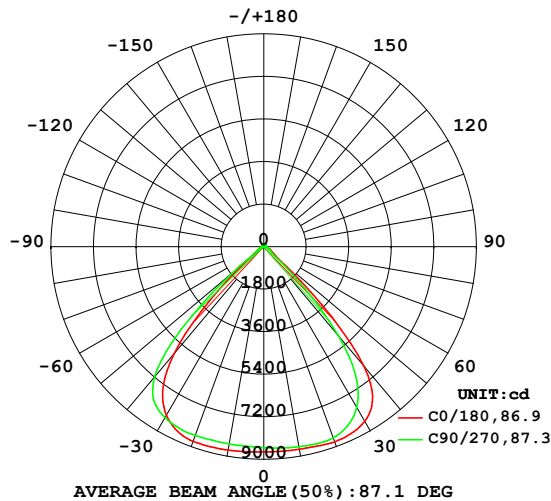


LUMINAIRE PHOTOMETRIC TEST REPORT

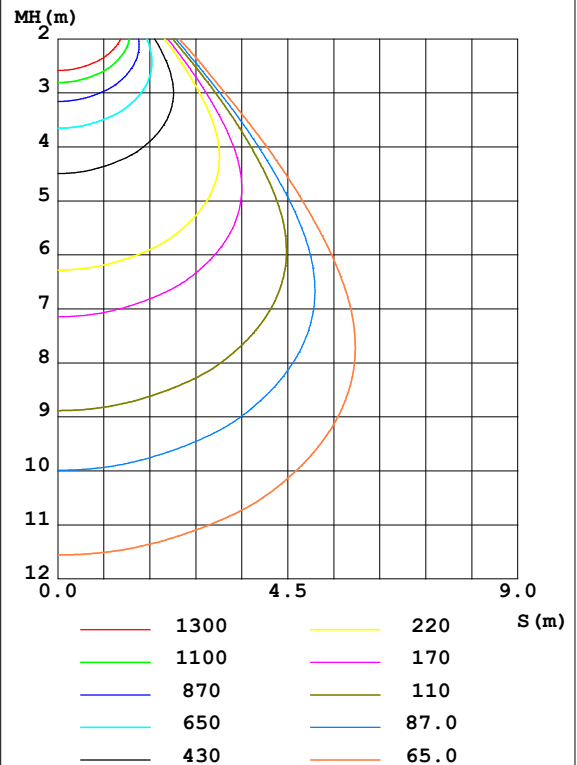
Test:U:218.40V I:0.6717A P:145.14W PF:0.9893 Freq:49.99Hz Lamp Flux:15824.8x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 109.03 lm/W			
MODEL		I _{max} (cd)	8789	S/MH (C0/180)	1.26
NOMINAL POWER (W)	150	LOR (%)	100.0	S/MH (C90/270)	1.36
RATED VOLTAGE (V)	220.0	TOTAL FLUX (lm)	15825	η UP, DN (C0-180)	1.1, 47.1
NOMINAL FLUX (lm)	15824.8	CIE CLASS	DIRECT	η UP, DN (C180-360)	1.4, 50.4
LAMPS INSIDE	1	η up (%)	2.5	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	220.0	η down (%)	97.5	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT: lx)



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2024-11-06

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity: 65.0%
Test Distance: 9.250m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

