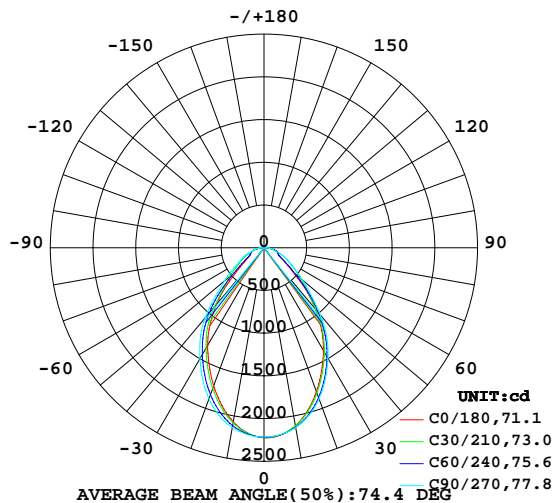


LUMINAIRE PHOTOMETRIC TEST REPORT

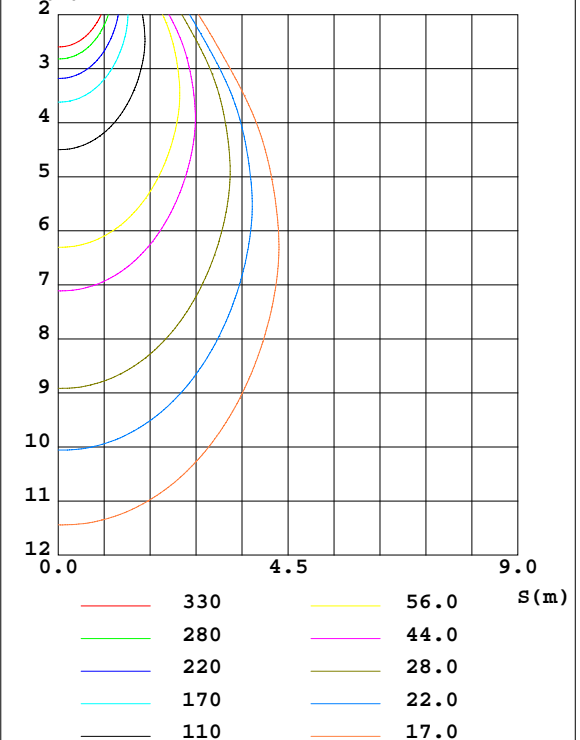
Test:U:229.77V I:0.2708A P:61.056W PF:0.9814 Freq:49.99Hz Lamp Flux:3585.42x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1506*44*75	SERIAL No.:
MFR.: A4673444-01	SUR.:1.5*0.035	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 58.72 lm/W			
MODEL		Imax(cd)	2225	S/MH(C0/180)	0.95
NOMINAL POWER(W)	60	LOR(%)	100.0	S/MH(C90/270)	1.05
RATED VOLTAGE(V)	230.0	TOTAL FLUX(lm)	3585.4	η UP,DN(C0-180)	0.0,50.2
NOMINAL FLUX(lm)	3585.42	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,49.8
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.00
TEST VOLTAGE(V)	230.0	η down(%)	100.0	CIBSE SHR MAX	1.15

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:
Test Date:2023-09-27

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:11.700m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

