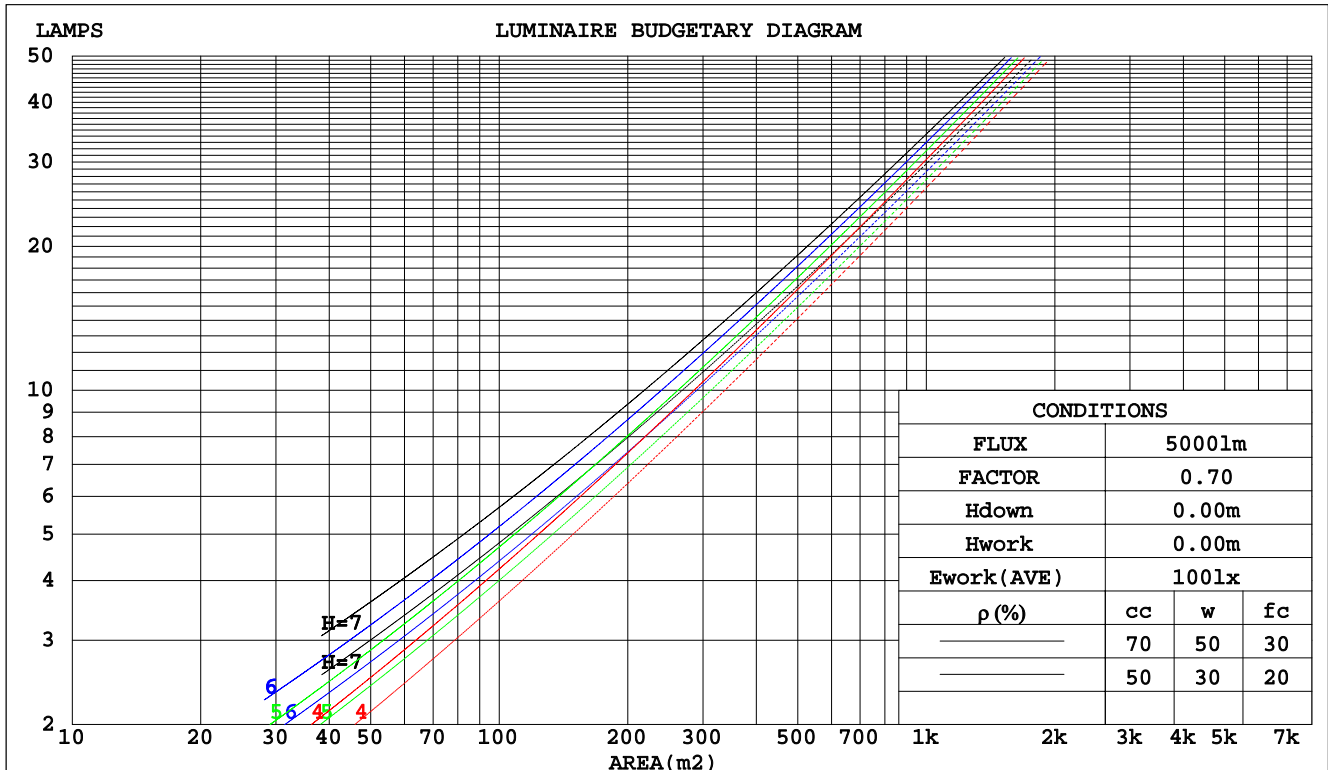
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:2020-12-28

