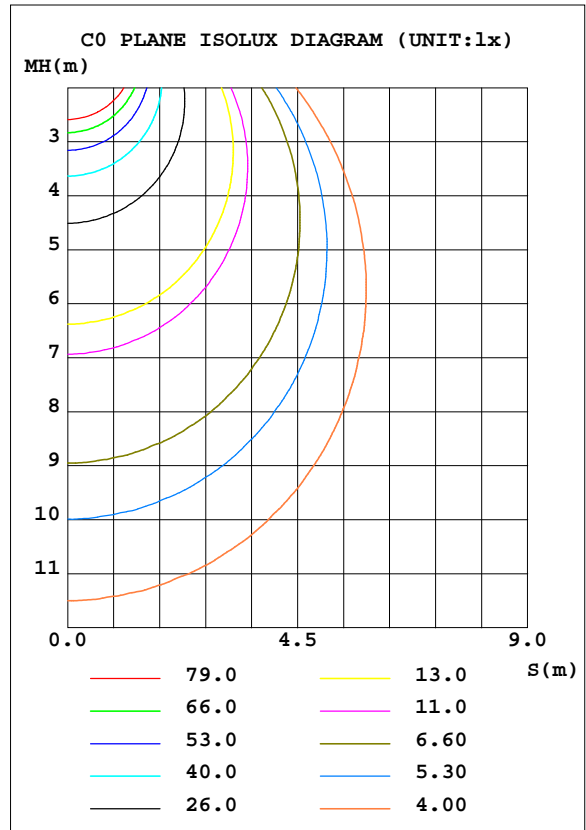
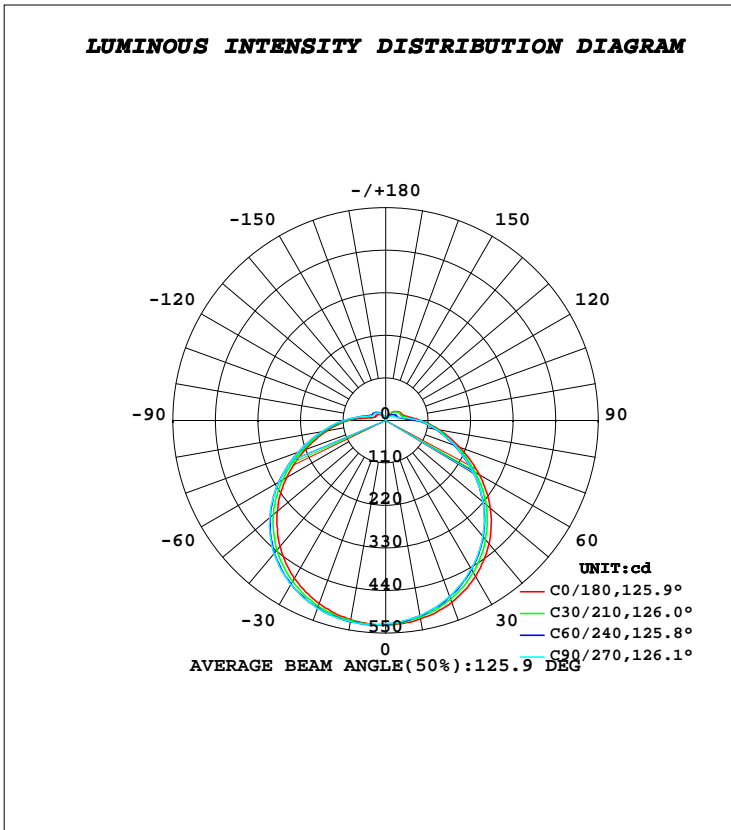