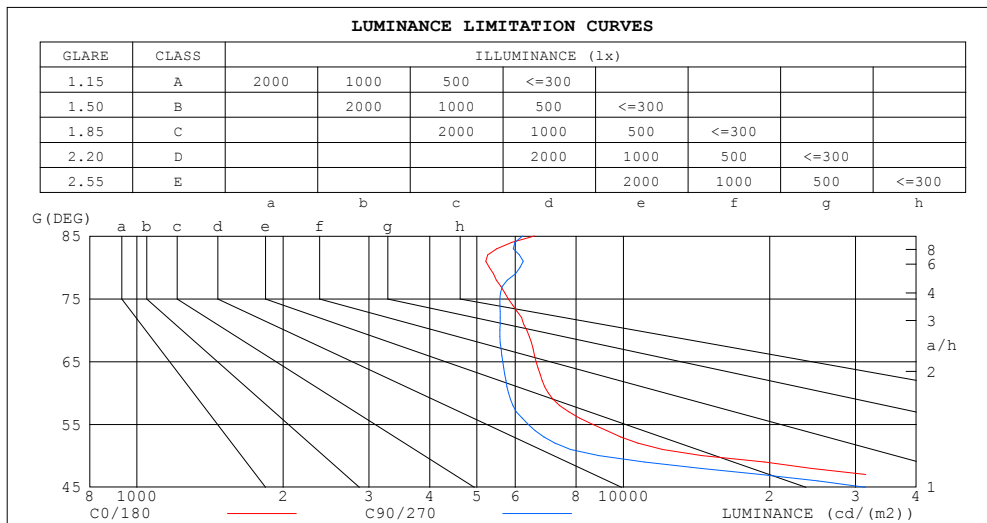
γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum, lamp
10	8706	8593	8738	8477					0- 10	822.2	822.2	5.2,5.2
20	8789	8610	8761	8493					10- 20	2453	3275	20.7,20.7
30	8539	7866	8244	8357					20- 30	3938	7213	45.6,45.6
40	6583	4888	5902	7186					30- 40	4661	11874	75,75
50	932.0	572.7	973.4	1738					40- 50	2659	14533	91.8,91.8
60	350.3	290.6	270.2	287.7					50- 60	444.0	14977	94.6,94.6
70	216.4	190.6	171.7	171.8					60- 70	238.2	15215	96.1,96.1
80	92.13	106.6	96.53	79.85					70- 80	146.6	15362	97.1,97.1
90	42.51	38.44	39.20	37.24					80- 90	64.18	15426	97.5,97.5
100	34.80	34.16	42.69	38.96					90-100	40.19	15466	97.7,97.7
110	38.88	40.89	53.07	49.06					100-110	43.62	15510	98,98
120	47.57	50.21	63.82	59.60					110-120	49.84	15559	98.3,98.3
130	59.18	62.96	79.26	72.78					120-130	54.98	15614	98.7,98.7
140	73.95	78.20	97.96	90.29					130-140	59.44	15674	99,99
150	86.30	89.55	111.9	104.8					140-150	57.47	15731	99.4,99.4
160	99.22	102.2	126.8	119.8					150-160	48.36	15780	99.7,99.7
170	111.8	113.9	134.7	131.6					160-170	33.37	15813	99.9,99.9
180	121.0	122.4	123.1	120.9					170-180	11.76	15825	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-11-06

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.250m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:218.40V I:0.6717A P:145.14W PF:0.9893 Freq:49.99Hz Lamp Flux:15824.8x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	6564	6206
80	5305	6138
75	5796	5577
70	6329	5574
65	6618	5649
60	7006	5812
55	8642	6372
50	14500	8909
45	49107	31481

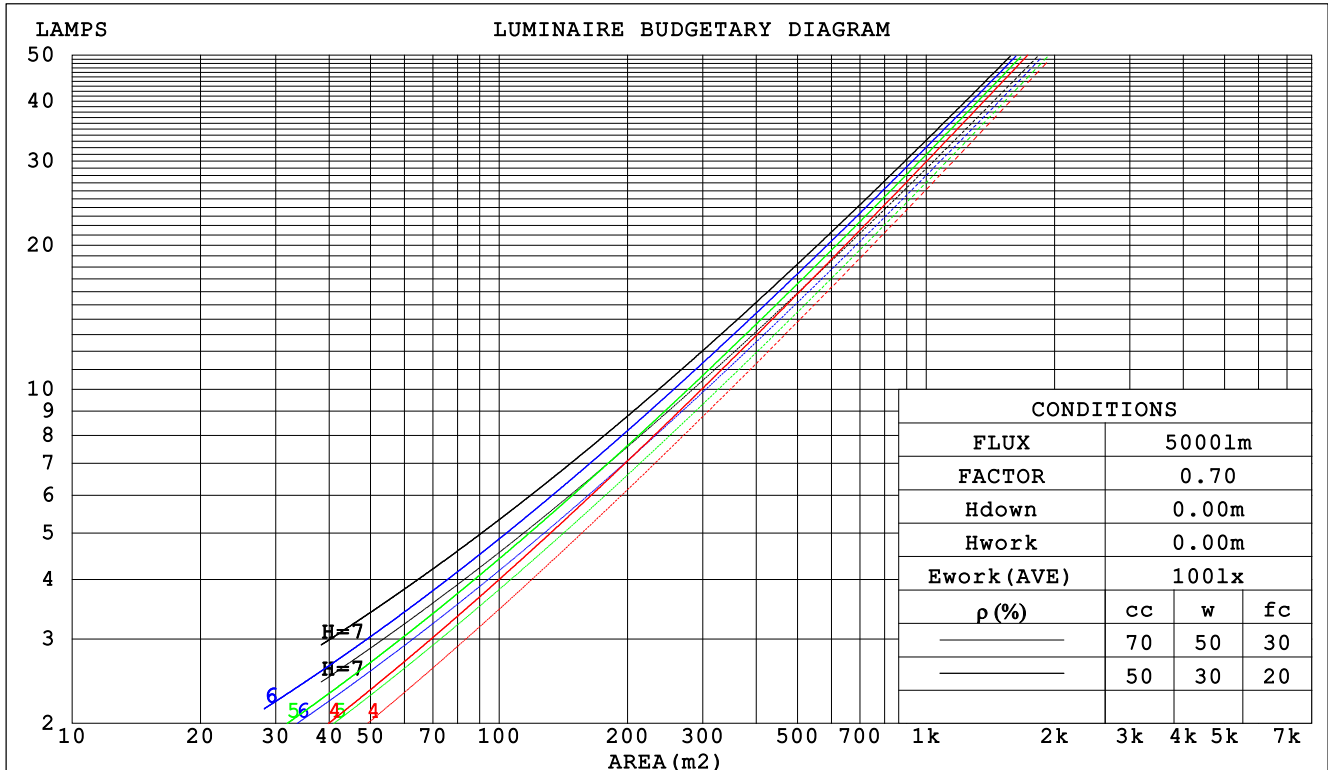
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-11-06