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:9.370m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:229.95V I:0.1785A P:39.735W PF:0.9682 Freq:49.70Hz Lamp Flux:3566.59x1 lm		
NAME: LICON-C	TYPE:	WEIGHT:
SPEC.:	DIM.: 1204*44*75	SERIAL No.:
MFR.: NEXOL	SUR.:1.198*0.035	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						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	1.02	1.02	1.02	1.00
1.0	1.07	1.04	1.01	1.05	1.02	.99	1.01	.98	.96	.97	.95	.93	.93	.92	.90	.88
2.0	.96	.91	.86	.94	.89	.85	.91	.87	.83	.88	.84	.81	.85	.82	.79	.78
3.0	.87	.80	.75	.85	.79	.74	.83	.77	.73	.80	.75	.72	.78	.74	.70	.69
4.0	.79	.71	.66	.78	.71	.65	.75	.69	.65	.73	.68	.64	.71	.67	.63	.61
5.0	.72	.64	.59	.71	.64	.58	.69	.63	.58	.67	.62	.57	.65	.61	.57	.55
6.0	.66	.58	.53	.65	.58	.53	.63	.57	.52	.62	.56	.52	.60	.55	.51	.49
7.0	.61	.53	.48	.60	.53	.48	.59	.52	.47	.57	.51	.47	.56	.51	.47	.45
8.0	.56	.49	.44	.56	.48	.43	.54	.48	.43	.53	.47	.43	.52	.47	.43	.41
9.0	.52	.45	.40	.52	.45	.40	.51	.44	.40	.50	.44	.40	.49	.43	.39	.38
10.0	.49	.42	.37	.48	.41	.37	.47	.41	.37	.46	.41	.37	.46	.40	.36	.35



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:2020-12-28

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.406.10
 Humidity:65.0%
 Test Distance:9.370m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:229.95V I:0.1785A P:39.735W PF:0.9682 Freq:49.70Hz Lamp Flux:3566.59x1 lm					
NAME: LICON-C			TYPE:		WEIGHT:
SPEC.:			DIM.: 1204*44*75		SERIAL No.:
MFR.: NEXOL			SUR.:1.198*0.035		Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.247	.141	.045	.240	.137	.044	.227	.131	.042	.216	.124	.040	.205	.119	.038	
2.0	.236	.129	.040	.230	.127	.039	.219	.122	.038	.208	.117	.037	.199	.113	.035	
3.0	.222	.118	.035	.217	.116	.035	.207	.112	.034	.198	.108	.033	.189	.105	.032	
4.0	.208	.108	.032	.203	.106	.031	.195	.103	.031	.187	.100	.030	.179	.097	.030	
5.0	.195	.099	.029	.191	.098	.029	.183	.095	.028	.176	.093	.028	.170	.091	.027	
6.0	.183	.092	.026	.179	.091	.026	.173	.089	.026	.166	.087	.025	.161	.085	.025	
7.0	.172	.085	.024	.169	.084	.024	.163	.082	.024	.158	.081	.024	.152	.079	.023	
8.0	.163	.079	.022	.160	.079	.022	.154	.077	.022	.149	.076	.022	.145	.074	.022	
9.0	.154	.074	.021	.151	.074	.021	.146	.072	.021	.142	.071	.020	.138	.070	.020	
10.0	.146	.070	.019	.144	.069	.019	.139	.068	.019	.135	.067	.019	.131	.066	.019	

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	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.176	.157	.139	.151	.134	.120	.103	.093	.083	.059	.054	.048	.019	.017	.016	
2.0	.165	.132	.105	.141	.114	.091	.097	.079	.063	.056	.046	.037	.018	.015	.012	
3.0	.155	.114	.081	.133	.098	.070	.091	.068	.049	.053	.040	.029	.017	.013	.010	
4.0	.147	.100	.064	.126	.086	.056	.087	.060	.039	.050	.035	.023	.016	.011	.008	
5.0	.139	.089	.052	.119	.077	.046	.082	.054	.032	.048	.032	.019	.015	.010	.006	
6.0	.132	.080	.044	.113	.070	.038	.078	.049	.027	.045	.029	.016	.015	.009	.005	
7.0	.125	.073	.037	.108	.064	.032	.075	.045	.023	.043	.026	.014	.014	.009	.004	
8.0	.119	.067	.032	.103	.058	.028	.071	.041	.020	.041	.024	.012	.013	.008	.004	
9.0	.114	.062	.028	.098	.054	.024	.068	.038	.017	.040	.022	.010	.013	.007	.003	
10.0	.109	.058	.024	.094	.050	.021	.065	.035	.015	.038	.021	.009	.012	.007	.003	