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.7V I:0.2343A P:25.00W PF:0.8918 Lamp Flux:2080.4x1 lm		
NAME: LED Flush Mount	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: ASL Global.	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 83.20 lm/W			
MODEL	HDT18	I _{max} (cd)	530.1	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)	2080.4	η UP, DN(C0-180)	4.8, 42.5
NOMINAL FLUX(lm)	2080.4	CIE CLASS	SEMI-D.	η UP, DN(C180-360)	5.8, 46.9
LAMPS INSIDE	1	η up(%)	10.6	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	119.7	η down(%)	89.4	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	521.2	514.7	512.5	514.8	523.0	526.8	528.1	522.6	0- 10	49.97	49.97	2.4,2.4
20	500.3	488.5	484.5	490.0	503.9	512.4	517.3	508.0	10- 20	144.6	194.6	9.35,9.35
30	465.3	448.9	442.3	452.4	471.9	485.2	490.3	478.3	20- 30	223.7	418.3	20.1,20.1
40	416.0	396.7	390.3	404.2	424.7	443.0	449.3	432.7	30- 40	278.4	696.8	33.5,33.5
50	352.4	334.0	329.1	343.8	365.6	384.6	391.5	372.0	40- 50	301.6	998.4	48,48
60	279.2	262.5	258.9	275.3	296.3	313.4	319.5	298.9	50- 60	290.2	1289	61.9,61.9
70	204.1	192.0	190.4	205.7	221.7	235.9	240.3	220.7	60- 70	248.1	1537	73.9,73.9
80	140.8	133.1	132.3	144.1	154.4	163.9	167.5	152.7	70- 80	190.3	1727	83,83
90	91.49	80.05	85.92	92.97	96.86	104.6	108.0	98.87	80- 90	131.9	1859	89.4,89.4
100	59.32	45.76	43.53	47.99	39.83	61.39	60.51	59.10	90-100	78.51	1937	93.1,93.1
110	45.57	36.24	25.64	27.17	29.34	40.29	37.30	41.09	100-110	44.79	1982	95.3,95.3
120	42.94	34.71	23.50	23.40	28.09	37.08	34.95	38.73	110-120	33.95	2016	96.9,96.9
130	36.55	29.43	18.28	19.25	24.78	32.58	30.65	32.78	120-130	27.67	2044	98.2,98.2
140	28.19	22.64	12.15	14.14	20.00	25.67	24.05	25.10	130-140	19.47	2063	99.2,99.2
150	17.59	13.79	6.186	8.315	13.44	17.18	15.81	16.04	140-150	11.23	2075	99.7,99.7
160	6.911	4.928	2.591	4.123	5.485	7.760	6.911	6.487	150-160	4.491	2079	99.9,99.9
170	3.180	2.253	2.040	2.852	2.096	3.519	2.982	3.305	160-170	1.154	2080	100,100
180	2.373	1.559	2.070	2.456	2.368	1.651	1.948	2.474	170-180	0.2447	2080	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

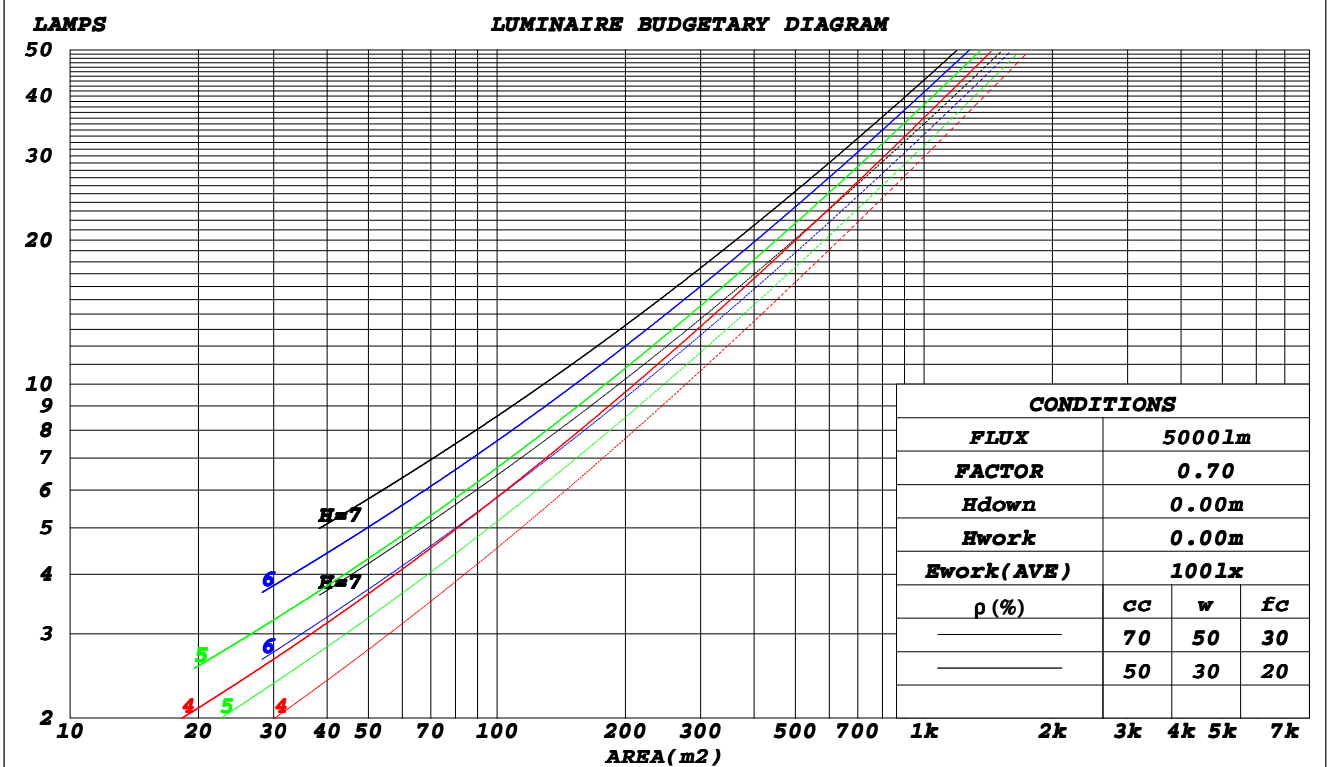
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:曾本
Test Date:2023-6-12