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.250m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:218.40V I:0.6717A P:145.14W PF:0.9893 Freq:49.99Hz Lamp Flux:15824.8x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.18	1.18	1.18	1.15	1.15	1.15	1.10	1.10	1.10	1.05	1.05	1.05	.00	.00	.00	.97
1.0	1.08	1.05	1.03	1.06	1.03	1.01	1.01	.99	.97	.97	.95	.94	.93	.92	.91	.89
2.0	.99	.94	.90	.97	.92	.88	.93	.89	.86	.90	.87	.84	.86	.84	.82	.80
3.0	.90	.84	.79	.88	.83	.78	.85	.81	.77	.83	.79	.75	.80	.77	.74	.72
4.0	.82	.76	.71	.81	.75	.70	.78	.73	.69	.76	.72	.68	.74	.70	.67	.65
5.0	.76	.69	.63	.74	.68	.63	.72	.67	.62	.70	.65	.61	.68	.64	.61	.59
6.0	.70	.62	.57	.69	.62	.57	.67	.61	.56	.65	.60	.56	.63	.59	.55	.53
7.0	.64	.57	.52	.63	.56	.52	.62	.56	.51	.60	.55	.51	.59	.54	.50	.49
8.0	.59	.52	.47	.59	.52	.47	.57	.51	.47	.56	.50	.46	.55	.50	.46	.44
9.0	.55	.48	.43	.54	.48	.43	.53	.47	.43	.52	.46	.43	.51	.46	.42	.41
10.0	.51	.44	.40	.51	.44	.40	.49	.43	.39	.48	.43	.39	.47	.42	.39	.37



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-11-06

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.250m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:218.40V I:0.6717A P:145.14W PF:0.9893 Freq:49.99Hz Lamp Flux:15824.8x1 lm					
NAME:		TYPE:		WEIGHT:	
SPEC.:		DIM.:		SERIAL No.:	
MFR.: EVERFINE		SUR.:		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	.215	.122	.039	.207	.118	.038	.193	.111	.035	.180	.104	.033	.168	.097	.031	
2.0	.207	.113	.035	.200	.110	.034	.188	.105	.032	.177	.099	.031	.166	.094	.030	
3.0	.197	.105	.031	.192	.103	.031	.181	.098	.030	.171	.094	.029	.162	.090	.028	
4.0	.188	.097	.029	.183	.096	.028	.173	.092	.027	.164	.088	.027	.156	.085	.026	
5.0	.178	.091	.026	.174	.089	.026	.166	.086	.025	.158	.083	.025	.150	.080	.024	
6.0	.170	.085	.024	.166	.084	.024	.158	.081	.024	.151	.079	.023	.145	.076	.023	
7.0	.161	.080	.023	.158	.079	.022	.151	.076	.022	.145	.074	.022	.139	.072	.021	
8.0	.154	.075	.021	.151	.074	.021	.144	.072	.021	.139	.070	.020	.133	.068	.020	
9.0	.147	.071	.020	.144	.070	.020	.138	.068	.019	.133	.067	.019	.128	.065	.019	
10.0	.140	.067	.019	.137	.066	.019	.132	.065	.018	.128	.063	.018	.123	.062	.018	