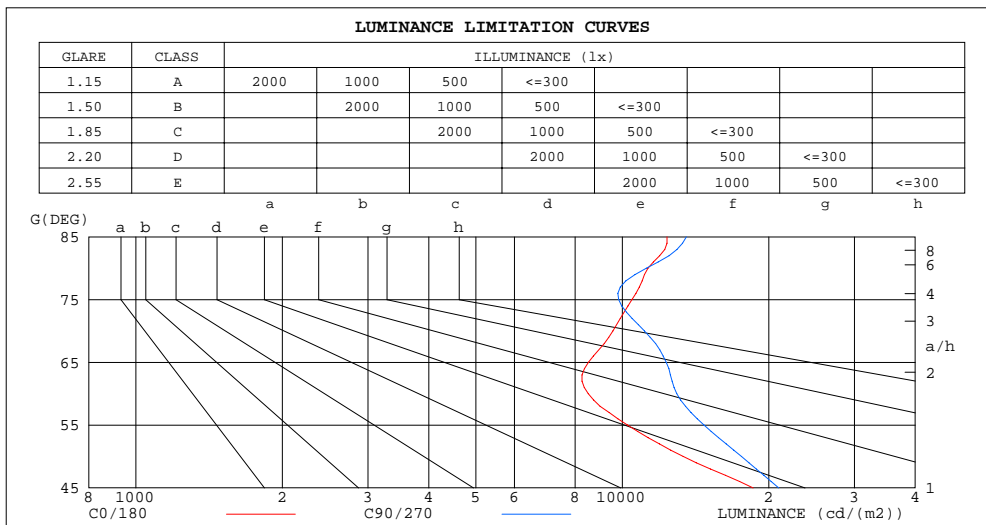
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	$\%lum, lamp$
10	2115	2128	2136	2098	2070	2095	2136	2121	0- 10	206.6	206.6	5.76,5.76
20	1793	1844	1884	1794	1722	1786	1882	1833	10- 20	555.9	762.5	21.3,21.3
30	1392	1450	1498	1398	1319	1392	1500	1444	20- 30	745.8	1508	42.1,42.1
40	933.3	969.3	1027	929.6	862.4	949.8	1072	1015	30- 40	753.9	2262	63.1,63.1
50	450.0	515.9	593.1	492.0	391.5	479.4	602.7	531.1	40- 50	551.2	2813	78.5,78.5
60	223.4	296.1	339.7	288.1	200.9	280.9	335.7	302.9	50- 60	331.5	3145	87.7,87.7
70	171.8	206.1	199.4	194.9	158.3	189.9	200.7	200.7	60- 70	229.3	3374	94.1,94.1
80	102.9	110.9	102.2	99.38	88.12	100.1	104.8	110.0	70- 80	153.8	3528	98.4,98.4
90	5.679	4.553	3.179	1.572	2.526	2.569	3.505	4.338	80- 90	57.33	3585	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: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2023-09-27

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 γ Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
 Humidity:65.0%
 Test Distance:11.700m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:229.77V I:0.2708A P:61.056W PF:0.9814 Freq:49.99Hz Lamp Flux:3585.42x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1506*44*75	SERIAL No.:
MFR.: A4673444-01	SUR.:1.5*0.035	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	12357	13542
80	11291	11207
75	10465	9828
70	9566	11105
65	8514	12304
60	8510	12939
55	10246	14721
50	13336	17576
45	18571	20965

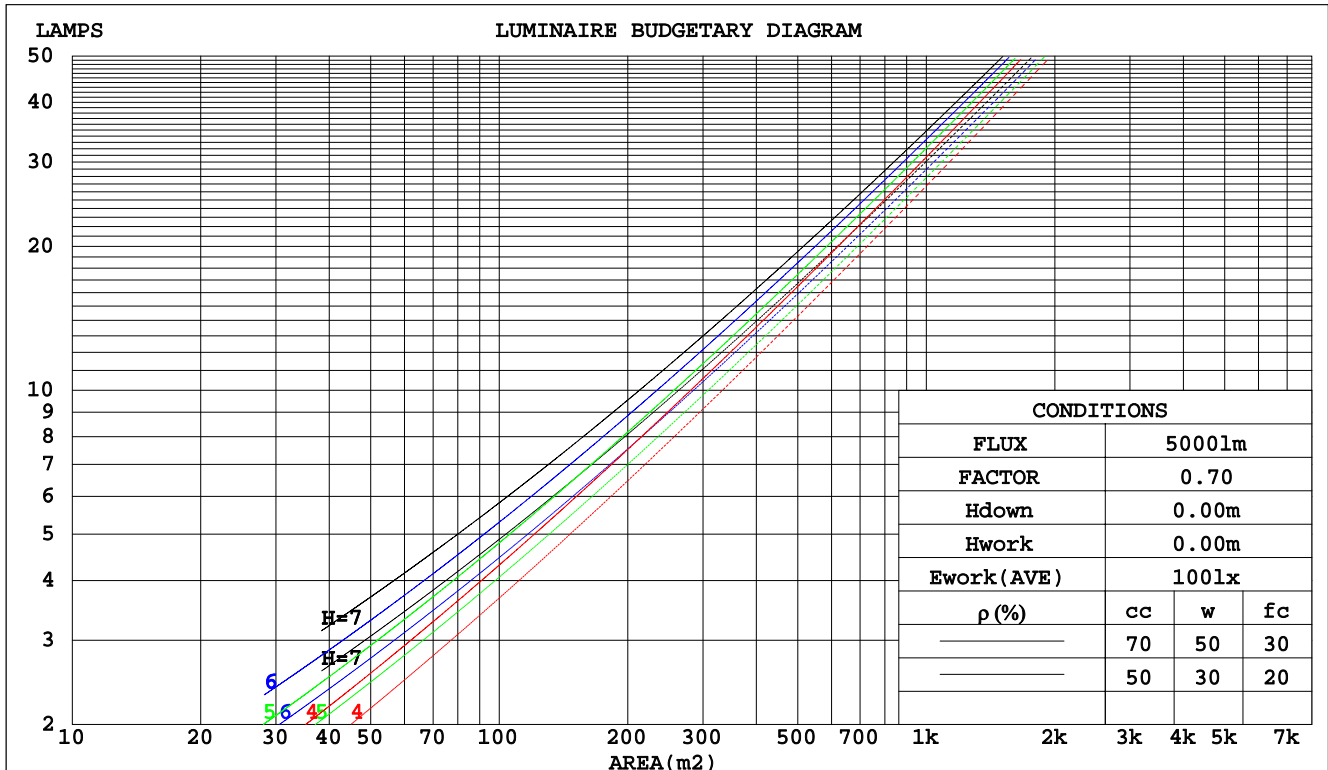
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-09-27

