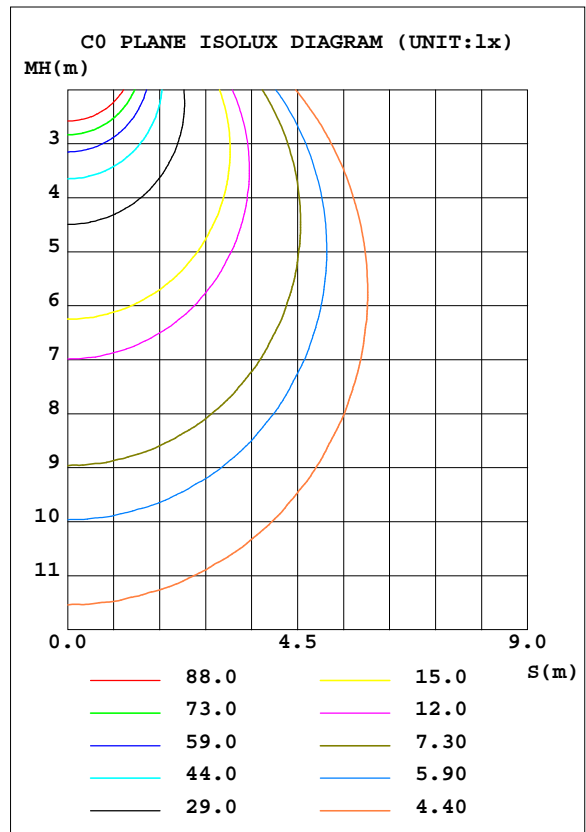
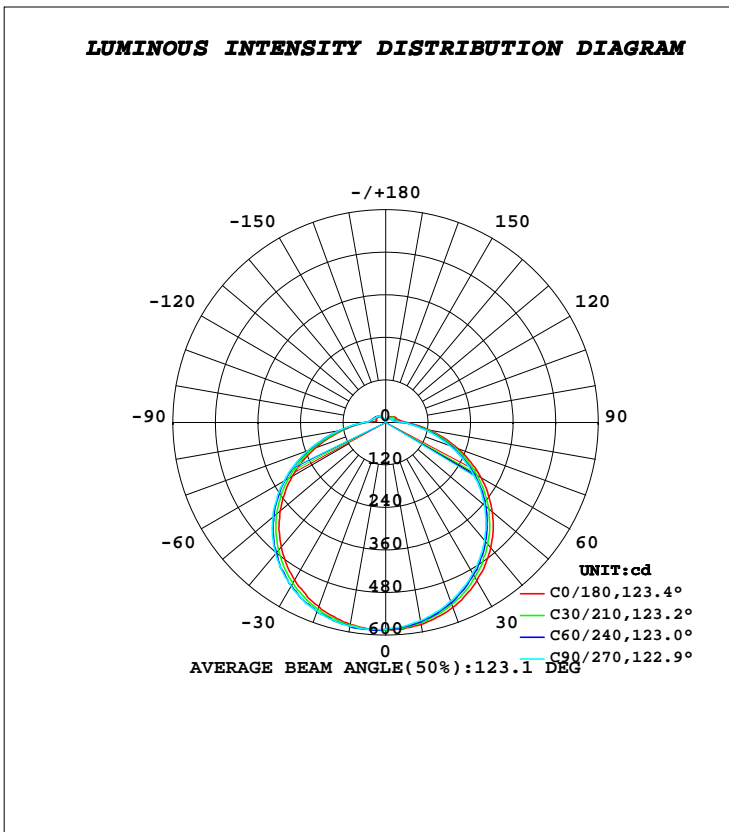


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.7V I:0.2344A P:25.07W PF:0.8936 Lamp Flux:2097.5x1 lm		
NAME: LED Flush Mount	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: ASL Global.	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	HDT14	Imax(cd)	587.2	S/MH(C0/180)	1.31
NOMINAL POWER(W)	25	LOR(%)	100.0	S/MH(C90/270)	1.26
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	2097.5	η UP, DN(C0-180)	3.6,44.4
NOMINAL FLUX(lm)	2097.5	CIE CLASS	DIRECT	η UP, DN(C180-360)	4.2,47.7
LAMPS INSIDE	1	η up(%)	7.8	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	119.7	η down(%)	92.2	CIBSE SHR MAX	1.50



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:曾本
Test Date:2023-6-12

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.269
Humidity:65.0%
Test Distance:7.350m [K=1.0000]
Remarks: LM79