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	.210	.210	.210	.179	.179	.179	.122	.122	.122	.070	.070	.070	.022	.022	.022	
1.0	.193	.176	.161	.165	.151	.139	.113	.104	.096	.065	.060	.056	.021	.019	.018	
2.0	.180	.152	.128	.155	.131	.110	.106	.090	.077	.061	.053	.045	.020	.017	.015	
3.0	.170	.133	.104	.146	.115	.090	.100	.080	.063	.058	.047	.037	.019	.015	.012	
4.0	.161	.119	.087	.138	.103	.076	.095	.072	.053	.055	.042	.032	.018	.014	.010	
5.0	.154	.108	.075	.132	.094	.065	.091	.065	.046	.053	.038	.027	.017	.013	.009	
6.0	.147	.099	.065	.126	.086	.057	.087	.060	.040	.051	.035	.024	.016	.012	.008	
7.0	.141	.092	.058	.121	.080	.051	.084	.056	.036	.049	.033	.021	.016	.011	.007	
8.0	.136	.086	.053	.117	.075	.046	.081	.053	.033	.047	.031	.019	.015	.010	.006	
9.0	.131	.082	.048	.113	.071	.042	.078	.050	.030	.045	.029	.018	.015	.010	.006	
10.0	.126	.077	.045	.109	.067	.039	.075	.047	.028	.044	.028	.017	.014	.009	.006	

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2024-11-06

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.411
 Humidity: 65.0%
 Test Distance: 9.250m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:218.40V I:0.6717A P:145.14W PF:0.9893 Freq:49.99Hz Lamp Flux:15824.8x1 lm										
NAME:					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:		
MFR.: EVERFINE					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	12.6	13.8	12.9	14.0	14.2	11.7	12.8	11.9	13.0	13.3
3H	12.6	13.6	12.9	13.9	14.2	11.6	12.7	11.9	12.9	13.2
4H	12.6	13.6	12.9	13.8	14.1	11.6	12.6	12.0	12.9	13.2
6H	12.6	13.5	12.9	13.8	14.1	11.6	12.6	12.0	12.9	13.2
8H	12.5	13.4	12.9	13.7	14.1	11.6	12.5	12.0	12.8	13.2
12H	12.5	13.4	12.9	13.7	14.0	11.6	12.5	12.0	12.8	13.1
4H 2H	12.4	13.4	12.7	13.7	14.0	11.5	12.4	11.8	12.7	13.0
3H	12.4	13.3	12.8	13.6	13.9	11.5	12.3	11.9	12.7	13.0
4H	12.5	13.2	12.9	13.6	13.9	11.5	12.3	11.9	12.7	13.0
6H	12.5	13.2	12.9	13.5	13.9	11.6	12.3	12.1	12.7	13.1
8H	12.5	13.1	12.9	13.5	13.9	11.7	12.3	12.1	12.7	13.1
12H	12.5	13.1	13.0	13.5	13.9	11.7	12.3	12.2	12.7	13.1
8H 4H	12.4	13.0	12.8	13.4	13.8	11.5	12.1	11.9	12.5	12.9
6H	12.5	13.0	12.9	13.4	13.9	11.6	12.1	12.1	12.6	13.1
8H	12.5	12.9	13.0	13.4	13.9	11.7	12.2	12.2	12.6	13.1
12H	12.5	12.9	13.1	13.4	13.9	11.8	12.2	12.3	12.7	13.2
12H 4H	12.3	12.9	12.8	13.3	13.8	11.5	12.0	11.9	12.4	12.9
6H	12.4	12.9	12.9	13.3	13.8	11.6	12.1	12.1	12.5	13.0
8H	12.5	12.9	13.0	13.3	13.9	11.7	12.1	12.2	12.6	13.1
Variations with the observer position at spacings:										
S = 1.0H	+ 2.1 / - 5.4					+ 2.1 / - 4.8				
1.5H	+ 3.8 / - 5.6					+ 3.8 / - 4.9				
2.0H	+ 6.3 / - 2.6					+ 4.6 / - 1.7				

CIE Pub.117, 15825 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 9.6$)
Area: 0.1 m²