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:11.700m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:229.77V I:0.2708A P:61.056W PF:0.9814 Freq:49.99Hz Lamp Flux:3585.42x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1506*44*75	SERIAL No.:
MFR.: A4673444-01	SUR.:1.5*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	.00
1.0	1.06	1.03	.00	1.04	1.01	.98	.00	.97	.95	.96	.94	.92	.93	.91	.89	.87
2.0	.95	.89	.85	.93	.88	.84	.90	.86	.82	.87	.83	.80	.84	.81	.78	.76
3.0	.86	.79	.73	.84	.78	.73	.81	.76	.71	.79	.74	.70	.76	.72	.69	.67
4.0	.78	.70	.64	.77	.69	.64	.74	.68	.63	.72	.67	.62	.70	.65	.62	.60
5.0	.71	.63	.57	.70	.62	.57	.68	.61	.56	.66	.60	.56	.64	.59	.55	.53
6.0	.65	.57	.51	.64	.57	.51	.62	.56	.51	.61	.55	.50	.59	.54	.50	.48
7.0	.60	.52	.47	.59	.52	.46	.58	.51	.46	.56	.50	.46	.55	.50	.46	.44
8.0	.55	.48	.42	.55	.47	.42	.53	.47	.42	.52	.46	.42	.51	.46	.42	.40
9.0	.51	.44	.39	.51	.44	.39	.50	.43	.39	.49	.43	.39	.48	.42	.38	.37
10.0	.48	.41	.36	.47	.40	.36	.46	.40	.36	.46	.40	.36	.45	.39	.35	.34