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	578.3	572.4	567.4	565.9	578.5	581.9	583.2	576.2	0- 10	55.24	55.24	2.63,2.63
20	554.8	543.5	536.0	537.8	552.1	563.8	565.8	557.9	10- 20	159.7	214.9	10.2,10.2
30	514.9	500.4	491.2	494.7	514.1	528.1	533.7	522.6	20- 30	246.2	461.1	22,22
40	461.3	443.1	433.8	438.7	459.0	476.0	483.7	471.7	30- 40	304.8	765.9	36.5,36.5
50	392.9	374.3	364.5	369.2	389.0	407.1	415.6	404.1	40- 50	328.2	1094	52.2,52.2
60	310.5	292.4	283.3	288.0	304.4	322.7	330.6	321.5	50- 60	312.3	1406	67.1,67.1
70	217.9	202.0	193.4	198.1	210.4	226.2	233.8	226.6	60- 70	258.0	1664	79.4,79.4
80	125.8	115.0	107.9	111.5	119.1	128.8	134.1	131.1	70- 80	175.8	1840	87.7,87.7
90	59.79	45.95	52.33	53.59	56.12	59.00	61.20	60.52	80- 90	92.81	1933	92.2,92.2
100	39.85	29.84	23.83	34.94	26.83	40.13	42.02	33.65	90-100	46.06	1979	94.4,94.4
110	32.32	24.37	20.54	29.55	28.95	34.75	33.88	28.61	100-110	32.83	2012	95.9,95.9
120	30.89	23.94	21.12	27.78	28.34	32.12	31.12	28.37	110-120	28.55	2040	97.3,97.3
130	26.05	20.37	17.51	23.61	24.73	27.31	27.06	24.59	120-130	23.42	2064	98.4,98.4
140	20.92	15.69	13.75	19.16	19.80	21.06	21.26	19.97	130-140	16.72	2081	99.2,99.2
150	13.76	9.592	8.770	13.44	13.48	13.91	14.11	13.70	140-150	10.02	2091	99.7,99.7
160	6.568	4.145	4.449	8.628	7.264	9.050	8.688	8.767	150-160	4.516	2095	99.9,99.9
170	2.598	3.356	5.197	6.830	4.798	7.206	6.588	6.783	160-170	1.808	2097	100,100
180	2.330	6.032	5.893	5.788	2.303	5.966	5.790	5.820	170-180	0.5313	2098	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

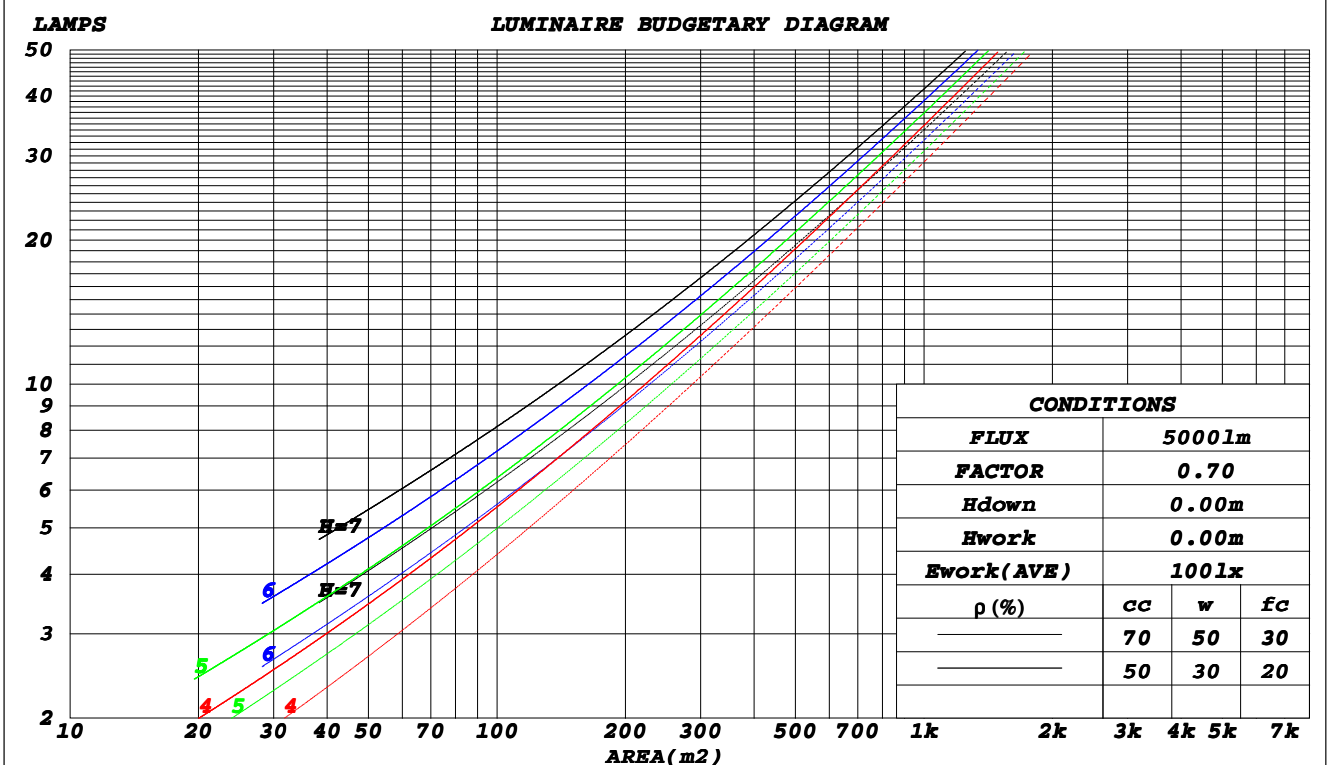
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:曾本
Test Date:2023-6-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.269
Humidity:65.0%
Test Distance:7.350m [K=1.0000]
Remarks: LM79