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-11-06

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.250m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:218.40V I:0.6717A P:145.14W PF:0.9893 Freq:49.99Hz Lamp Flux:15824.8x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

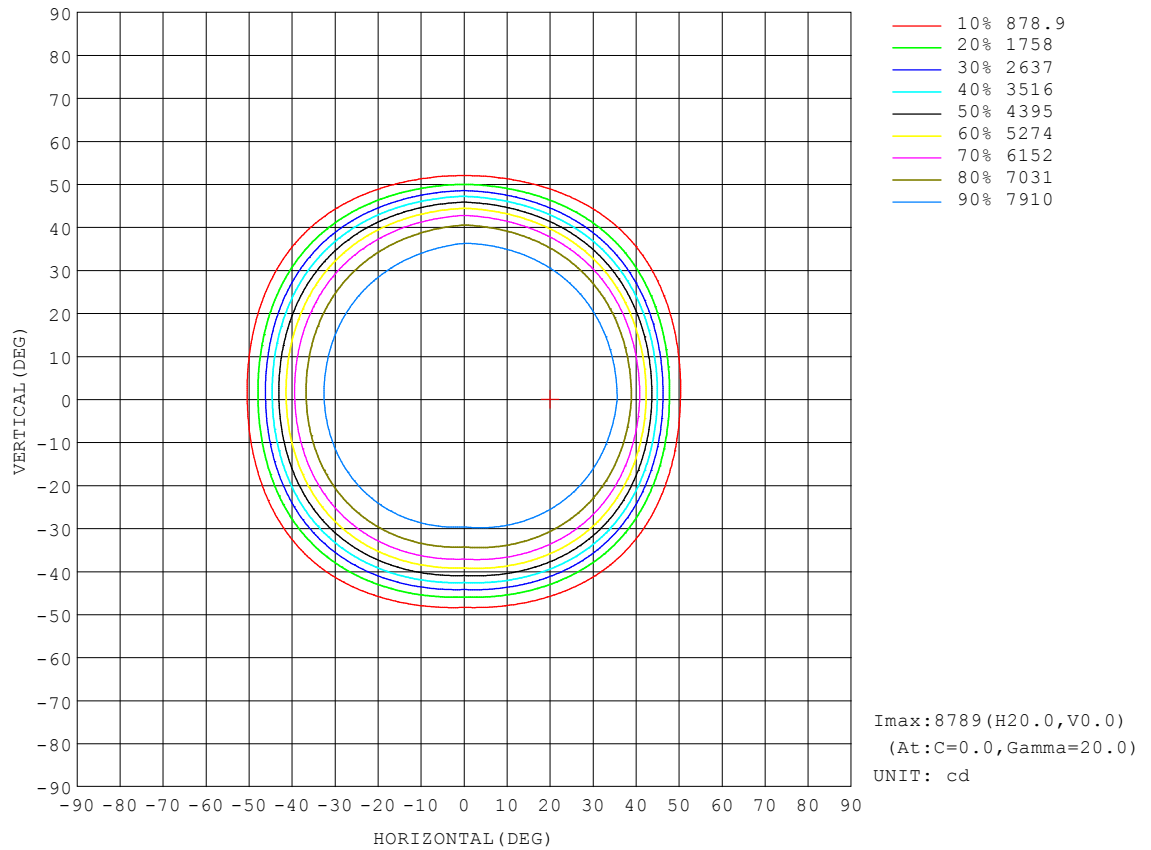
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	76	68	63	75	67	63	74	67	62	58
0.80	85	77	72	84	77	72	82	76	71	67
1.00	91	84	79	90	83	79	88	83	78	73
1.25	97	90	85	95	89	85	93	88	84	78
1.50	100	94	89	99	93	89	96	91	88	82
2.00	104	99	95	102	98	94	99	95	92	86
2.50	106	101	98	104	100	97	101	97	94	87
3.00	108	104	101	106	102	99	102	99	97	89
4.00	111	107	104	109	105	103	104	102	100	91
5.00	112	109	107	110	107	105	105	103	101	93
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2024-11-06

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.411
 Humidity: 65.0%
 Test Distance: 9.250m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:218.40V I:0.6717A P:145.14W PF:0.9893 Freq:49.99Hz Lamp Flux:15824.8x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