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-09-27

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:11.700m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:229.77V I:0.2708A P:61.056W PF:0.9814 Freq:49.99Hz Lamp Flux:3585.42x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1506*44*75	SERIAL No.:
MFR.: A4673444-01	SUR.:1.5*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	.261	.149	.047	.254	.145	.046	.241	.138	.044	.229	.132	.042	.218	.127	.041		
2.0	.245	.134	.041	.239	.132	.041	.228	.127	.039	.218	.122	.038	.208	.118	.037		
3.0	.229	.122	.036	.223	.120	.036	.214	.116	.035	.204	.112	.034	.196	.109	.034		
4.0	.213	.111	.033	.208	.109	.032	.200	.106	.032	.192	.103	.031	.184	.100	.030		
5.0	.199	.101	.029	.195	.100	.029	.187	.098	.029	.180	.095	.028	.174	.093	.028		
6.0	.186	.093	.027	.183	.092	.027	.176	.090	.026	.170	.088	.026	.164	.086	.026		
7.0	.175	.087	.025	.172	.086	.024	.166	.084	.024	.160	.082	.024	.155	.080	.024		
8.0	.165	.081	.023	.162	.080	.023	.157	.078	.022	.152	.077	.022	.147	.075	.022		
9.0	.156	.075	.021	.153	.075	.021	.148	.073	.021	.144	.072	.021	.139	.071	.020		
10.0	.147	.071	.020	.145	.070	.020	.141	.069	.019	.137	.068	.019	.133	.067	.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	.177	.157	.138	.151	.134	.119	.104	.092	.082	.060	.053	.048	.019	.017	.015	
2.0	.166	.132	.104	.142	.114	.090	.097	.079	.062	.056	.046	.037	.018	.015	.012	
3.0	.157	.114	.080	.134	.098	.069	.092	.068	.049	.053	.040	.029	.017	.013	.009	
4.0	.148	.100	.064	.127	.087	.055	.087	.060	.039	.051	.035	.023	.016	.012	.008	
5.0	.140	.089	.052	.120	.077	.045	.083	.054	.032	.048	.032	.019	.015	.010	.006	
6.0	.133	.081	.043	.114	.070	.038	.079	.049	.027	.046	.029	.016	.015	.009	.005	
7.0	.126	.074	.036	.109	.064	.032	.075	.045	.023	.044	.026	.013	.014	.009	.004	
8.0	.120	.068	.031	.104	.059	.027	.072	.041	.019	.042	.024	.012	.013	.008	.004	
9.0	.115	.063	.027	.099	.054	.024	.069	.038	.017	.040	.023	.010	.013	.007	.003	
10.0	.110	.058	.024	.094	.051	.021	.066	.036	.015	.038	.021	.009	.012	.007	.003	

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2023-09-27

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
 Humidity:65.0%
 Test Distance:11.700m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:229.77V I:0.2708A P:61.056W PF:0.9814 Freq:49.99Hz Lamp Flux:3585.42x1 lm										
NAME:			TYPE:			WEIGHT:				
SPEC.:			DIM.: 1506*44*75			SERIAL No.:				
MFR.: A4673444-01			SUR.:1.5*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	20.8	22.1	21.0	22.3	22.5	20.8	22.1	21.1	22.3	22.5
3H	21.8	23.0	22.1	23.3	23.5	22.0	23.2	22.3	23.5	23.7
4H	22.4	23.6	22.7	23.8	24.1	22.6	23.8	22.9	24.0	24.2
6H	23.0	24.0	23.3	24.3	24.6	23.1	24.2	23.4	24.4	24.7
8H	23.2	24.3	23.5	24.5	24.8	23.3	24.4	23.7	24.7	24.9
12H	23.4	24.4	23.7	24.7	25.0	23.6	24.6	23.9	24.8	25.1
4H 2H	21.1	22.3	21.4	22.5	22.8	21.2	22.3	21.5	22.5	22.8
3H	22.5	23.5	22.8	23.8	24.1	22.6	23.6	22.9	23.9	24.2
4H	23.2	24.1	23.6	24.5	24.8	23.4	24.3	23.7	24.6	24.9
6H	24.0	24.8	24.4	25.1	25.5	24.1	24.9	24.5	25.2	25.6
8H	24.3	25.0	24.7	25.4	25.8	24.4	25.1	24.8	25.5	25.9
12H	24.6	25.2	25.0	25.6	26.0	24.7	25.4	25.1	25.8	26.2
8H 4H	23.5	24.3	23.9	24.6	25.0	23.7	24.4	24.1	24.8	25.1
6H	24.5	25.1	24.9	25.5	25.9	24.6	25.2	25.0	25.6	26.0
8H	24.9	25.5	25.4	25.9	26.4	25.0	25.6	25.5	26.0	26.4
12H	25.3	25.8	25.8	26.2	26.7	25.4	25.9	25.9	26.3	26.8
12H 4H	23.6	24.3	24.0	24.6	25.0	23.7	24.4	24.1	24.8	25.2
6H	24.6	25.1	25.1	25.6	26.0	24.7	25.2	25.1	25.6	26.1
8H	25.1	25.6	25.6	26.0	26.5	25.2	25.6	25.6	26.1	26.6
Variations with the observer position at spacings:										
S = 1.0H	+ 0.3 / - 0.4					+ 0.3 / - 0.4				
1.5H	+ 0.2 / - 0.6					+ 0.3 / - 0.3				
2.0H	+ 0.4 / - 0.9					+ 0.7 / - 0.6				

CIE Pub.117, 3585 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 4.4$)

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2023-09-27

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
 Humidity:65.0%
 Test Distance:11.700m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:229.77V I:0.2708A P:61.056W PF:0.9814 Freq:49.99Hz Lamp Flux:3585.42x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1506*44*75	SERIAL No.:
MFR.: A4673444-01	SUR.:1.5*0.035	Shielding Angle:

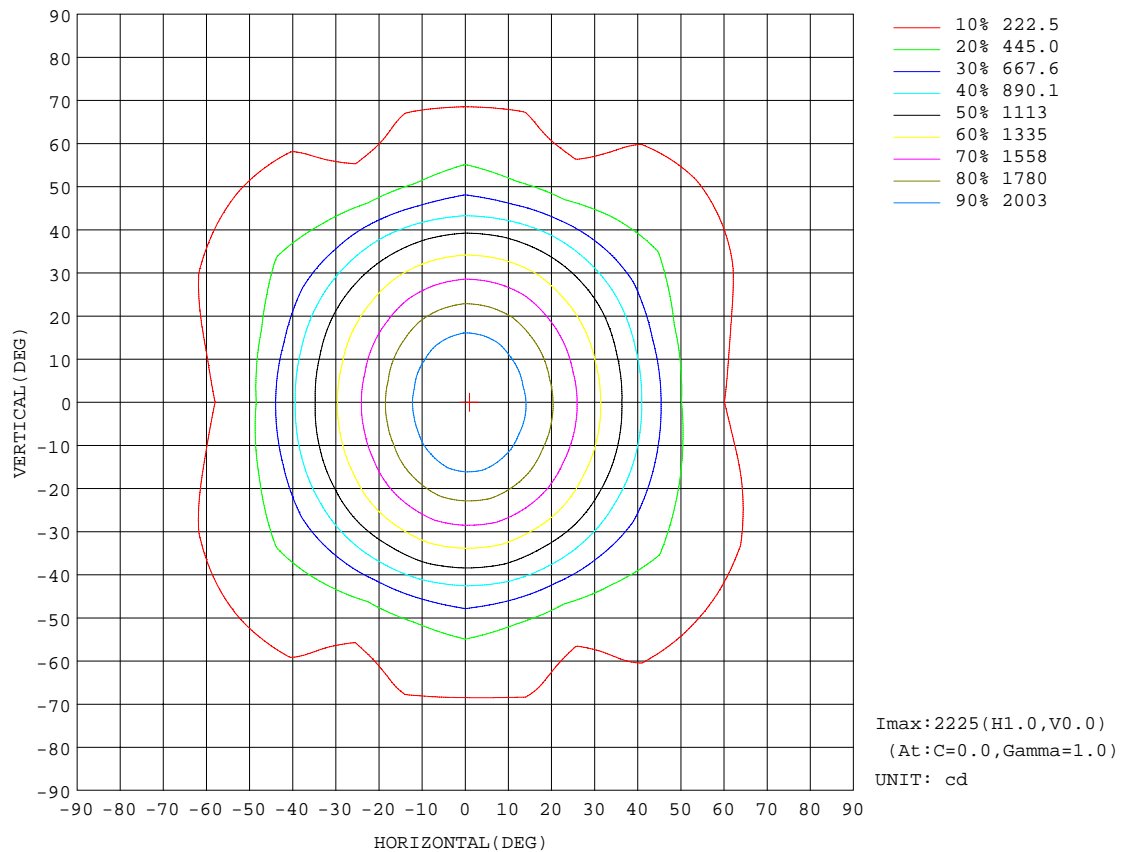
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	69	59	53	68	59	53	67	58	53	48
0.80	78	69	63	77	68	62	76	67	62	56
1.00	85	76	70	84	76	70	82	76	69	64
1.25	91	83	77	90	82	77	87	81	76	70
1.50	95	87	82	94	86	81	91	85	80	74
2.00	100	94	88	99	92	88	95	90	86	79
2.50	103	97	92	101	96	91	98	93	89	82
3.00	106	100	96	104	99	95	100	96	93	85
4.00	109	104	101	107	103	99	103	99	97	88
5.00	111	107	104	109	105	102	104	102	99	91
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:
Test Date:2023-09-27

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:11.700m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:229.77V I:0.2708A P:61.056W PF:0.9814 Freq:49.99Hz Lamp Flux:3585.42x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1506*44*75	SERIAL No.:
MFR.: A4673444-01	SUR.:1.5*0.035	Shielding Angle:

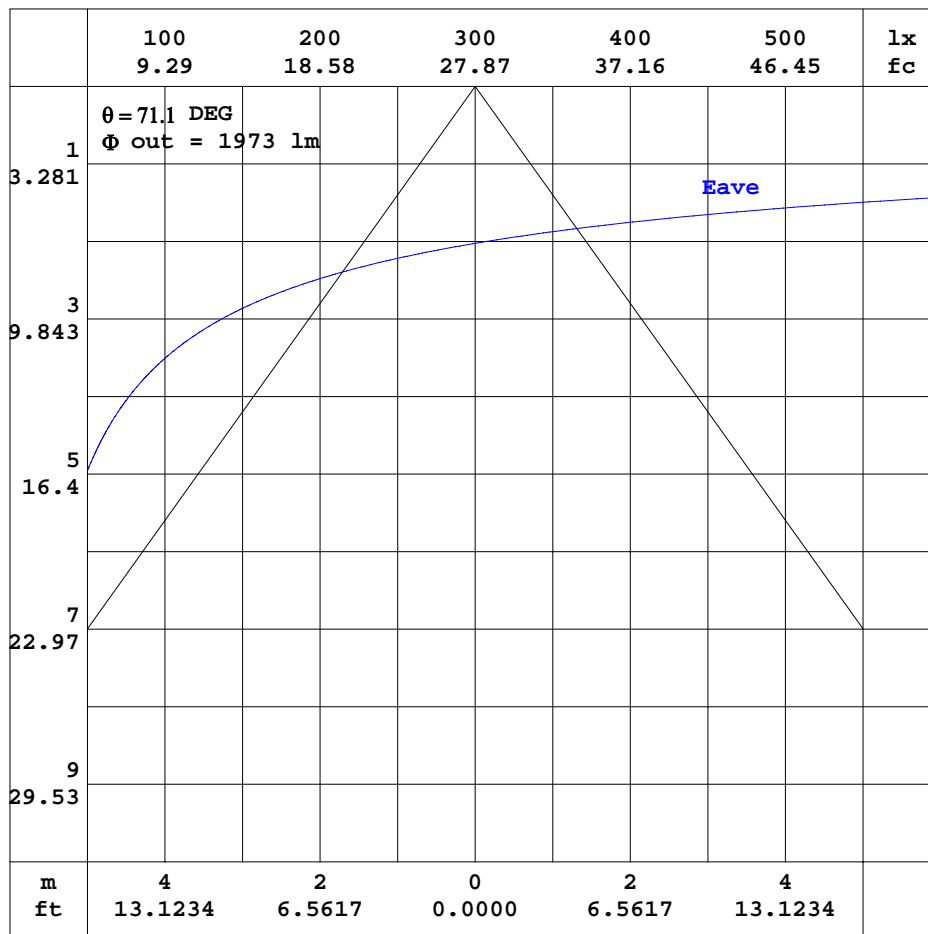


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-09-27

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:11.700m [K=1.0000]
Remarks:

AAI CURVES

Test:U:229.77V I:0.2708A P:61.056W PF:0.9814 Freq:49.99Hz Lamp Flux:3585.42x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1506*44*75	SERIAL No.:
MFR.: A4673444-01	SUR.:1.5*0.035	Shielding Angle:



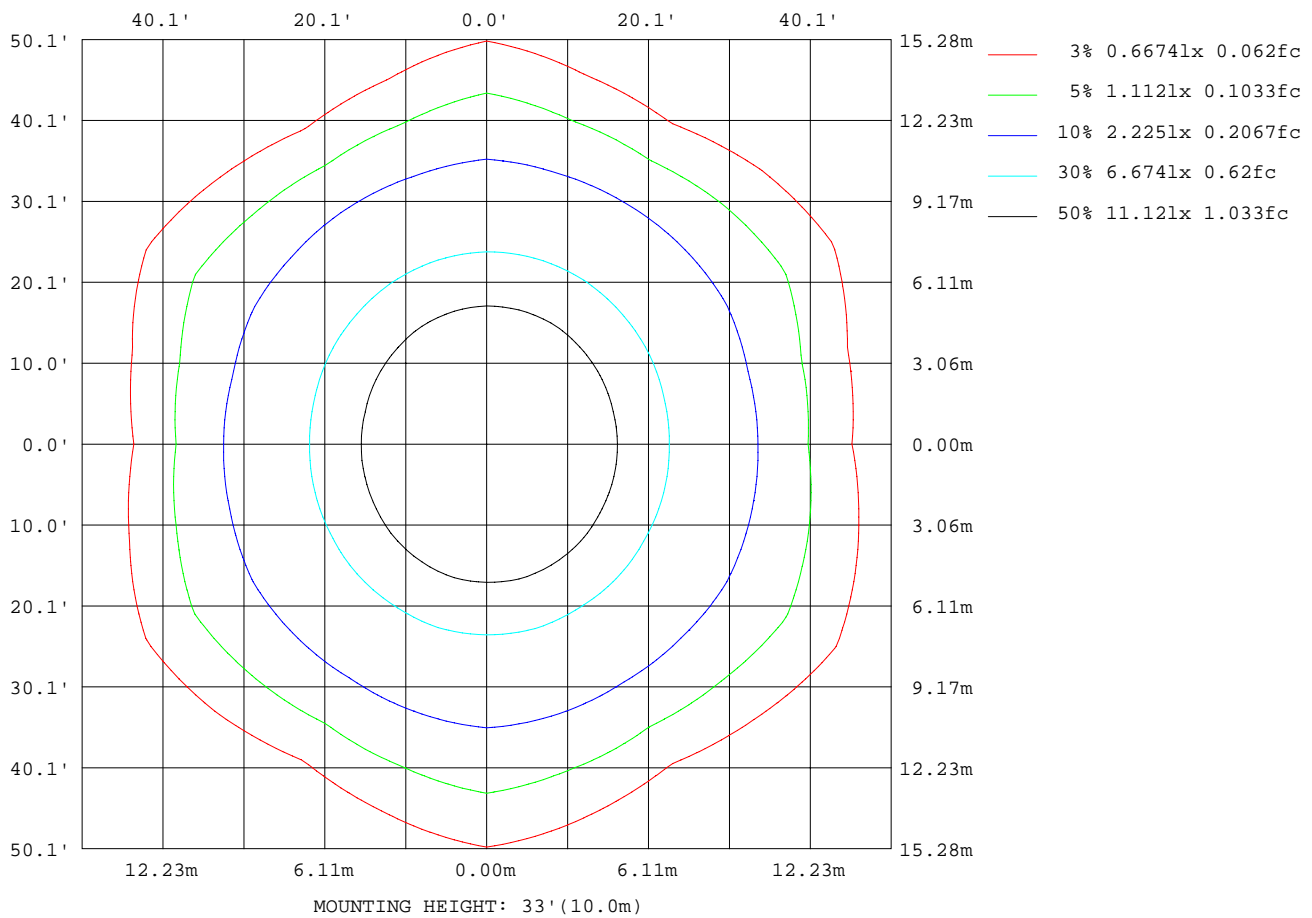
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2023-09-27

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity: 65.0%
Test Distance: 11.700m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:229.77V I:0.2708A P:61.056W PF:0.9814 Freq:49.99Hz Lamp Flux:3585.42x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1506*44*75	SERIAL No.:
MFR.: A4673444-01	SUR.:1.5*0.035	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2023-09-27

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity: 65.0%
Test Distance: 11.700m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:229.77V I:0.2708A P:61.056W PF:0.9814 Freq:49.99Hz Lamp Flux:3585.42x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1506*44*75	SERIAL No.:
MFR.: A4673444-01	SUR.:1.5*0.035	Shielding Angle:

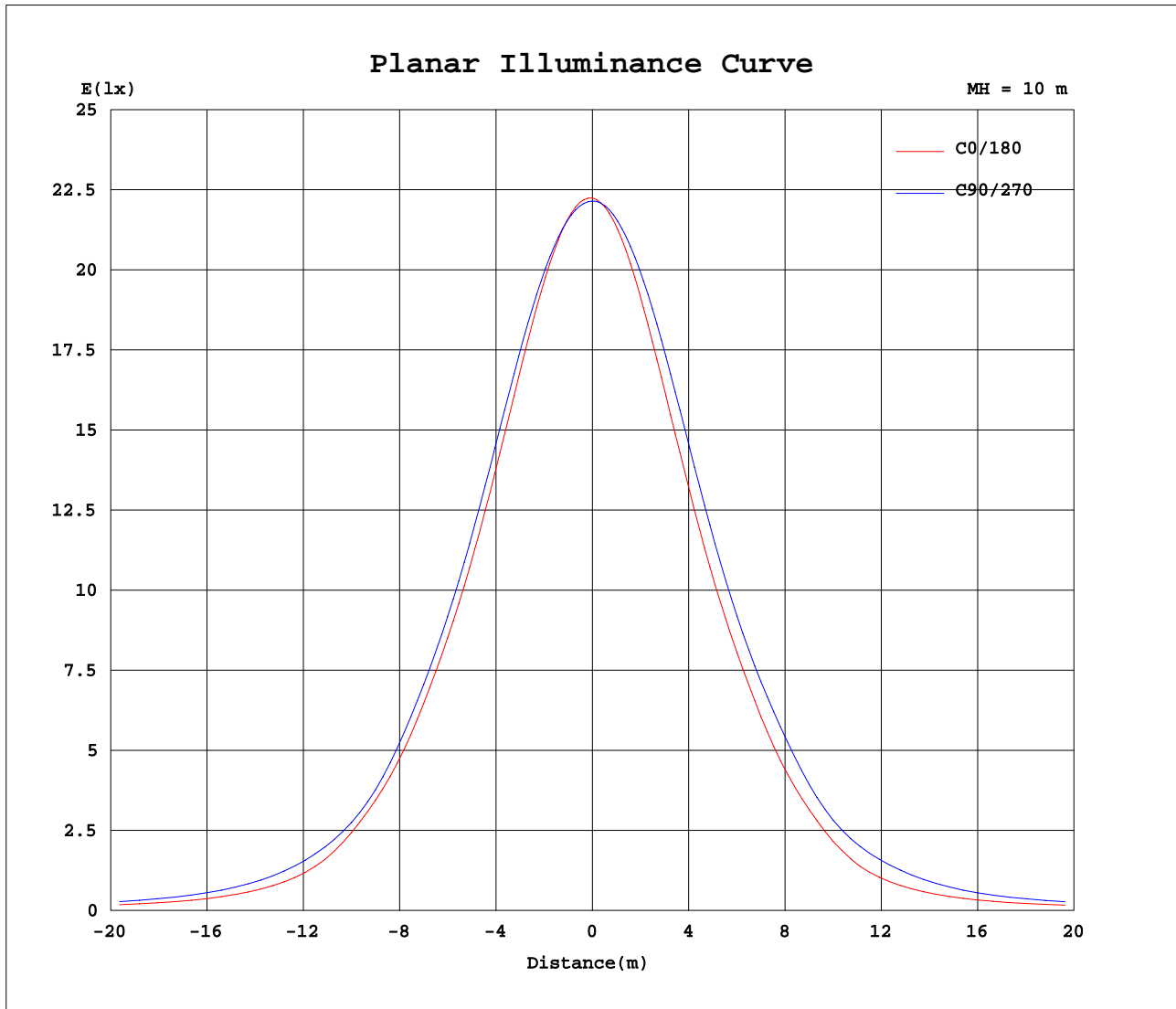
AvgL	cd/m2
L_0~180(65)av	8256
L_0~180(75)av	9896
L_0~180(85)av	10505
L_90~270(65)av	12250
L_90~270(75)av	9768
L_90~270(85)av	13492
L_45(65)av	10903
L_45(75)av	11024
L_45(85)av	11063

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-09-27

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:11.700m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2023-09-27

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity: 65.0%
Test Distance: 11.700m [K=1.0000]
Remarks:

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