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:119.7V I:0.2344A P:25.07W PF:0.8936 Lamp Flux:2097.5x1 lm		
NAME: 14寸超薄	TYPE:超薄	WEIGHT:
DIM.:	SPEC.:14寸	SERIAL No.:
MFR.: WORBEST	SUR.:	PROTECTION 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	1.17	1.17	1.17	1.14	1.14	1.14	1.07	1.07	1.07	1.01	1.01	1.01	.95	.95	.95	.92
1.0	1.00	.95	.91	.97	.93	.89	.91	.88	.84	.86	.83	.80	.81	.79	.77	.74
2.0	.86	.79	.73	.84	.77	.71	.79	.73	.68	.74	.70	.66	.70	.66	.63	.60
3.0	.75	.67	.60	.73	.65	.59	.69	.62	.57	.65	.59	.55	.61	.57	.53	.50
4.0	.66	.57	.50	.64	.56	.49	.61	.53	.48	.58	.51	.46	.54	.49	.45	.42
5.0	.59	.50	.43	.57	.49	.42	.54	.47	.41	.51	.45	.40	.49	.43	.39	.36
6.0	.53	.44	.37	.51	.43	.36	.49	.41	.36	.46	.40	.35	.44	.38	.34	.31
7.0	.48	.39	.32	.47	.38	.32	.44	.37	.31	.42	.35	.30	.40	.34	.30	.28
8.0	.43	.35	.29	.42	.34	.28	.40	.33	.28	.39	.32	.27	.37	.31	.27	.24
9.0	.40	.31	.26	.39	.31	.25	.37	.30	.25	.35	.29	.24	.34	.28	.24	.22
10.0	.37	.29	.23	.36	.28	.23	.34	.27	.23	.33	.27	.22	.31	.26	.22	.20



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: 曾本
 Test Date: 2023-6-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.269
 Humidity: 65.0%
 Test Distance: 7.350m [K=1.0000]
 Remarks: LM79

WEC AND CCEC

Test:U:119.7V I:0.2344A P:25.07W PF:0.8936 Lamp Flux:2097.5x1 lm		
NAME: 14寸超薄	TYPE:超薄	WEIGHT:
DIM.:	SPEC.:14寸	SERIAL No.:
MFR.: WORBEST	SUR.:	PROTECTION 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						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.347	.197	.063	.338	.193	.061	.320	.183	.059	.303	.175	.056	.288	.167	.054	
2.0	.314	.172	.053	.305	.168	.052	.289	.161	.050	.274	.154	.048	.261	.147	.046	
3.0	.284	.151	.045	.277	.148	.045	.262	.142	.043	.249	.137	.042	.237	.131	.041	
4.0	.259	.135	.040	.253	.132	.039	.240	.127	.038	.228	.122	.037	.216	.118	.036	
5.0	.238	.121	.035	.232	.119	.035	.220	.115	.034	.209	.110	.033	.199	.106	.032	
6.0	.219	.110	.031	.214	.108	.031	.203	.104	.030	.193	.100	.030	.184	.097	.029	
7.0	.203	.100	.028	.198	.099	.028	.188	.095	.027	.180	.092	.027	.171	.089	.026	
8.0	.189	.092	.026	.184	.091	.026	.176	.088	.025	.168	.085	.024	.160	.082	.024	
9.0	.176	.085	.024	.172	.084	.024	.164	.081	.023	.157	.079	.023	.150	.076	.022	
10.0	.166	.079	.022	.162	.078	.022	.155	.076	.021	.148	.073	.021	.141	.071	.020	

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						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.250	.250	.250	.214	.214	.214	.146	.146	.146	.084	.084	.084	.027	.027	.027	
1.0	.243	.216	.192	.208	.185	.165	.142	.128	.114	.082	.074	.066	.026	.024	.021	
2.0	.236	.192	.156	.202	.166	.135	.138	.115	.094	.080	.067	.055	.026	.022	.018	
3.0	.228	.175	.133	.196	.151	.115	.134	.105	.081	.078	.061	.048	.025	.020	.016	
4.0	.221	.162	.118	.189	.140	.103	.130	.098	.072	.075	.057	.043	.024	.019	.014	
5.0	.213	.152	.108	.183	.132	.094	.126	.092	.066	.073	.054	.039	.024	.018	.013	
6.0	.206	.144	.100	.177	.125	.087	.122	.087	.062	.071	.051	.037	.023	.017	.012	
7.0	.199	.137	.094	.171	.119	.082	.118	.084	.058	.069	.049	.035	.022	.016	.011	
8.0	.192	.132	.090	.165	.114	.079	.114	.080	.056	.067	.047	.033	.022	.016	.011	
9.0	.186	.127	.087	.160	.110	.076	.111	.077	.054	.065	.046	.032	.021	.015	.011	
10.0	.180	.123	.084	.155	.106	.074	.108	.075	.052	.063	.044	.031	.020	.015	.010	

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: 曾本
 Test Date: 2023-6-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.269
 Humidity: 65.0%
 Test Distance: 7.350m [K=1.0000]
 Remarks: LM79

Uncorrected UGR Table

Test:U:119.7V I:0.2344A P:25.07W PF:0.8936 Lamp Flux:2097.5x1 lm										
NAME: 14寸超薄					TYPE:超薄			WEIGHT:		
DIM.:					SPEC.:14寸			SERIAL No.:		
MFR.: WORBEST					SUR.:			PROTECTION 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	18.7	20.1	19.0	20.5	20.8	18.3	19.8	18.7	20.1	20.5
3H	20.5	21.9	20.9	22.3	22.7	20.1	21.4	20.5	21.8	22.2
4H	21.4	22.7	21.8	23.1	23.5	20.9	22.1	21.3	22.5	23.0
6H	22.2	23.4	22.7	23.8	24.3	21.6	22.8	22.0	23.2	23.7
8H	22.6	23.8	23.0	24.2	24.6	21.9	23.1	22.4	23.5	24.0
12H	23.0	24.1	23.4	24.5	25.0	22.3	23.4	22.7	23.8	24.3
4H 2H	19.3	20.6	19.7	21.0	21.4	19.0	20.3	19.4	20.7	21.1
3H	21.3	22.5	21.8	22.9	23.4	20.9	22.1	21.4	22.5	23.0
4H	22.4	23.4	22.8	23.9	24.4	21.9	22.9	22.4	23.4	23.9
6H	23.3	24.2	23.8	24.7	25.3	22.8	23.7	23.3	24.2	24.7
8H	23.8	24.7	24.3	25.2	25.7	23.2	24.0	23.7	24.5	25.1
12H	24.3	25.1	24.8	25.6	26.2	23.6	24.4	24.2	24.9	25.5
8H 4H	22.7	23.5	23.2	24.0	24.6	22.3	23.1	22.8	23.6	24.2
6H	23.9	24.6	24.4	25.1	25.7	23.4	24.1	23.9	24.6	25.2
8H	24.5	25.1	25.1	25.7	26.3	23.9	24.6	24.5	25.1	25.8
12H	25.1	25.7	25.7	26.3	26.9	24.5	25.1	25.1	25.7	26.3
12H 4H	22.7	23.5	23.3	24.0	24.6	22.3	23.1	22.9	23.7	24.2
6H	24.0	24.6	24.6	25.2	25.8	23.5	24.2	24.1	24.7	25.3
8H	24.7	25.2	25.3	25.8	26.4	24.2	24.7	24.7	25.3	25.9
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.1 / - 0.3					+ 0.1 / - 0.4				

CIE Pub.117 Corrected 2098 lm Total Lamp Luminous Flux.(8log(F/F0) = 2.6)

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:曾本
 Test Date:2023-6-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.269
 Humidity:65.0%
 Test Distance:7.350m [K=1.0000]
 Remarks: LM79

UTILIZATION FACTORS TABLE

Test:U:119.7V I:0.2344A P:25.07W PF:0.8936 Lamp Flux:2097.5x1 lm		
NAME: 14寸超薄	TYPE:超薄	WEIGHT:
DIM.:	SPEC.:14寸	SERIAL No.:
MFR.: WORBEST	SUR.:	PROTECTION ANGLE:

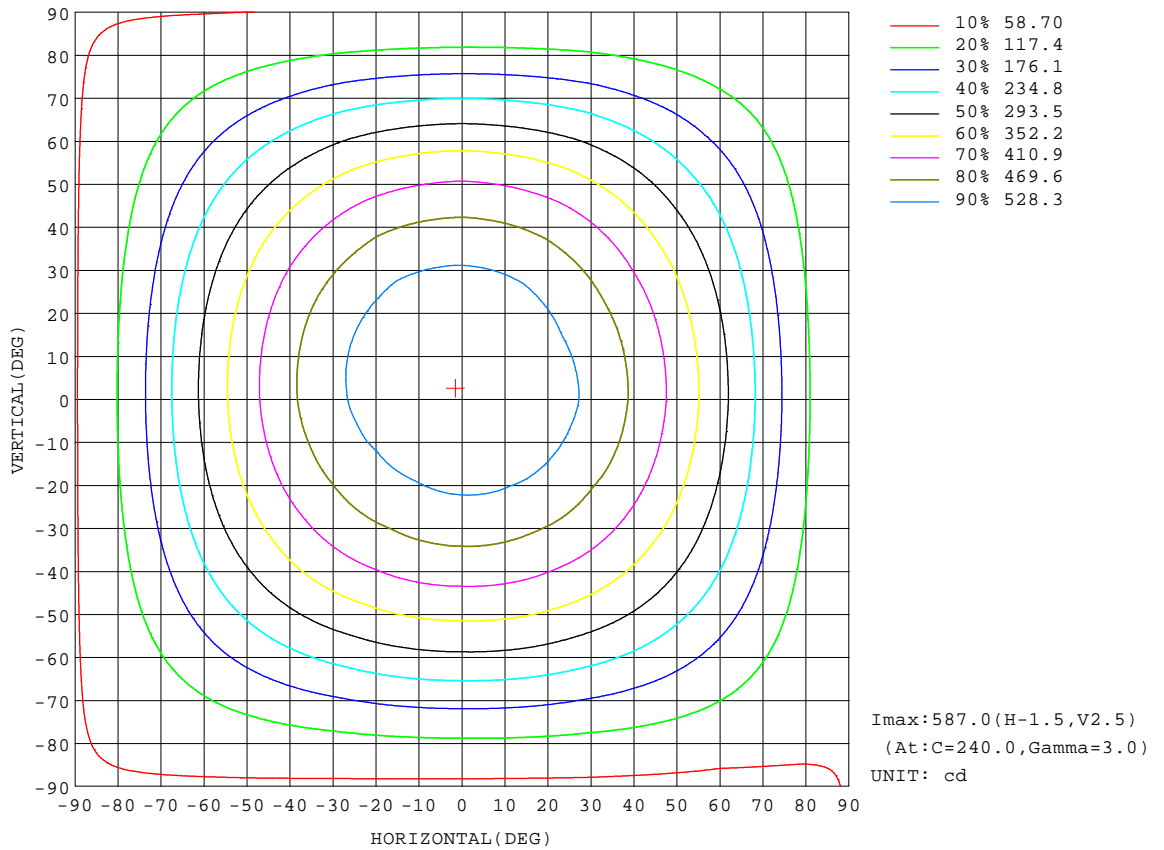
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	53	41	33	52	40	33	50	40	33	26
0.80	62	50	42	61	49	42	59	48	41	34
1.00	70	58	51	69	58	50	66	59	49	41
1.25	78	66	58	76	65	58	72	63	56	48
1.50	83	72	64	81	70	63	77	68	62	53
2.00	90	80	73	87	78	72	83	75	70	60
2.50	94	85	78	91	83	77	86	80	74	64
3.00	98	90	83	95	88	82	90	84	79	68
4.00	102	95	90	99	93	88	93	88	84	73
5.00	105	99	94	102	96	92	96	91	88	76
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 曾本
Test Date: 2023-6-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.269
Humidity: 65.0%
Test Distance: 7.350m [K=1.0000]
Remarks: LM79

ISOCANDELA DIAGRAM

Test:U:119.7V I:0.2344A P:25.07W PF:0.8936 Lamp Flux:2097.5x1 lm		
NAME: 14寸超薄	TYPE:超薄	WEIGHT:
DIM.:	SPEC.:14寸	SERIAL No.:
MFR.: WORBEST	SUR.:	PROTECTION ANGLE:

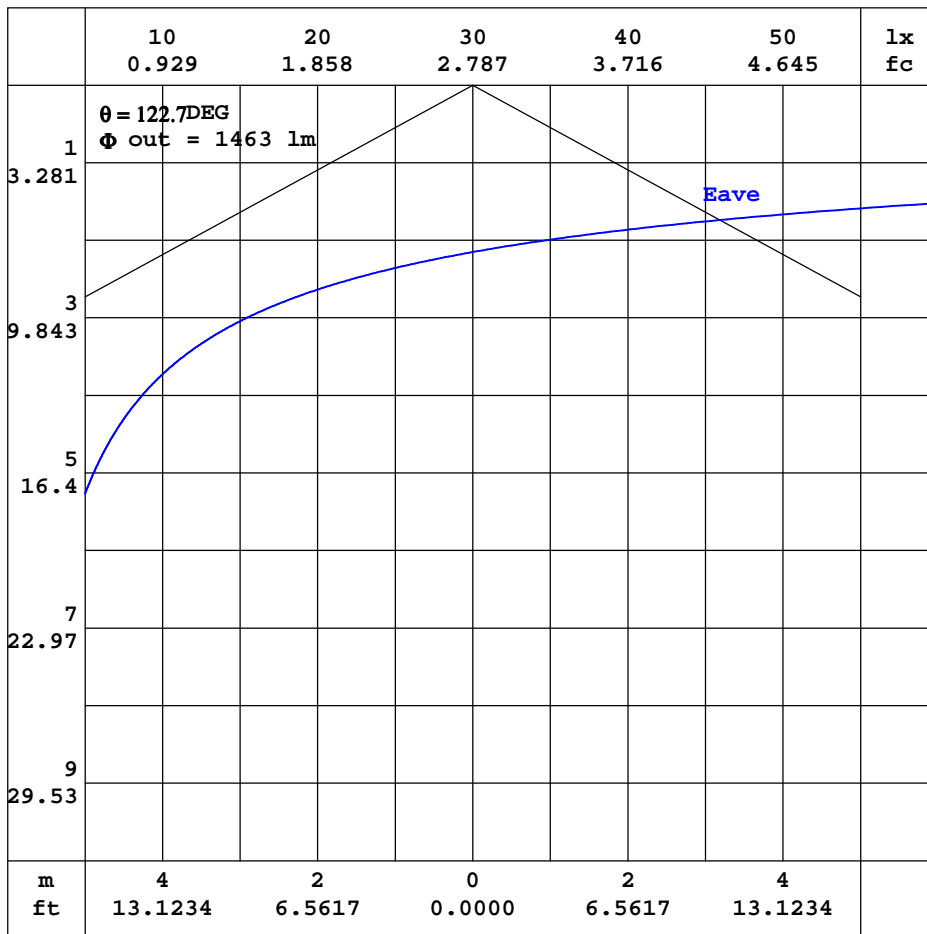


C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 曾本
Test Date: 2023-6-12

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.269
Humidity: 65.0%
Test Distance: 7.350m [K=1.0000]
Remarks: LM79

AAI CURVES

Test:U:119.7V I:0.2344A P:25.07W PF:0.8936 Lamp Flux:2097.5x1 lm		
NAME: 14寸超薄	TYPE:超薄	WEIGHT:
DIM.:	SPEC.:14寸	SERIAL No.:
MFR.: WORBEST	SUR.:	PROTECTION ANGLE:



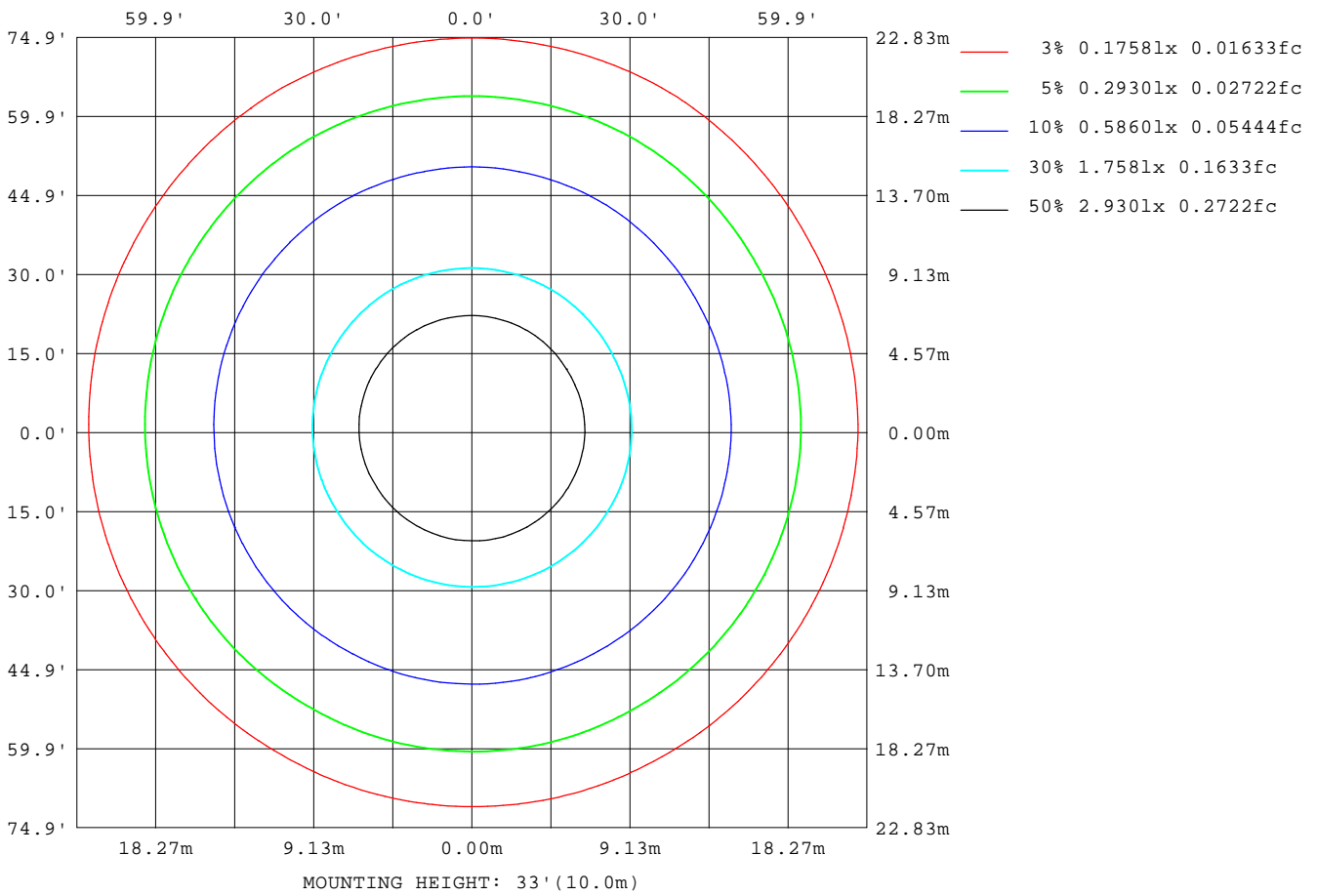
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: 曾本
 Test Date: 2023-6-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.269
 Humidity: 65.0%
 Test Distance: 7.350m [K=1.0000]
 Remarks: LM79

ISOLUX DIAGRAM

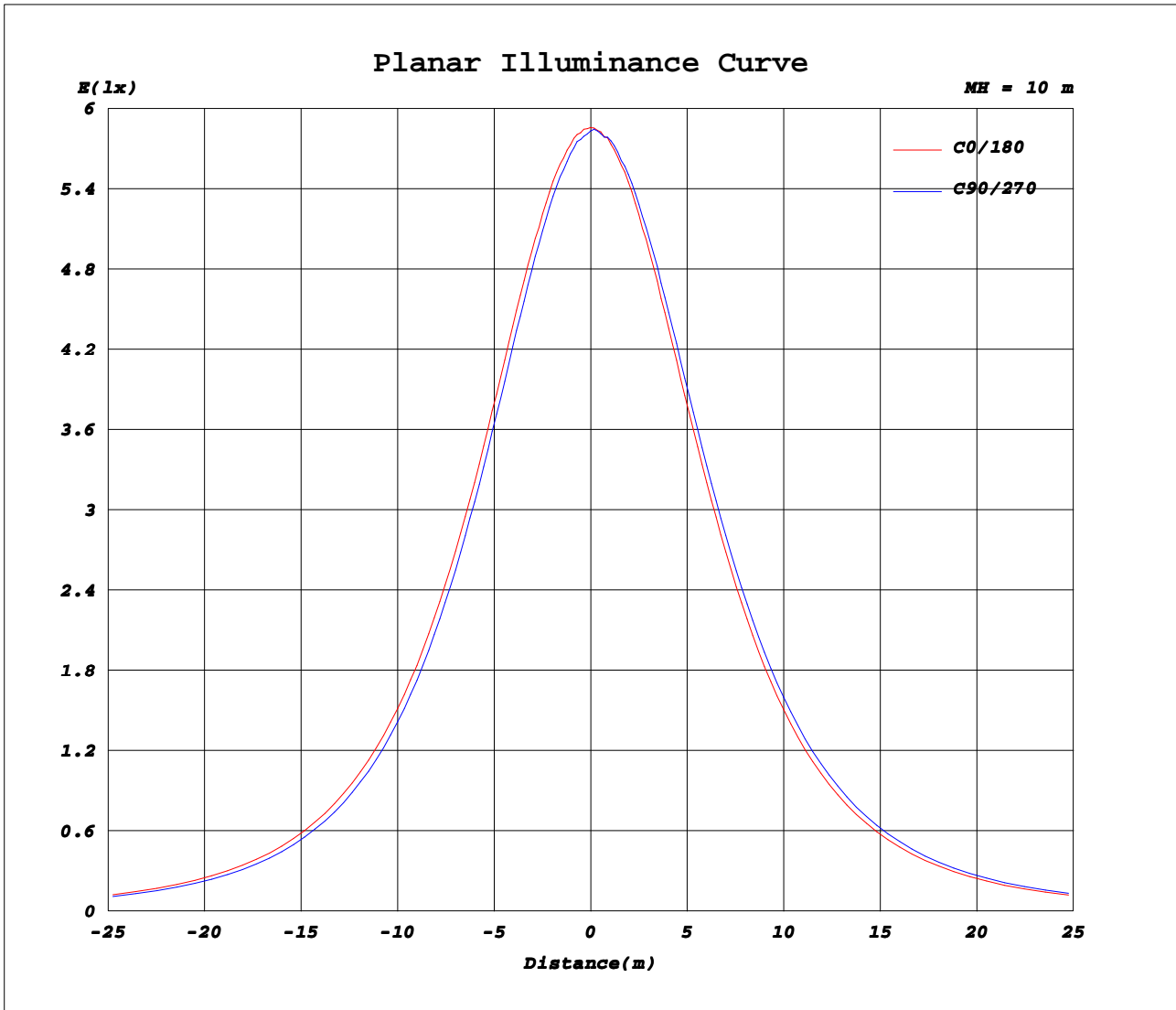
Test:U:119.7V I:0.2344A P:25.07W PF:0.8936 Lamp Flux:2097.5x1 lm		
NAME: 14寸超薄	TYPE:超薄	WEIGHT:
DIM.:	SPEC.:14寸	SERIAL No.:
MFR.: WORBEST	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 曾本
Test Date: 2023-6-12

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.269
Humidity: 65.0%
Test Distance: 7.350m [K=1.0000]
Remarks: LM79

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 曾本
Test Date: 2023-6-12

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.269
Humidity: 65.0%
Test Distance: 7.350m [K=1.0000]
Remarks: LM79

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:119.7V I:0.2344A P:25.07W PF:0.8936 Lamp Flux:2097.5x1 lm		
NAME: 14寸超薄	TYPE:超薄	WEIGHT:
DIM.:	SPEC.:14寸	SERIAL No.:
MFR.: WORBEST	SUR.:	PROTECTION ANGLE:

Table--1

UNIT: cd

C (DEG) \ γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330							
0	586	586	584	583	580	578	586	586	584	583	580	578							
5	584	582	579	577	574	574	585	585	586	585	581	577							
10	578	574	571	567	565	567	579	580	584	583	579	573							
15	567	561	558	554	552	555	567	571	578	576	573	565							
20	555	546	541	536	536	540	552	560	568	566	562	553							
25	536	527	521	515	515	520	535	544	552	552	547	537							
30	515	505	496	491	492	498	514	524	532	534	529	516							
35	490	478	468	464	465	472	489	500	508	511	506	493							
40	461	449	438	434	434	443	459	471	481	484	478	465							
45	429	415	404	401	400	410	426	438	448	452	446	433							
50	393	380	369	364	364	374	389	402	413	416	410	398							
55	353	340	330	326	325	336	348	361	372	375	371	358							
60	310	298	287	283	283	293	304	317	329	331	328	315							
65	265	253	242	239	239	248	258	270	281	283	282	268							
70	218	207	197	193	194	202	210	221	232	234	233	221							
75	170	161	153	149	149	157	163	172	181	183	182	173							
80	126	119	111	108	109	114	119	125	132	134	135	128							
85	86.7	80.2	76.1	74.3	75.0	78.8	82.6	85.6	90.1	91.2	92.8	87.2							
90	59.8	43.3	48.6	52.3	52.8	54.4	56.1	57.7	60.3	61.2	62.1	59.0							
95	46.3	36.2	31.1	34.0	39.7	42.8	33.4	44.5	46.4	47.0	43.4	43.4							
100	39.8	33.4	26.3	23.8	34.7	35.2	26.8	38.6	41.7	42.0	34.9	32.4							
105	35.1	30.4	22.7	21.0	31.4	29.4	26.7	35.3	38.5	37.6	32.4	27.3							
110	32.3	28.1	20.7	20.5	30.8	28.3	28.9	33.7	35.8	33.9	30.5	26.7							
115	31.6	27.7	20.7	21.2	29.7	28.4	29.5	33.2	33.6	32.1	30.4	27.9							
120	30.9	27.5	20.3	21.1	27.9	27.7	28.3	31.9	32.4	31.1	29.3	27.4							
125	28.5	26.3	19.2	19.1	25.1	26.3	26.7	29.6	30.3	29.5	27.2	25.4							
130	26.1	23.4	17.3	17.5	22.8	24.4	24.7	27.0	27.6	27.1	25.1	24.1							
135	23.5	20.3	15.5	15.8	20.4	22.5	22.5	24.1	24.5	24.3	22.7	22.3							
140	20.9	18.0	13.4	13.8	18.4	19.9	19.8	21.1	21.0	21.3	20.1	19.9							
145	17.1	14.5	10.9	11.4	15.9	16.9	16.8	17.6	17.4	17.8	16.8	17.0							
150	13.8	11.0	8.17	8.77	13.2	13.7	13.5	13.8	14.0	14.1	13.7	13.7							
155	8.91	7.28	5.37	6.08	10.2	10.7	9.68	10.8	10.8	10.7	10.4	10.7							
160	6.57	4.80	3.49	4.45	8.53	8.73	7.26	9.10	9.00	8.69	8.73	8.80							
165	4.33	3.21	2.67	4.59	7.39	7.53	6.12	7.98	8.03	7.34	7.47	7.62							
170	2.60	2.50	4.21	5.20	6.82	6.84	4.80	7.22	7.19	6.59	6.65	6.92							
175	2.08	4.07	6.34	6.34	6.41	6.45	3.59	6.49	6.16	5.93	6.10	6.23							
180	2.33	6.00	6.07	5.89	5.89	5.69	2.30	5.90	6.04	5.79	5.95	5.69							

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: 曾本
 Test Date: 2023-6-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.269
 Humidity: 65.0%
 Test Distance: 7.350m [K=1.0000]
 Remarks: LM79