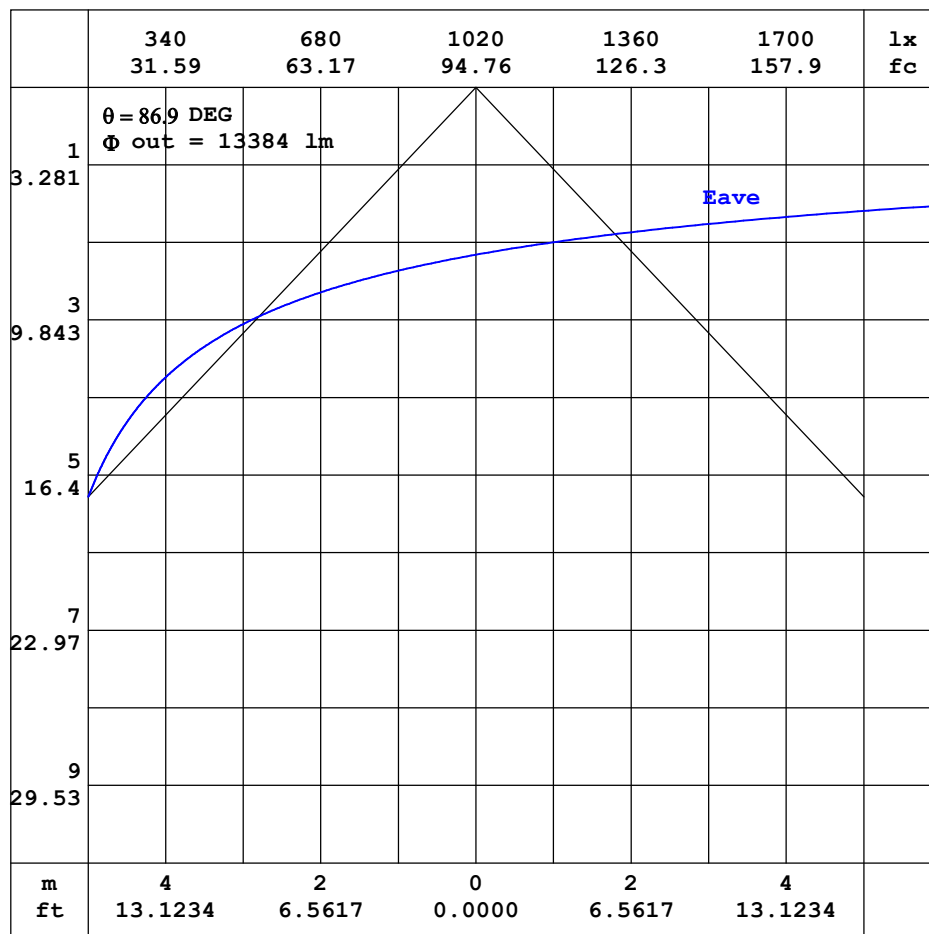


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-11-06

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.250m [K=1.0000]
Remarks:

AAI CURVES

Test:U:218.40V I:0.6717A P:145.14W PF:0.9893 Freq:49.99Hz Lamp Flux:15824.8x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