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:0.2343A P:25.00W PF:0.8918 Lamp Flux:2080.4x1 lm		
NAME: 18寸超薄	TYPE:超薄	WEIGHT:
DIM.:	SPEC.:18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	1.13	1.13	1.13	1.05	1.05	1.05	.98	.98	.98	.92	.92	.92	.89
1.0	.98	.93	.88	.95	.90	.86	.88	.85	.81	.83	.80	.77	.77	.75	.73	.70
2.0	.84	.77	.70	.81	.74	.68	.76	.70	.65	.71	.66	.62	.67	.63	.59	.56
3.0	.73	.64	.57	.71	.63	.56	.66	.59	.54	.62	.56	.51	.58	.53	.49	.46
4.0	.64	.55	.48	.62	.54	.47	.58	.51	.45	.55	.48	.43	.51	.46	.42	.39
5.0	.57	.48	.41	.55	.47	.40	.52	.44	.39	.49	.42	.37	.46	.40	.36	.33
6.0	.51	.42	.35	.50	.41	.35	.47	.39	.34	.44	.37	.32	.42	.36	.31	.29
7.0	.46	.37	.31	.45	.36	.30	.42	.35	.29	.40	.33	.29	.38	.32	.28	.25
8.0	.42	.33	.27	.41	.33	.27	.39	.31	.26	.37	.30	.25	.35	.29	.25	.22
9.0	.39	.30	.24	.38	.30	.24	.36	.28	.23	.34	.27	.23	.32	.26	.22	.20
10.0	.36	.27	.22	.35	.27	.22	.33	.26	.21	.31	.25	.21	.30	.24	.20	.18



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:0.2343A P:25.00W PF:0.8918 Lamp Flux:2080.4x1 lm		
NAME: 18寸超薄	TYPE:超薄	WEIGHT:
DIM.:	SPEC.:18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	.371	.211	.067	.360	.205	.065	.341	.195	.062	.323	.186	.060	.306	.177	.057	
2.0	.326	.179	.055	.317	.175	.054	.299	.166	.052	.283	.159	.050	.268	.152	.048	
3.0	.292	.156	.047	.284	.152	.046	.268	.145	.044	.254	.139	.043	.240	.133	.041	
4.0	.265	.138	.040	.257	.135	.040	.243	.129	.038	.230	.123	.037	.217	.118	.036	
5.0	.241	.123	.036	.235	.120	.035	.222	.115	.034	.210	.111	.033	.199	.106	.032	
6.0	.222	.111	.032	.216	.109	.031	.204	.105	.030	.193	.100	.029	.183	.096	.029	
7.0	.205	.101	.029	.199	.099	.028	.189	.095	.027	.179	.092	.027	.169	.088	.026	
8.0	.190	.093	.026	.185	.091	.026	.176	.088	.025	.166	.084	.024	.158	.081	.024	
9.0	.178	.086	.024	.173	.084	.024	.164	.081	.023	.156	.078	.022	.148	.075	.022	
10.0	.166	.080	.022	.162	.078	.022	.154	.075	.021	.146	.073	.021	.139	.070	.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																
1.0	.272	.272	.272	.232	.232	.232	.158	.158	.158	.091	.091	.091	.029	.029	.029	
2.0	.259	.214	.176	.222	.184	.152	.152	.127	.106	.088	.074	.062	.028	.024	.020	
3.0	.252	.197	.154	.216	.170	.133	.148	.118	.094	.086	.069	.055	.027	.022	.018	
4.0	.244	.184	.139	.209	.159	.121	.144	.111	.085	.083	.065	.050	.027	.021	.017	
5.0	.236	.174	.129	.203	.151	.112	.140	.105	.079	.081	.062	.047	.026	.020	.015	
6.0	.229	.166	.122	.197	.144	.106	.136	.101	.075	.079	.059	.045	.025	.019	.015	
7.0	.222	.160	.116	.191	.138	.101	.132	.097	.072	.077	.057	.043	.025	.019	.014	
8.0	.215	.154	.112	.185	.134	.098	.128	.094	.069	.074	.055	.041	.024	.018	.014	
9.0	.209	.149	.109	.180	.129	.095	.125	.091	.067	.073	.054	.040	.023	.018	.013	
10.0	.203	.145	.106	.175	.126	.093	.121	.089	.066	.071	.052	.039	.023	.017	.013	

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:0.2343A P:25.00W PF:0.8918 Lamp Flux:2080.4x1 lm		
NAME: 18寸超薄	TYPE:超薄	WEIGHT:
DIM.:	SPEC.:18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	17.9	19.4	18.3	19.7	20.2	17.6	19.0	18.0	19.4	19.8
3H	19.9	21.2	20.3	21.6	22.1	19.5	20.8	19.9	21.3	21.7
4H	20.9	22.2	21.3	22.6	23.1	20.5	21.8	21.0	22.2	22.7
6H	21.9	23.1	22.4	23.6	24.1	21.6	22.8	22.0	23.2	23.7
8H	22.5	23.7	23.0	24.2	24.7	22.1	23.3	22.6	23.8	24.3
12H	23.2	24.3	23.7	24.8	25.3	22.8	23.9	23.3	24.4	24.9
4H 2H	18.5	19.8	19.0	20.2	20.7	18.3	19.5	18.7	20.0	20.5
3H	20.7	21.8	21.2	22.3	22.8	20.4	21.5	20.9	22.0	22.5
4H	21.9	22.9	22.4	23.4	24.0	21.6	22.6	22.1	23.1	23.7
6H	23.1	24.1	23.7	24.6	25.2	22.8	23.7	23.4	24.3	24.9
8H	23.8	24.7	24.4	25.2	25.9	23.5	24.4	24.1	24.9	25.5
12H	24.6	25.4	25.2	26.0	26.6	24.3	25.1	24.8	25.6	26.3
8H 4H	22.3	23.2	22.9	23.7	24.3	22.0	22.9	22.6	23.5	24.1
6H	23.8	24.5	24.4	25.1	25.8	23.5	24.3	24.1	24.9	25.5
8H	24.7	25.3	25.3	25.9	26.6	24.4	25.0	25.0	25.7	26.3
12H	25.7	26.3	26.3	26.9	27.6	25.4	26.0	26.0	26.6	27.3
12H 4H	22.4	23.2	23.0	23.7	24.4	22.1	22.9	22.7	23.5	24.1
6H	24.0	24.6	24.6	25.3	25.9	23.7	24.4	24.4	25.0	25.7
8H	25.0	25.5	25.6	26.2	26.9	24.7	25.3	25.3	25.9	26.6
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				

CIE Pub.117 Corrected 2080 lm Total Lamp Luminous Flux.(8log(F/F0) = 2.5)

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:0.2343A P:25.00W PF:0.8918 Lamp Flux:2080.4x1 lm		
NAME: 18寸超薄	TYPE:超薄	WEIGHT:
DIM.:	SPEC.:18寸	SERIAL No.:
MFR.: WORBEST	SUR.:	PROTECTION ANGLE:

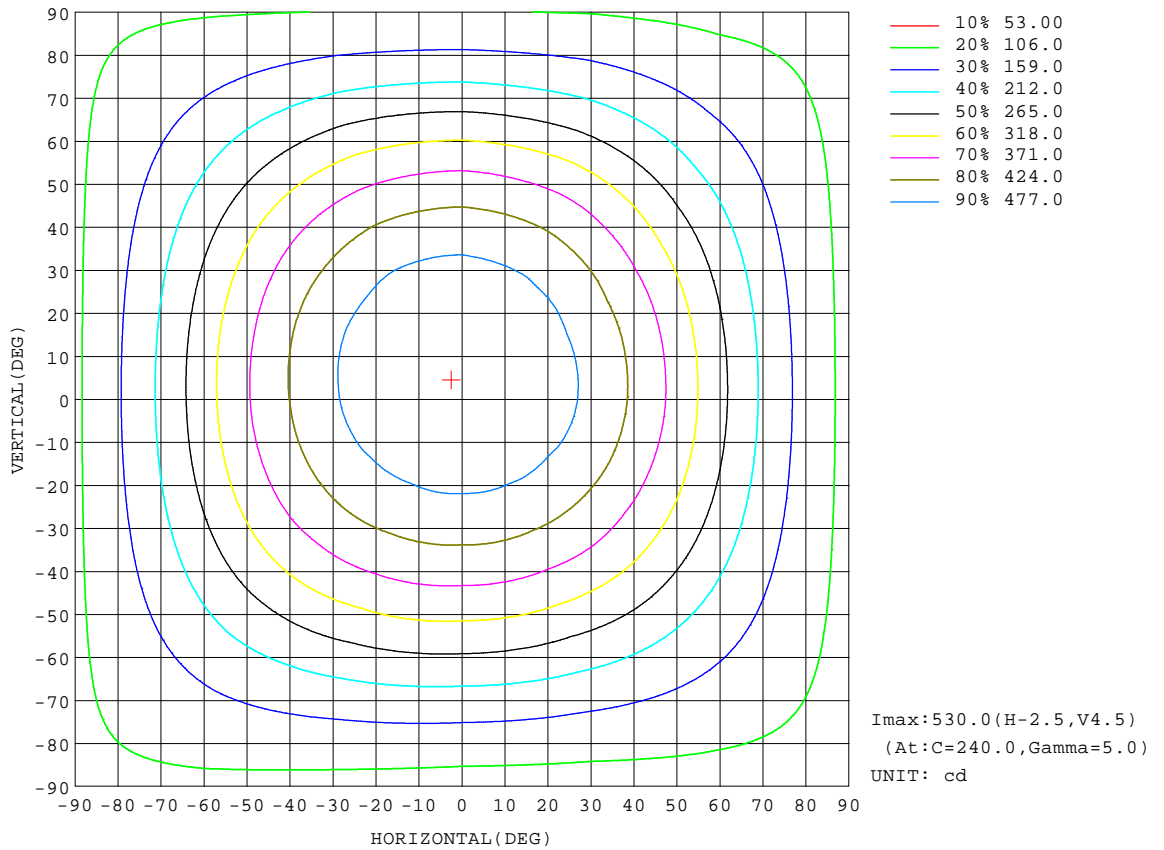
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	51	39	31	50	38	31	48	37	31	24
0.80	60	48	40	59	47	39	56	46	39	31
1.00	68	56	48	67	55	47	64	56	46	38
1.25	75	63	55	73	62	54	70	60	53	44
1.50	80	69	61	78	67	60	74	65	58	49
2.00	87	77	69	85	75	68	80	72	66	56
2.50	92	82	75	89	80	73	84	76	71	60
3.00	95	87	80	92	85	78	87	80	75	64
4.00	100	93	87	97	90	85	91	85	81	68
5.00	103	96	91	99	94	89	93	88	84	72
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:0.2343A P:25.00W PF:0.8918 Lamp Flux:2080.4x1 lm		
NAME: 18寸超薄	TYPE:超薄	WEIGHT:
DIM.:	SPEC.:18寸	SERIAL No.:
MFR.: WORBEST	SUR.:	PROTECTION ANGLE:

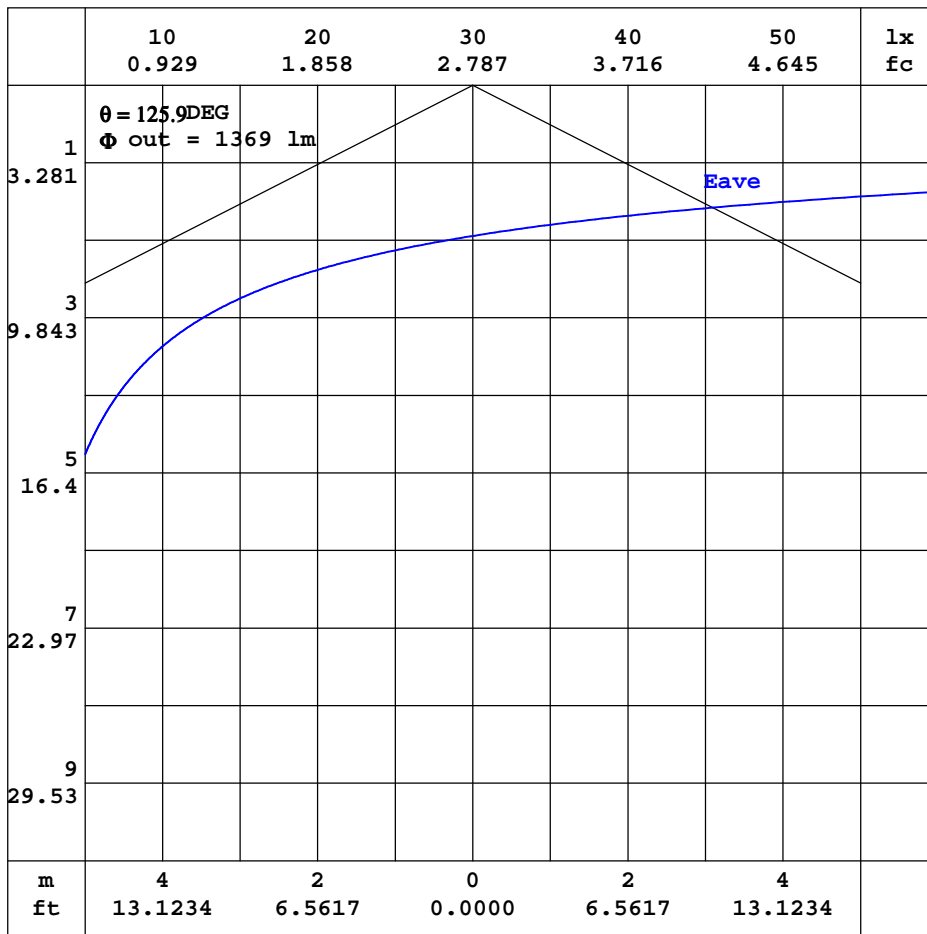


C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 曾本
Test Date: 2023-6-12

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:0.2343A P:25.00W PF:0.8918 Lamp Flux:2080.4x1 lm		
NAME: 18寸超薄	TYPE:超薄	WEIGHT:
DIM.:	SPEC.:18寸	SERIAL No.:
MFR.: WORBEST	SUR.:	PROTECTION ANGLE:



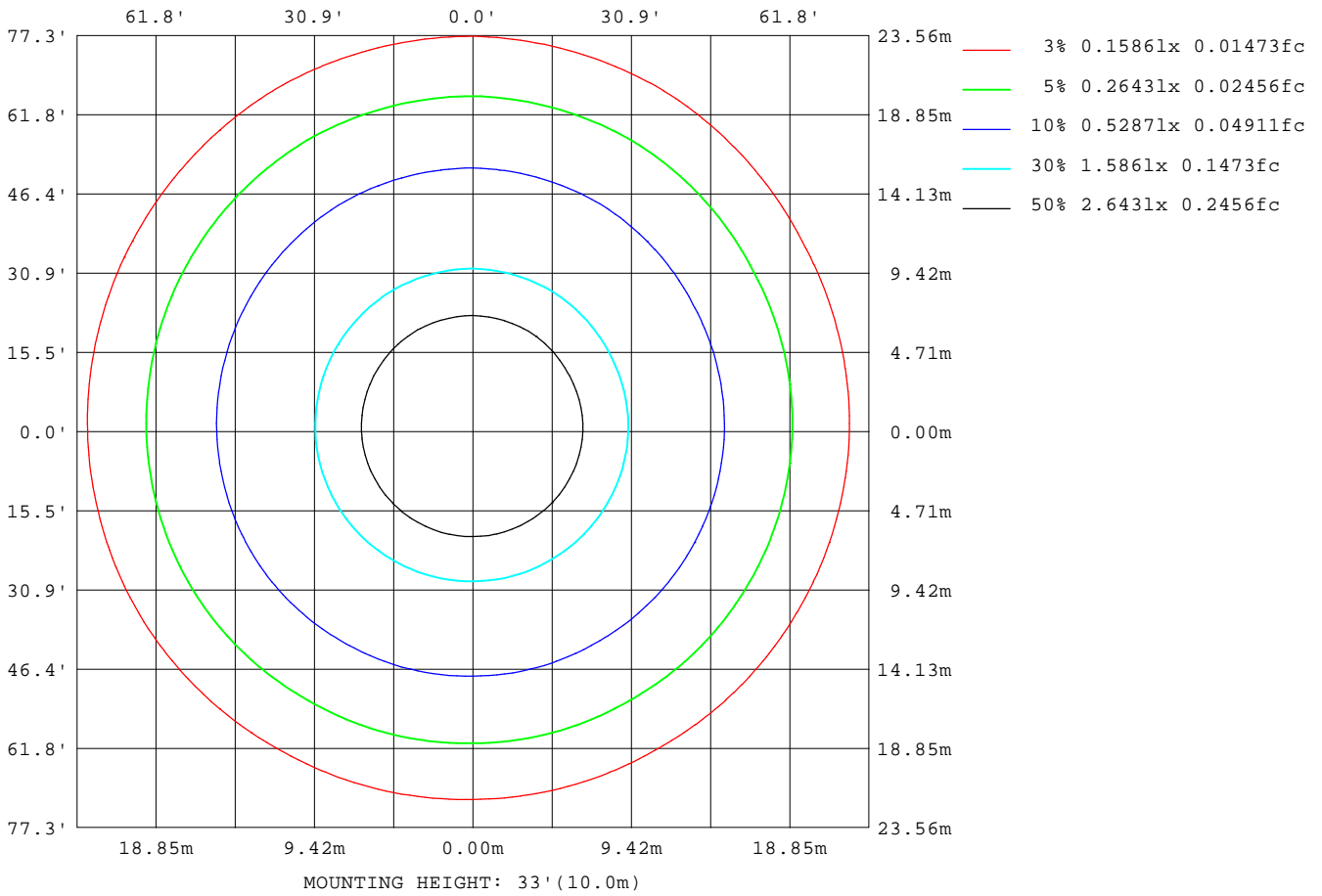
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

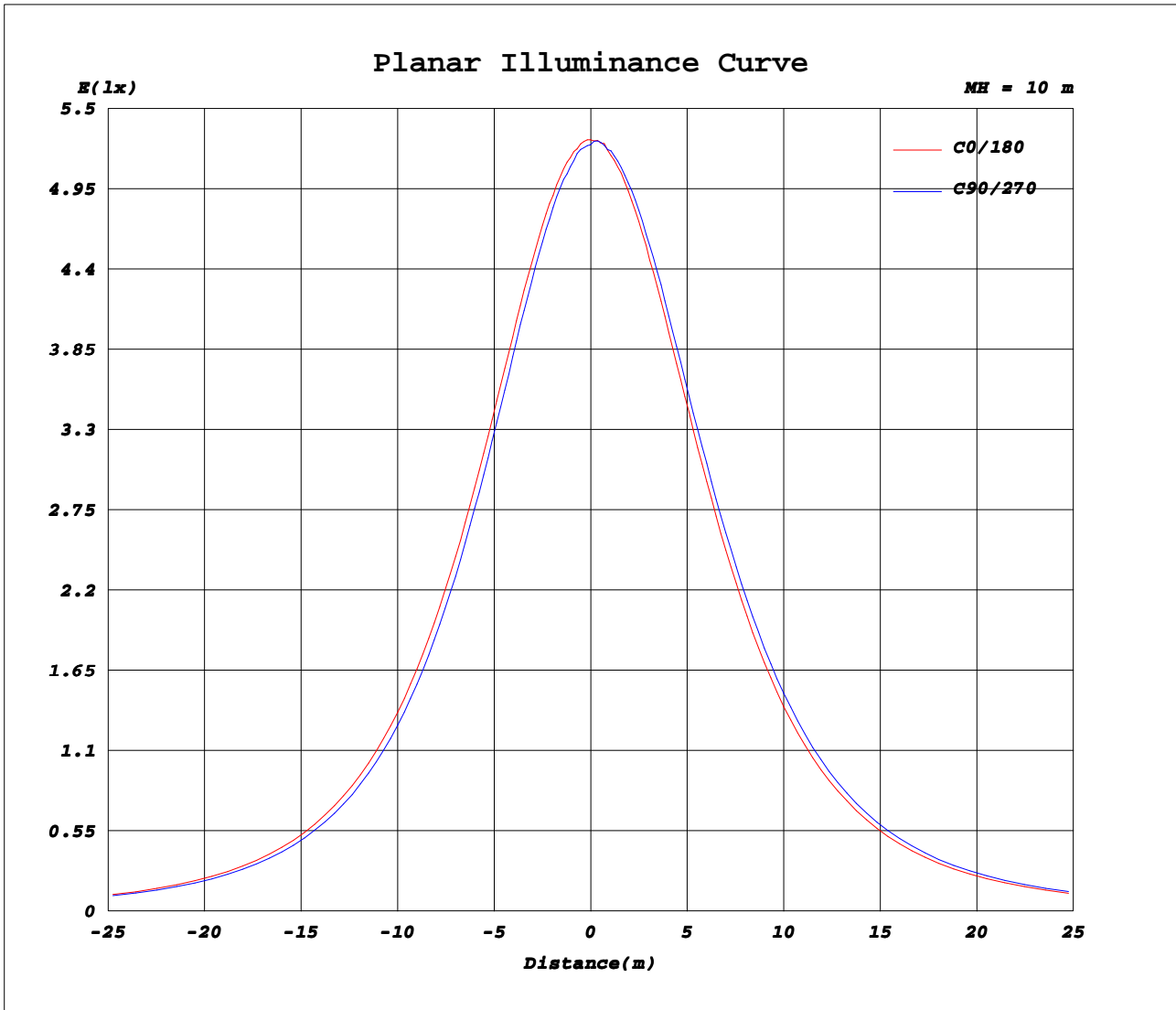
Test:U:119.7V I:0.2343A P:25.00W PF:0.8918 Lamp Flux:2080.4x1 lm		
NAME: 18寸超薄	TYPE:超薄	WEIGHT:
DIM.:	SPEC.:18寸	SERIAL No.:
MFR.: WORBEST	SUR.:	PROTECTION ANGLE:



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:0.2343A P:25.00W PF:0.8918 Lamp Flux:2080.4x1 lm		
NAME: 18寸超薄	TYPE:超薄	WEIGHT:
DIM.:	SPEC.:18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	529	528	528	525	525	525	529	528	528	525	525	525							
5	527	524	522	520	521	522	528	528	530	528	527	525							
10	521	517	513	512	514	516	523	525	529	528	525	520							
15	513	506	501	500	501	506	515	520	523	525	520	513							
20	500	492	485	484	486	494	504	511	514	517	512	504							
25	484	475	466	464	467	477	489	498	503	506	500	490							
30	465	454	444	442	447	458	472	481	489	490	485	472							
35	442	429	420	417	424	436	450	461	470	472	465	450							
40	416	401	393	390	398	411	425	438	448	449	441	424							
45	386	371	362	361	368	382	396	410	421	422	413	395							
50	352	339	329	329	336	352	366	379	390	391	382	362							
55	317	304	294	295	302	319	333	345	356	357	347	327							
60	279	267	258	259	267	284	296	308	319	320	309	288							
65	241	230	222	224	232	248	259	270	280	280	270	249							
70	204	195	189	190	199	213	222	231	240	240	230	211							
75	171	164	158	160	168	180	186	195	202	202	194	176							
80	141	135	131	132	139	149	154	161	167	167	161	145							
85	115	109	106	108	114	121	125	130	135	136	131	118							
90	91.5	82.1	78.0	85.9	90.3	95.6	96.9	102	107	108	104	93.4							
95	73.1	61.2	52.3	64.5	65.5	71.9	65.4	78.7	82.1	83.2	80.7	73.3							
100	59.3	51.9	39.6	43.5	46.2	49.7	39.8	60.1	62.7	60.5	60.6	57.6							
105	50.2	44.8	33.2	31.2	35.5	34.1	32.5	47.1	48.9	44.9	46.3	47.1							
110	45.6	41.5	31.0	25.6	28.9	25.5	29.3	39.9	40.7	37.3	40.4	41.8							
115	44.6	41.4	30.6	24.8	25.7	23.7	28.6	37.6	38.0	35.0	38.8	41.0							
120	42.9	40.4	29.0	23.5	23.5	23.3	28.1	36.6	37.5	34.9	37.8	39.7							
125	39.9	37.9	26.4	21.2	20.8	21.8	26.5	34.8	35.6	33.3	35.3	36.7							
130	36.6	34.9	24.0	18.3	18.4	20.1	24.8	32.1	33.0	30.7	32.1	33.5							
135	32.8	31.1	21.4	15.3	15.6	18.0	22.8	29.1	29.5	27.5	28.3	29.8							
140	28.2	26.6	18.7	12.1	12.5	15.7	20.0	25.5	25.9	24.0	24.3	25.9							
145	23.1	21.5	15.4	8.93	9.29	12.9	16.7	21.4	21.8	20.2	20.2	21.6							
150	17.6	15.9	11.7	6.19	6.37	10.3	13.4	16.9	17.4	15.8	15.5	16.5							
155	11.7	10.1	7.46	3.78	4.07	7.85	9.55	12.2	12.6	11.4	10.6	11.0							
160	6.91	5.60	4.26	2.59	2.94	5.30	5.48	7.75	7.77	6.91	6.33	6.64							
165	4.31	3.37	2.96	2.15	2.38	3.65	3.24	5.05	4.81	4.28	4.18	4.60							
170	3.18	2.23	2.27	2.04	2.66	3.04	2.10	3.63	3.41	2.98	3.09	3.52							
175	2.56	1.57	2.16	2.23	2.60	2.79	1.96	2.86	2.82	2.38	2.44	2.58							
180	2.37	1.31	1.80	2.07	2.34	2.58	2.37	1.40	1.90	1.95	2.31	2.63							

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