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:2020-12-28

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:9.370m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:229.95V I:0.1785A P:39.735W PF:0.9682 Freq:49.70Hz Lamp Flux:3566.59x1 lm										
NAME: LICON-C					TYPE:			WEIGHT:		
SPEC.:					DIM.: 1204*44*75			SERIAL No.:		
MFR.: NEXOL					SUR.:1.198*0.035			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	20.4	21.7	20.7	21.9	22.1	21.9	23.1	22.1	23.3	23.5
3H	21.1	22.3	21.4	22.5	22.7	22.7	23.9	23.0	24.1	24.4
4H	21.3	22.4	21.6	22.7	22.9	23.3	24.4	23.6	24.7	24.9
6H	21.4	22.4	21.7	22.7	22.9	23.9	24.9	24.2	25.2	25.4
8H	21.4	22.4	21.7	22.7	22.9	24.1	25.1	24.4	25.4	25.6
12H	21.4	22.3	21.7	22.6	22.9	24.3	25.2	24.6	25.5	25.8
4H 2H	20.8	22.0	21.1	22.2	22.4	22.0	23.2	22.3	23.4	23.6
3H	21.7	22.7	22.0	22.9	23.2	23.2	24.2	23.6	24.5	24.8
4H	22.0	22.9	22.4	23.2	23.5	24.0	24.8	24.3	25.1	25.5
6H	22.1	22.9	22.5	23.2	23.6	24.7	25.4	25.0	25.8	26.1
8H	22.1	22.9	22.5	23.2	23.6	24.9	25.7	25.3	26.0	26.4
12H	22.2	22.8	22.6	23.2	23.6	25.1	25.8	25.6	26.2	26.6
8H 4H	22.2	22.9	22.6	23.3	23.7	24.0	24.8	24.4	25.1	25.5
6H	22.4	23.0	22.8	23.4	23.8	24.8	25.4	25.3	25.8	26.3
8H	22.5	23.0	22.9	23.4	23.9	25.2	25.7	25.6	26.1	26.6
12H	22.5	23.0	23.0	23.4	23.9	25.4	25.9	25.9	26.3	26.8
12H 4H	22.2	22.9	22.7	23.3	23.7	24.0	24.7	24.4	25.0	25.4
6H	22.5	23.0	22.9	23.4	23.8	24.8	25.3	25.3	25.8	26.2
8H	22.5	23.0	23.0	23.4	23.9	25.2	25.6	25.6	26.1	26.5
Variations with the observer position at spacings:										
S = 1.0H	+ 0.7 / - 0.7					+ 0.4 / - 0.6				
1.5H	+ 0.7 / - 0.6					+ 0.4 / - 0.5				
2.0H	+ 1.3 / - 0.9					+ 1.0 / - 1.0				

CIE Pub.117, 3567 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 4.4$)

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:2020-12-28

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:9.370m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:229.95V I:0.1785A P:39.735W PF:0.9682 Freq:49.70Hz Lamp Flux:3566.59x1 lm		
NAME: LICON-C	TYPE:	WEIGHT:
SPEC.:	DIM.: 1204*44*75	SERIAL No.:
MFR.: NEXOL	SUR.:1.198*0.035	Shielding Angle:

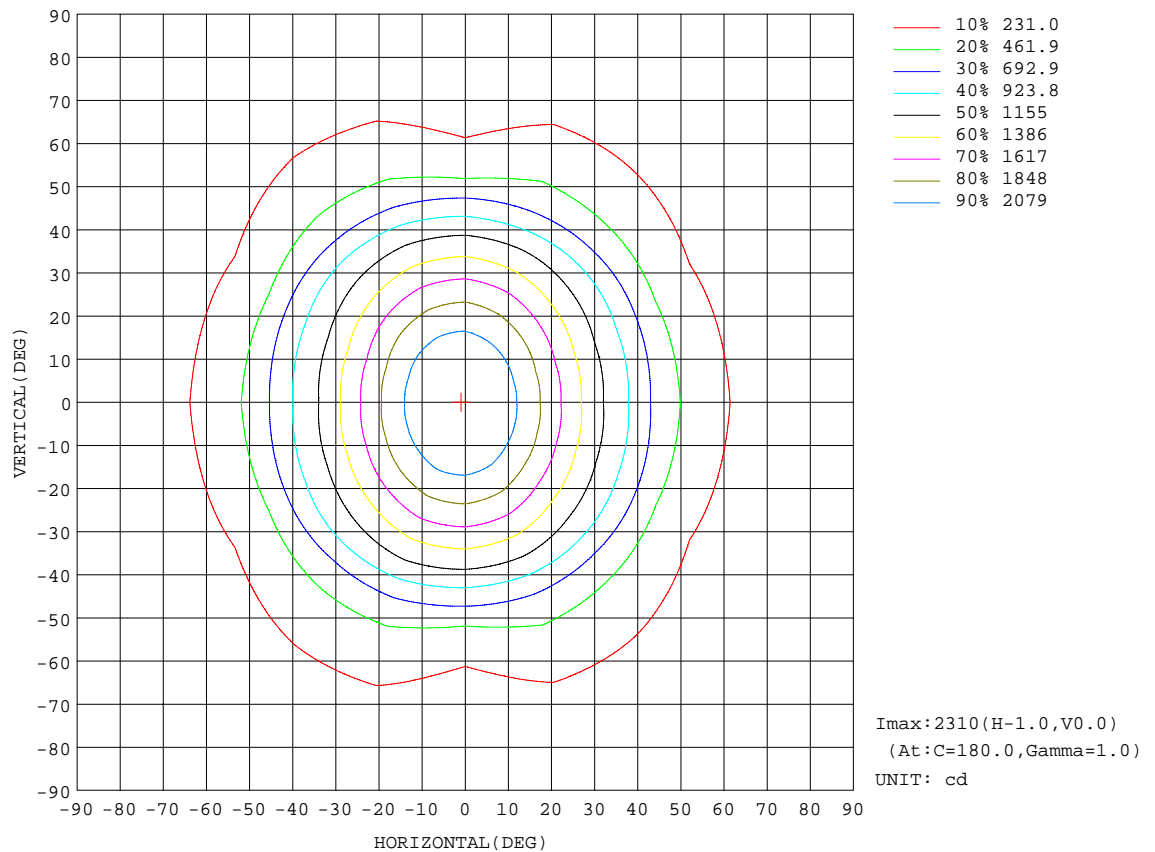
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	69	60	54	69	60	54	68	59	54	49
0.80	79	70	64	78	69	64	76	68	63	58
1.00	86	77	72	85	77	71	83	77	71	65
1.25	92	84	78	91	83	78	88	82	77	71
1.50	96	88	83	95	88	83	92	86	82	75
2.00	101	95	90	100	94	89	96	91	87	81
2.50	104	98	93	102	97	93	99	94	91	83
3.00	107	101	97	105	100	96	101	97	94	86
4.00	110	105	102	107	104	100	103	100	98	90
5.00	111	108	105	109	106	103	105	102	100	92
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:2020-12-28

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:9.370m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:229.95V I:0.1785A P:39.735W PF:0.9682 Freq:49.70Hz Lamp Flux:3566.59x1 lm		
NAME: LICON-C	TYPE:	WEIGHT:
SPEC.:	DIM.: 1204*44*75	SERIAL No.:
MFR.: NEXOL	SUR.:1.198*0.035	Shielding Angle:

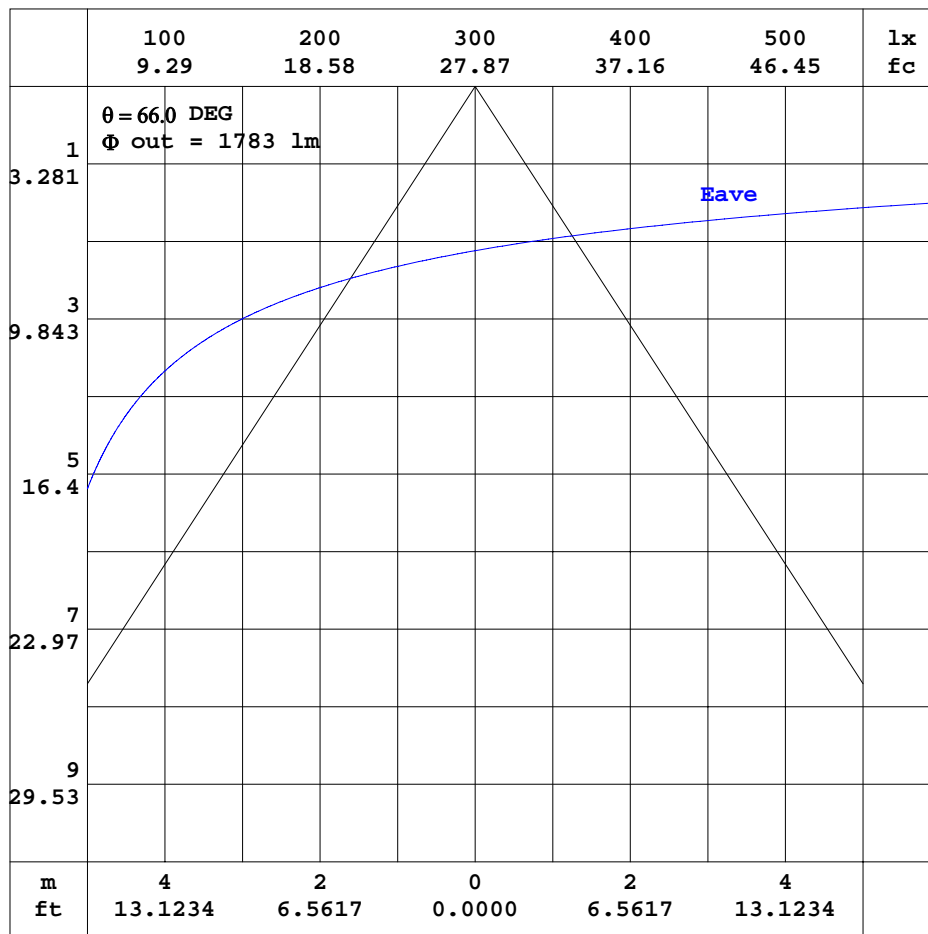


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:2020-12-28

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:9.370m [K=1.0000]
Remarks:

AAI CURVES

Test:U:229.95V I:0.1785A P:39.735W PF:0.9682 Freq:49.70Hz Lamp Flux:3566.59x1 lm		
NAME: LICON-C	TYPE:	WEIGHT:
SPEC.:	DIM.: 1204*44*75	SERIAL No.:
MFR.: NEXOL	SUR.:1.198*0.035	Shielding Angle:



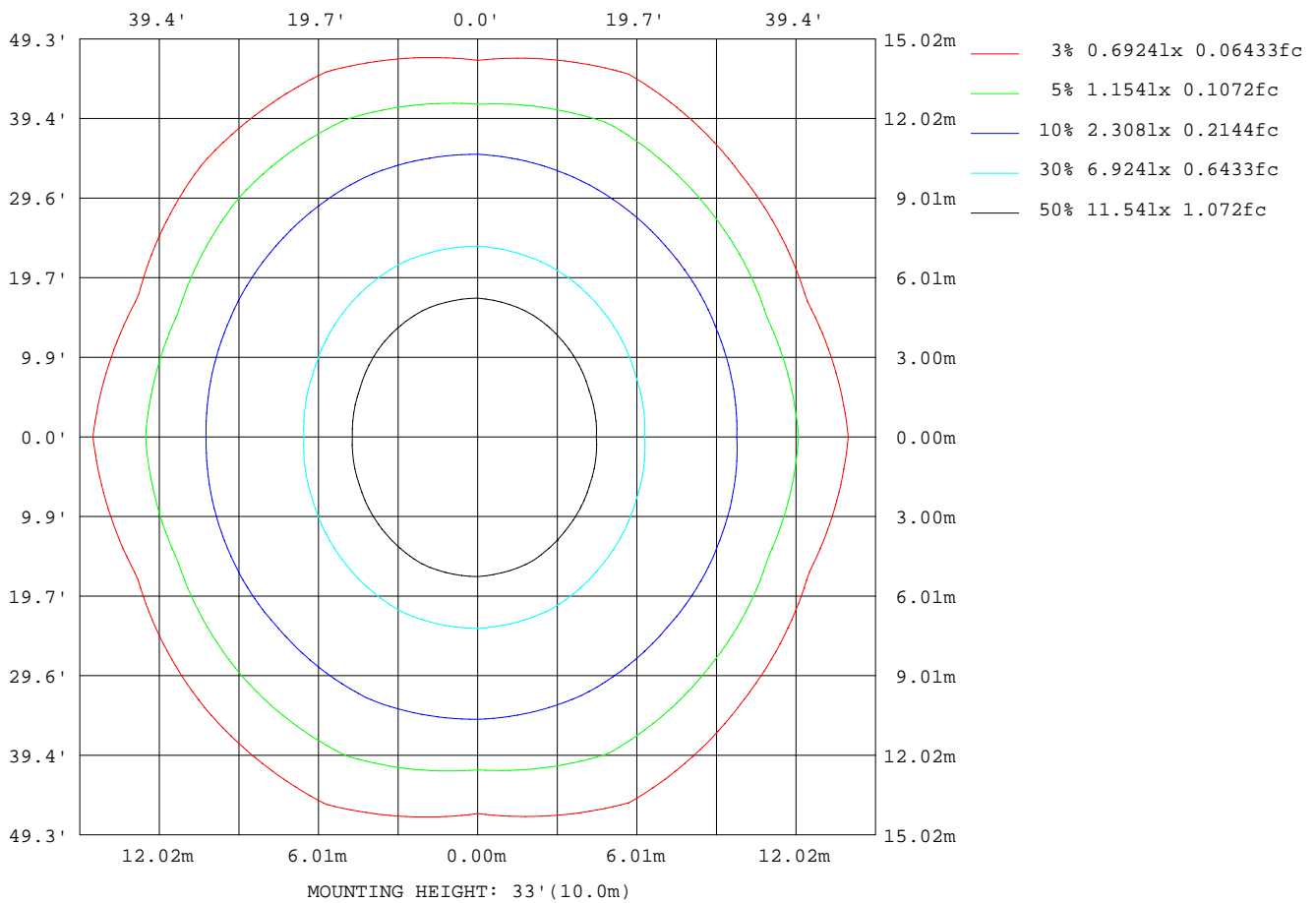
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:2020-12-28

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:9.370m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:229.95V I:0.1785A P:39.735W PF:0.9682 Freq:49.70Hz Lamp Flux:3566.59x1 lm		
NAME: LICON-C	TYPE:	WEIGHT:
SPEC.:	DIM.: 1204*44*75	SERIAL No.:
MFR.: NEXOL	SUR.:1.198*0.035	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators:
Test Date: 2020-12-28

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.406.10
Humidity: 65.0%
Test Distance: 9.370m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:229.95V I:0.1785A P:39.735W PF:0.9682 Freq:49.70Hz Lamp Flux:3566.59x1 lm		
NAME: LICON-C	TYPE:	WEIGHT:
SPEC.:	DIM.: 1204*44*75	SERIAL No.:
MFR.: NEXOL	SUR.:1.198*0.035	Shielding Angle:

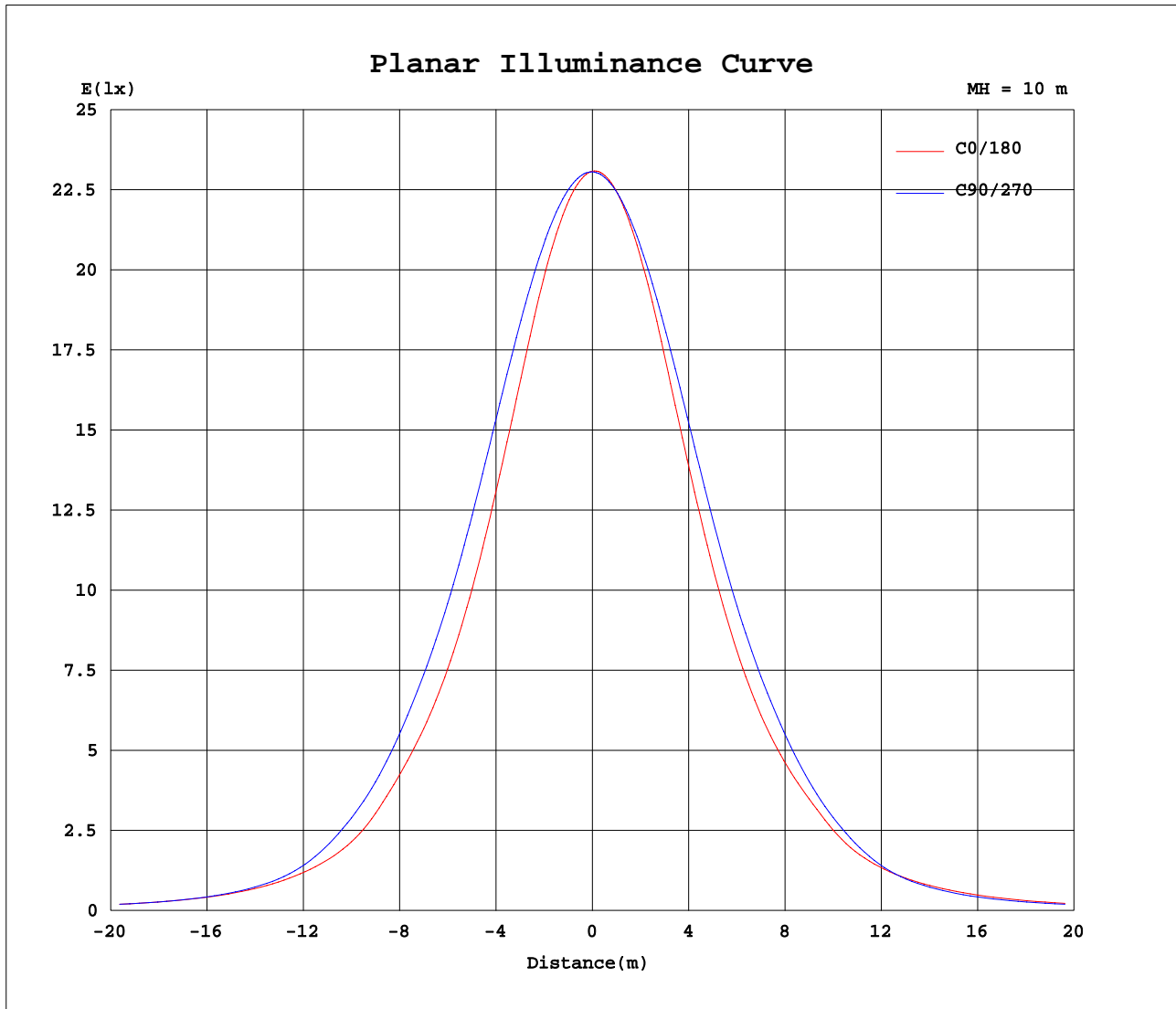
AvgL	cd/m2
L_0~180(65)av	11342
L_0~180(75)av	7785
L_0~180(85)av	5115
L_90~270(65)av	10996
L_90~270(75)av	14229
L_90~270(85)av	15727
L_45(65)av	12371
L_45(75)av	10250
L_45(85)av	5330

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:2020-12-28

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.406.10
 Humidity:65.0%
 Test Distance:9.370m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators:
Test Date: 2020-12-28

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.406.10
Humidity: 65.0%
Test Distance: 9.370m [K=1.0000]
Remarks:

```

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:9.370m [K=1.0000]
Remarks:

```