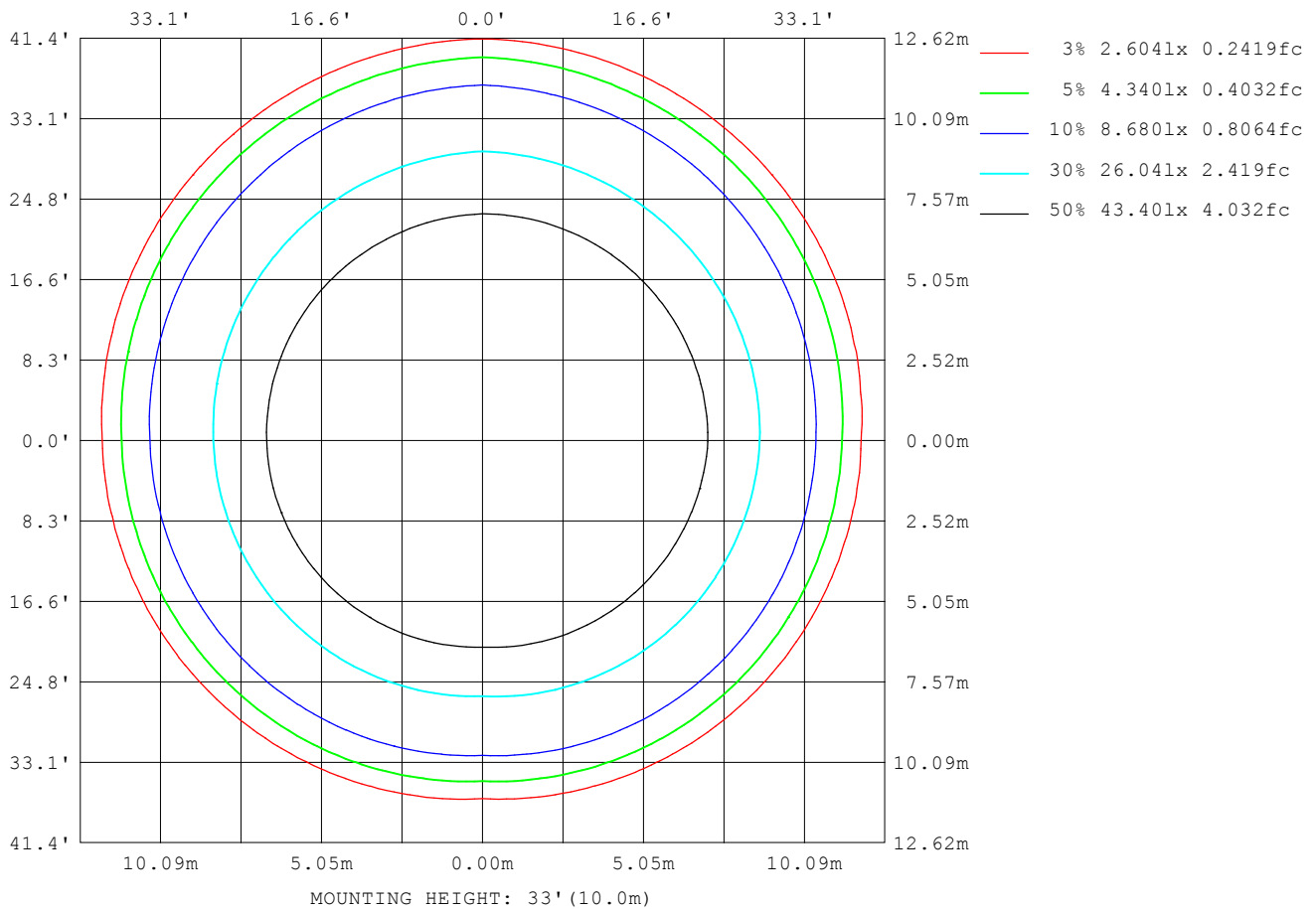
Note: The Curves indicate the illuminated area and the average illuminance when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2024-11-06

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity: 65.0%
Test Distance: 9.250m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:218.40V I:0.6717A P:145.14W PF:0.9893 Freq:49.99Hz Lamp Flux:15824.8x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-11-06

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.250m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:218.40V I:0.6717A P:145.14W PF:0.9893 Freq:49.99Hz Lamp Flux:15824.8x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

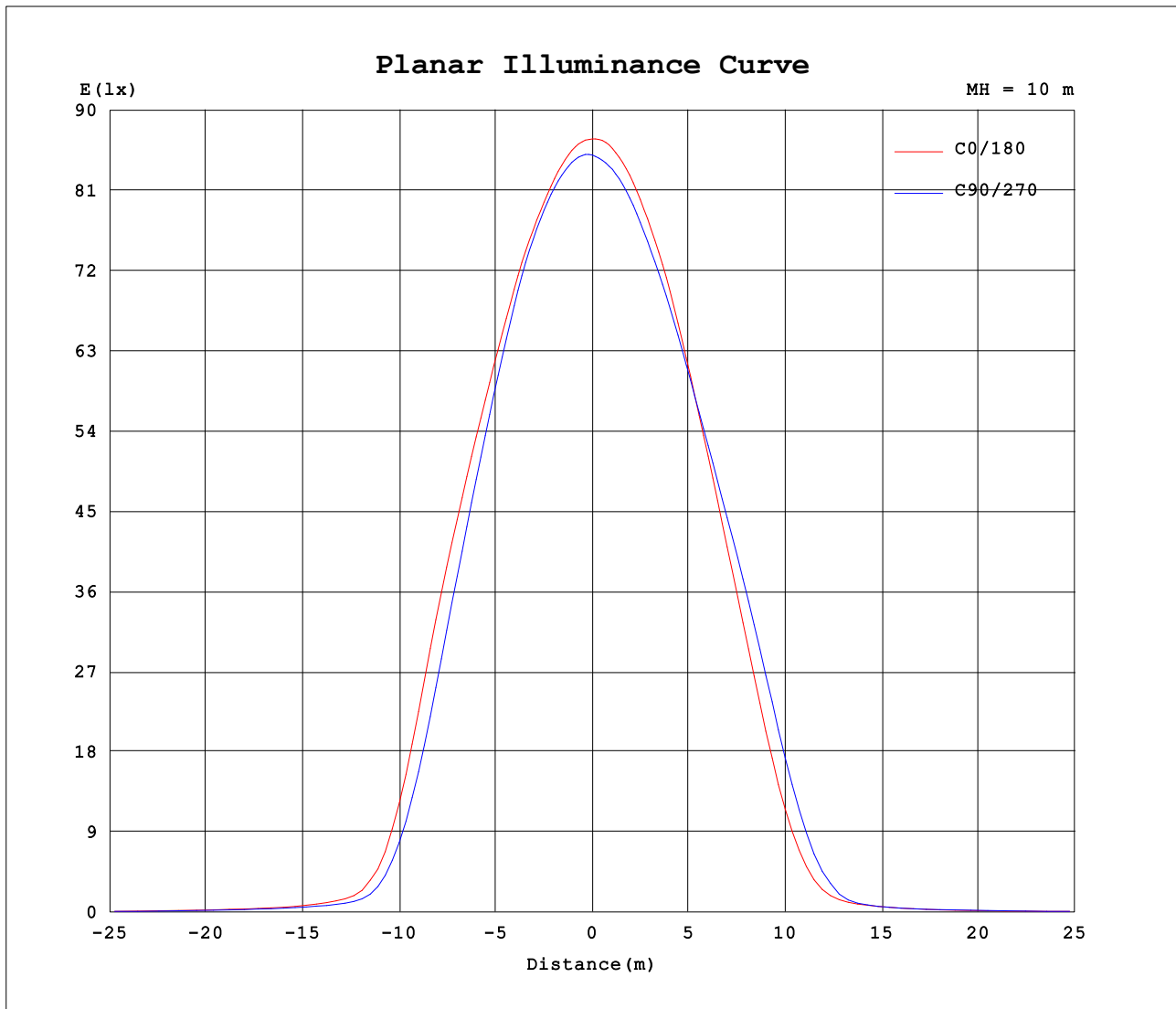
AvgL	cd/m2
L_0~180 (65) av	5864
L_0~180 (75) av	5452
L_0~180 (85) av	6570
L_90~270 (65) av	5479
L_90~270 (75) av	5197
L_90~270 (85) av	5887
L_45 (65) av	5576
L_45 (75) av	5271
L_45 (85) av	6144

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-11-06

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.250m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2024-11-06

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity: 65.0%
Test Distance: 9.250m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:218.40V I:0.6717A P:145.14W PF:0.9893 Freq:49.99Hz Lamp Flux:15824.8x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	90	180	270															
0	8680	8500	8680	8500															
5	8689	8548	8713	8472															
10	8706	8593	8738	8477															
15	8735	8633	8757	8477															
20	8789	8610	8761	8493															
25	8724	8376	8624	8481															
30	8539	7866	8244	8357															
35	8018	6861	7457	8054															
40	6583	4888	5902	7186															
45	3472	2226	3288	4921															
50	932	573	973	1738															
55	496	365	419	437															
60	350	291	270	288															
65	280	239	216	224															
70	216	191	172	172															
75	150	144	132	125															
80	92.1	107	96.5	79.8															
85	57.2	54.1	57.3	48.5															
90	42.5	38.4	39.2	37.2															
95	36.7	34.4	38.0	35.0															
100	34.8	34.2	42.7	39.0															
105	35.9	36.9	47.8	43.9															
110	38.9	40.9	53.1	49.1															
115	42.8	45.2	58.4	54.3															
120	47.6	50.2	63.8	59.6															
125	52.9	55.9	70.4	65.5															
130	59.2	63.0	79.3	72.8															
135	66.6	71.0	89.1	81.6															
140	73.9	78.2	98.0	90.3															
145	80.3	83.8	105	98.0															
150	86.3	89.6	112	105															
155	92.6	95.8	119	112															
160	99.2	102	127	120															
165	106	108	133	127															
170	112	114	135	132															
175	117	118	130	128															
180	121	122	123	121															

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-11-06

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.250m [K=1.0000]
Remarks: