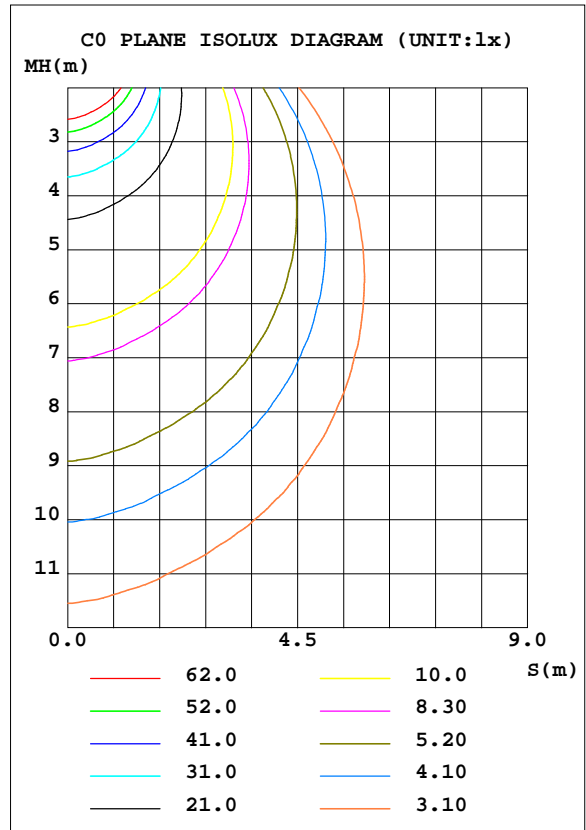
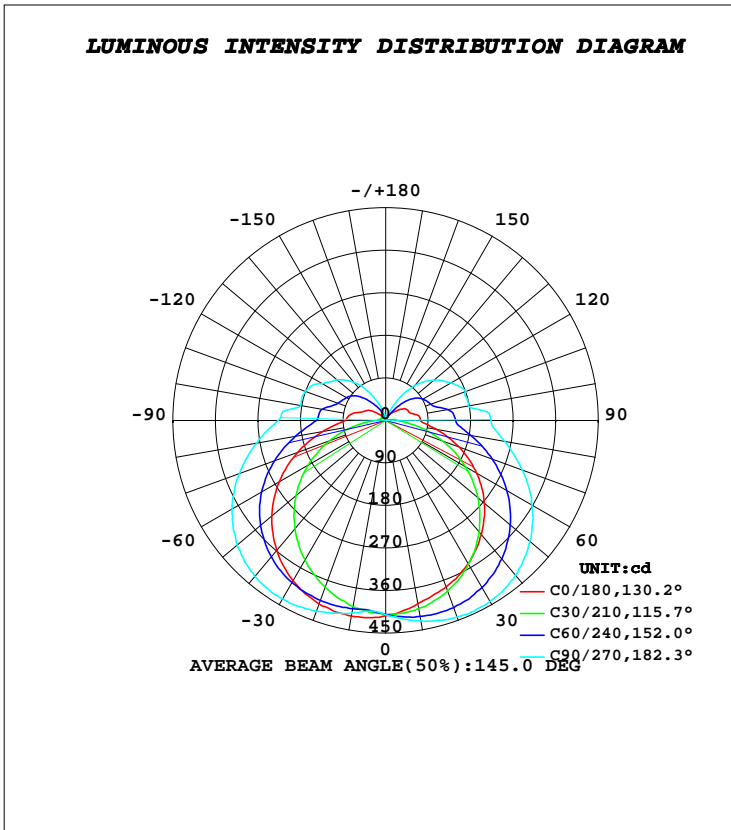


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.6V I:0.2346A P:24.91W PF:0.8878 Lamp Flux:2536.98x1 lm		
NAME: Vanity 24inch	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: ASL Global.	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 101.84 lm/W			
MODEL	VBDE24	I _{max} (cd)	468.3	S/MH(C0/180)	1.27
NOMINAL POWER(W)	25	LOR(%)	100.0	S/MH(C90/270)	1.60
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	2537.0	η UP, DN(C0-180)	11.6, 37.1
NOMINAL FLUX(lm)	2536.98	CIE CLASS	SEMI-D.	η UP, DN(C180-360)	12.7, 38.5
LAMPS INSIDE	1	η up(%)	24.4	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	119.6	η down(%)	75.6	CIBSE SHR MAX	1.55



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:曾本
Test Date:2023.6.7

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	393.5	412.3	430.5	430.5	420.3	402.0	414.3	419.1	0- 10	39.42	39.42	1.55,1.55
20	374.4	402.6	442.7	448.2	413.2	390.4	429.3	439.9	10- 20	118.4	157.9	6.22,6.22
30	349.7	379.3	442.1	452.7	392.2	368.8	435.9	450.6	20- 30	192.1	350.0	13.8,13.8
40	315.7	345.2	427.2	442.1	358.1	337.5	430.9	447.2	30- 40	251.7	601.7	23.7,23.7
50	272.6	299.4	397.6	417.7	314.6	296.7	410.0	429.9	40- 50	289.5	891.2	35.1,35.1
60	222.2	245.0	357.7	380.9	260.4	246.3	375.4	398.2	50- 60	301.0	1192	47,47
70	165.7	184.8	308.1	333.7	198.6	188.8	329.7	354.4	60- 70	284.9	1477	58.2,58.2
80	108.6	124.1	256.2	282.0	134.9	129.7	277.4	303.0	70- 80	245.4	1722	67.9,67.9
90	73.64	86.70	223.3	245.2	86.14	82.83	227.6	254.0	80- 90	196.8	1919	75.6,75.6
100	67.95	73.83	178.2	215.0	75.54	75.71	183.1	221.2	90-100	168.0	2087	82.3,82.3
110	53.14	51.44	180.9	194.2	53.99	59.44	180.9	204.4	100-110	137.8	2225	87.7,87.7
120	49.11	46.07	159.6	173.0	43.34	54.04	156.7	184.8	110-120	117.0	2342	92.3,92.3
130	34.25	36.15	132.9	139.7	25.31	44.94	133.9	156.4	120-130	90.56	2433	95.9,95.9
140	21.76	18.35	96.37	87.83	10.64	29.71	105.9	121.1	130-140	59.88	2492	98.2,98.2
150	14.95	3.025	47.35	31.68	2.072	17.06	67.42	79.47	140-150	30.03	2522	99.4,99.4
160	9.760	1.312	4.600	11.64	1.216	9.634	31.78	48.19	150-160	10.91	2533	99.9,99.9
170	7.123	1.389	1.051	3.501	1.334	5.054	11.19	18.33	160-170	3.197	2537	100,100
180	2.372	1.330	1.274	1.893	2.413	1.375	1.664	1.627	170-180	0.4401	2537	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

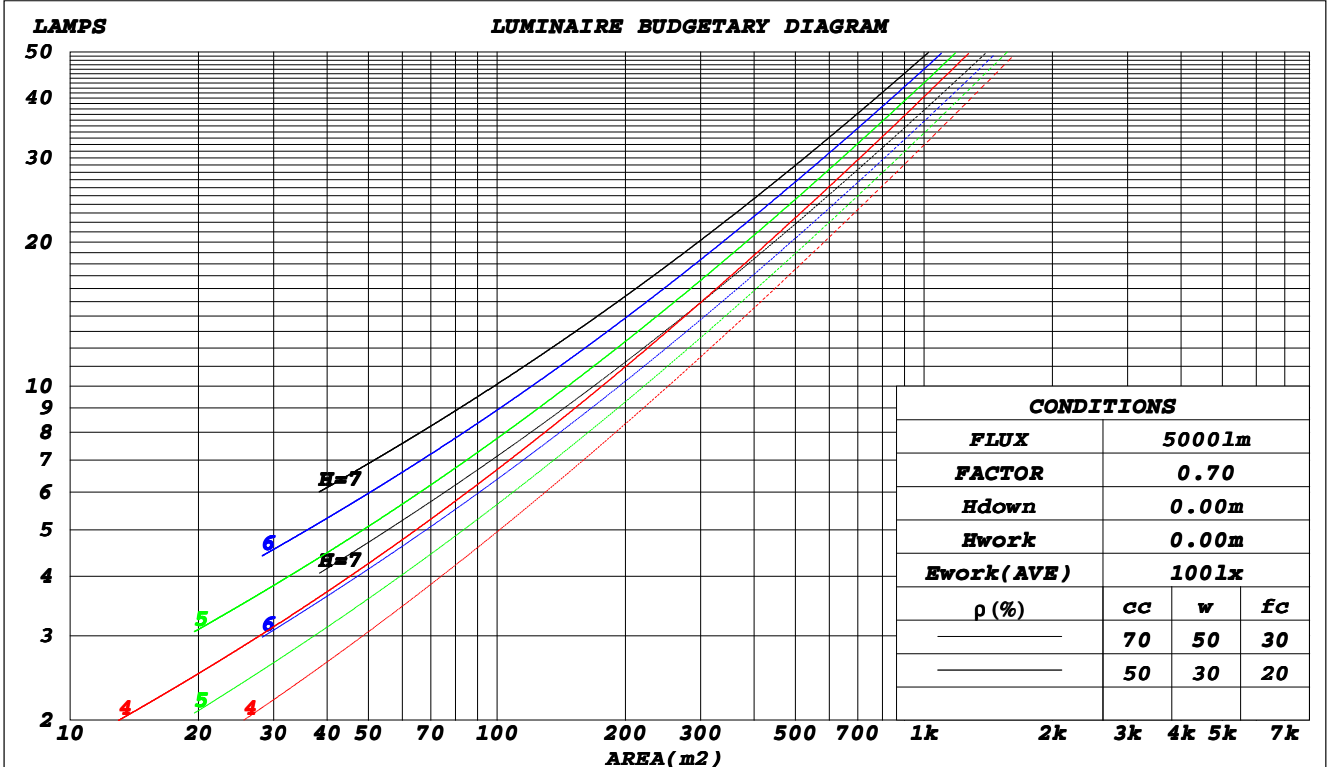
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:曾本
Test Date:2023.6.7

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:119.6V I:0.2346A P:24.91W PF:0.8878 Lamp Flux:2536.98x1 lm		
NAME: Vanity 24inch	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: WORBEST	SUR.:	PROTECTION ANGLE:

ρcc	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρw																
ρfc																
RCR	RCR:Room Cavity Ratio			Coefficients of Utilization(CU)												
0.0	1.13	1.13	1.13	1.08	1.08	1.08	.98	.98	.98	.88	.88	.88	.80	.80	.80	.76
1.0	.94	.88	.83	.89	.84	.80	.80	.76	.73	.72	.69	.66	.65	.62	.60	.56
2.0	.80	.72	.65	.76	.69	.62	.68	.62	.57	.61	.56	.52	.55	.51	.48	.44
3.0	.69	.60	.53	.65	.57	.50	.59	.52	.46	.53	.47	.43	.47	.43	.39	.35
4.0	.60	.51	.43	.57	.49	.42	.52	.44	.39	.46	.40	.35	.41	.37	.32	.29
5.0	.53	.44	.37	.51	.42	.35	.46	.38	.33	.41	.35	.30	.37	.32	.28	.25
6.0	.48	.38	.31	.45	.37	.30	.41	.34	.28	.37	.31	.26	.33	.28	.24	.21
7.0	.43	.34	.27	.41	.32	.26	.37	.30	.24	.33	.27	.23	.30	.25	.21	.18
8.0	.39	.30	.24	.37	.29	.23	.34	.27	.22	.30	.24	.20	.28	.22	.18	.16
9.0	.35	.27	.21	.34	.26	.21	.31	.24	.19	.28	.22	.18	.25	.20	.16	.14
10.0	.32	.24	.19	.31	.23	.18	.28	.22	.17	.26	.20	.16	.23	.18	.15	.13



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: 曾本
 Test Date: 2023.6.7

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:119.6V I:0.2346A P:24.91W PF:0.8878 Lamp Flux:2536.98x1 lm		
NAME: Vanity 24inch	TYPE:	WEIGHT:
DIM.:	SPEC.:	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	.392	.223	.071	.378	.215	.068	.350	.201	.064	.325	.187	.060	.302	.175	.056	
2.0	.338	.185	.057	.325	.179	.055	.300	.167	.052	.277	.155	.049	.255	.144	.046	
3.0	.299	.159	.048	.287	.154	.046	.265	.143	.044	.244	.133	.041	.224	.124	.038	
4.0	.269	.140	.041	.258	.135	.040	.237	.126	.038	.218	.117	.035	.200	.109	.033	
5.0	.244	.124	.036	.234	.120	.035	.215	.112	.033	.198	.104	.031	.181	.097	.029	
6.0	.223	.112	.032	.214	.108	.031	.197	.101	.029	.181	.094	.028	.166	.087	.026	
7.0	.206	.102	.029	.197	.098	.028	.181	.092	.026	.167	.085	.025	.153	.079	.023	
8.0	.190	.093	.026	.183	.090	.025	.168	.084	.024	.155	.078	.023	.142	.073	.021	
9.0	.177	.086	.024	.170	.083	.023	.157	.078	.022	.144	.072	.021	.132	.067	.019	
10.0	.166	.079	.022	.159	.077	.021	.147	.072	.020	.135	.067	.019	.124	.062	.018	

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	.376	.376	.376	.321	.321	.321	.219	.219	.219	.126	.126	.126	.040	.040	.040	
1.0	.373	.342	.315	.319	.294	.271	.218	.202	.187	.126	.117	.109	.040	.038	.035	
2.0	.367	.320	.281	.314	.275	.243	.215	.191	.169	.124	.111	.099	.040	.036	.032	
3.0	.359	.304	.259	.308	.262	.225	.212	.182	.158	.122	.106	.093	.039	.035	.030	
4.0	.352	.292	.246	.302	.252	.213	.208	.176	.150	.120	.103	.089	.039	.033	.029	
5.0	.344	.282	.236	.296	.244	.205	.204	.170	.145	.118	.100	.086	.038	.033	.028	
6.0	.337	.274	.229	.290	.237	.200	.200	.166	.141	.116	.098	.084	.037	.032	.028	
7.0	.330	.268	.224	.284	.232	.195	.196	.163	.138	.114	.096	.082	.037	.031	.027	
8.0	.323	.262	.220	.278	.227	.192	.192	.160	.136	.112	.094	.081	.036	.031	.027	
9.0	.317	.257	.217	.273	.223	.190	.189	.157	.135	.110	.093	.080	.036	.030	.027	
10.0	.311	.253	.215	.268	.220	.188	.186	.155	.133	.108	.092	.080	.035	.030	.026	

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: 曾本
 Test Date: 2023.6.7

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:119.6V I:0.2346A P:24.91W PF:0.8878 Lamp Flux:2536.98x1 lm										
NAME: Vanity 24inch					TYPE:			WEIGHT:		
DIM.:					SPEC.:			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	15.2	16.5	15.7	17.1	17.8	17.8	19.1	18.4	19.7	20.4
3H	17.1	18.3	17.7	18.9	19.6	20.5	21.7	21.1	22.3	23.0
4H	18.0	19.2	18.6	19.8	20.5	21.9	23.1	22.5	23.7	24.5
6H	19.0	20.0	19.6	20.7	21.5	23.5	24.6	24.2	25.2	26.0
8H	19.5	20.5	20.1	21.2	22.0	24.4	25.4	25.1	26.1	26.9
12H	20.0	21.0	20.7	21.7	22.5	25.4	26.4	26.1	27.1	27.9
4H 2H	16.1	17.3	16.7	17.9	18.6	18.2	19.3	18.8	19.9	20.7
3H	17.9	18.9	18.6	19.6	20.4	21.0	22.0	21.7	22.7	23.5
4H	18.9	19.8	19.6	20.5	21.3	22.7	23.6	23.4	24.3	25.1
6H	19.9	20.7	20.6	21.5	22.3	24.5	25.3	25.2	26.0	26.9
8H	20.5	21.3	21.2	22.0	22.9	25.5	26.3	26.2	27.0	27.9
12H	21.1	21.9	21.9	22.6	23.5	26.7	27.4	27.4	28.2	29.1
8H 4H	19.6	20.4	20.3	21.1	22.0	22.8	23.6	23.5	24.3	25.2
6H	20.6	21.3	21.4	22.0	23.0	24.9	25.5	25.7	26.3	27.2
8H	21.2	21.8	22.0	22.6	23.5	26.1	26.7	26.9	27.5	28.4
12H	22.0	22.5	22.8	23.3	24.2	27.6	28.1	28.4	28.9	29.8
12H 4H	19.9	20.6	20.6	21.3	22.2	22.8	23.5	23.5	24.2	25.1
6H	21.0	21.6	21.8	22.4	23.3	24.9	25.5	25.7	26.3	27.2
8H	21.6	22.1	22.4	22.9	23.9	26.2	26.7	27.0	27.5	28.5
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1				
1.5H	+ 0.1 / - 0.2					+ 0.2 / - 0.2				
2.0H	+ 0.2 / - 0.2					+ 0.2 / - 0.3				

CIE Pub.117 Corrected 2537 lm Total Lamp Luminous Flux.(8log(F/F0) = 3.2)

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:曾本
 Test Date:2023.6.7

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:119.6V I:0.2346A P:24.91W PF:0.8878 Lamp Flux:2536.98x1 lm		
NAME: Vanity 24inch	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: WORBEST	SUR.:	PROTECTION ANGLE:

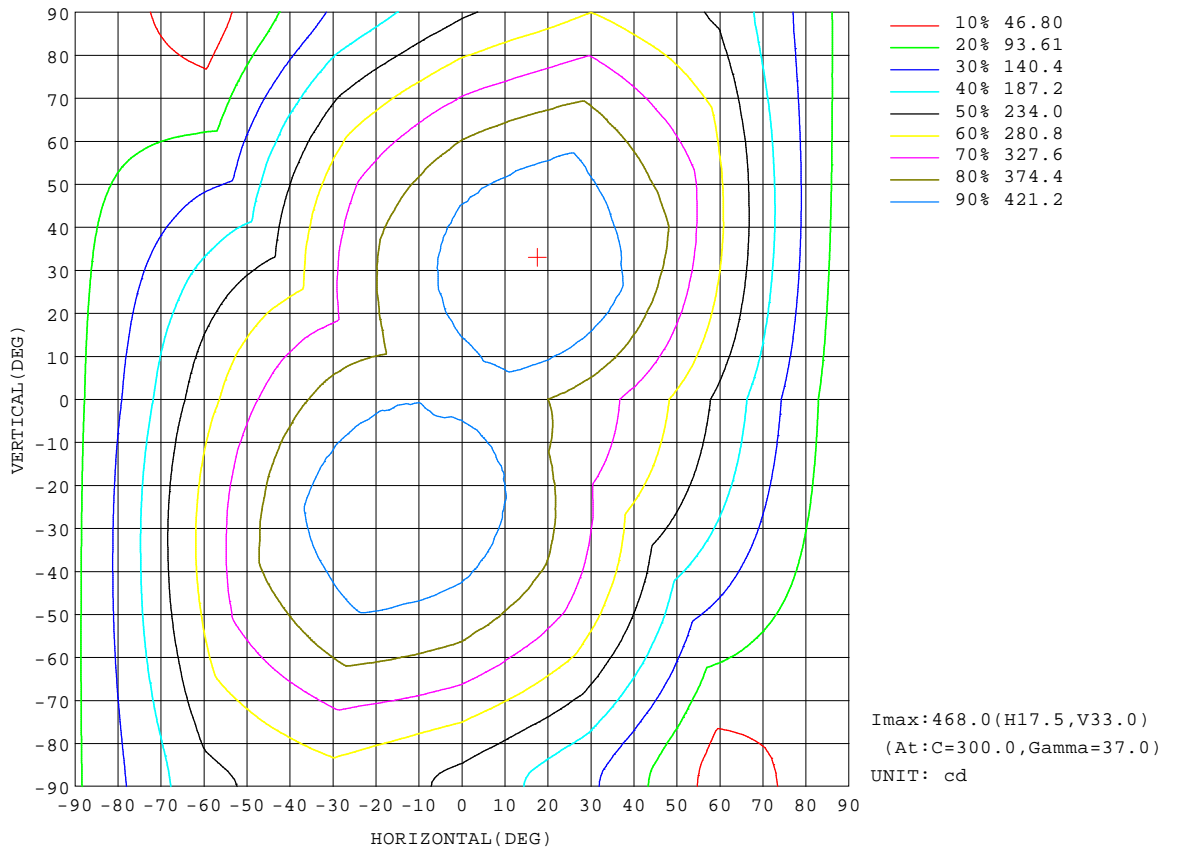
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	45	32	25	43	31	24	41	30	24	17
0.80	54	40	32	52	39	32	49	38	31	22
1.00	61	48	39	59	47	39	55	47	37	28
1.25	68	55	46	66	54	45	61	51	43	33
1.50	74	61	52	71	59	51	65	55	48	37
2.00	81	70	61	78	67	59	71	62	56	43
2.50	86	75	67	82	72	65	75	67	61	46
3.00	90	80	72	86	77	70	78	71	65	50
4.00	95	86	79	90	83	76	82	76	71	55
5.00	98	90	84	93	87	81	84	79	75	58
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: 2023.6.7

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:119.6V I:0.2346A P:24.91W PF:0.8878 Lamp Flux:2536.98x1 lm		
NAME: Vanity 24inch	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: WORBEST	SUR.:	PROTECTION ANGLE:

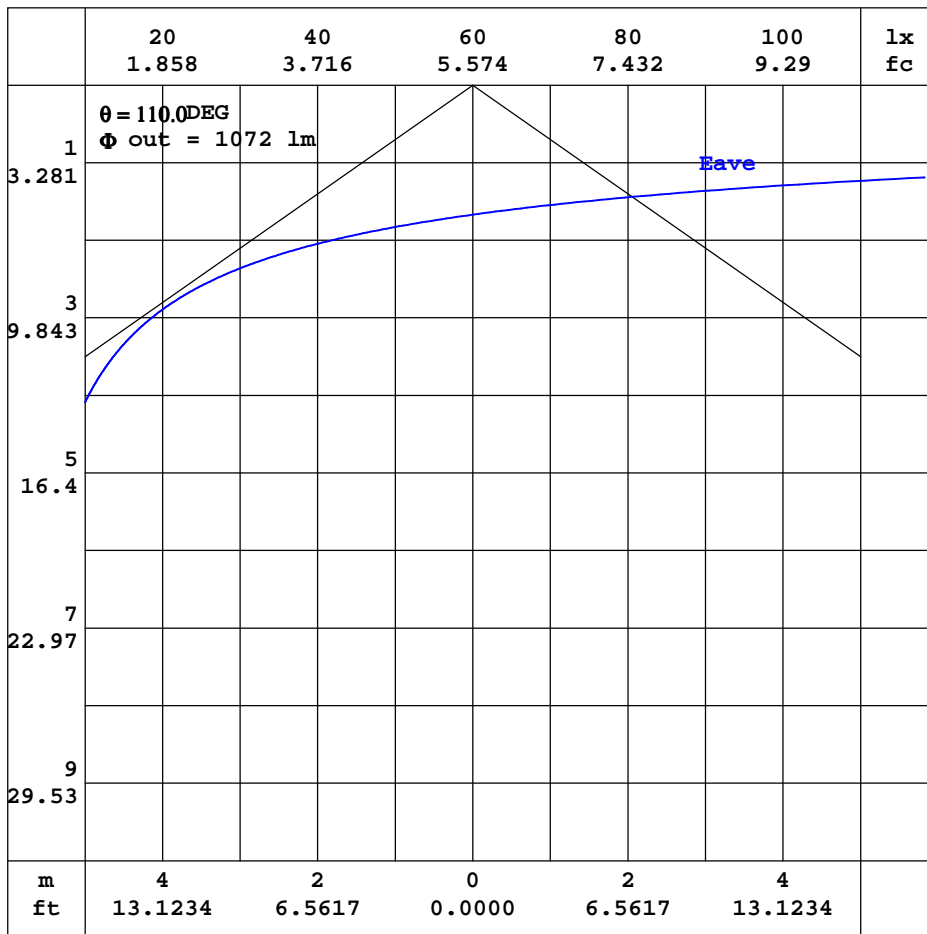


C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 曾本
Test Date: 2023.6.7

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:119.6V I:0.2346A P:24.91W PF:0.8878 Lamp Flux:2536.98x1 lm		
NAME: Vanity 24inch	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: WORBEST	SUR.:	PROTECTION ANGLE:



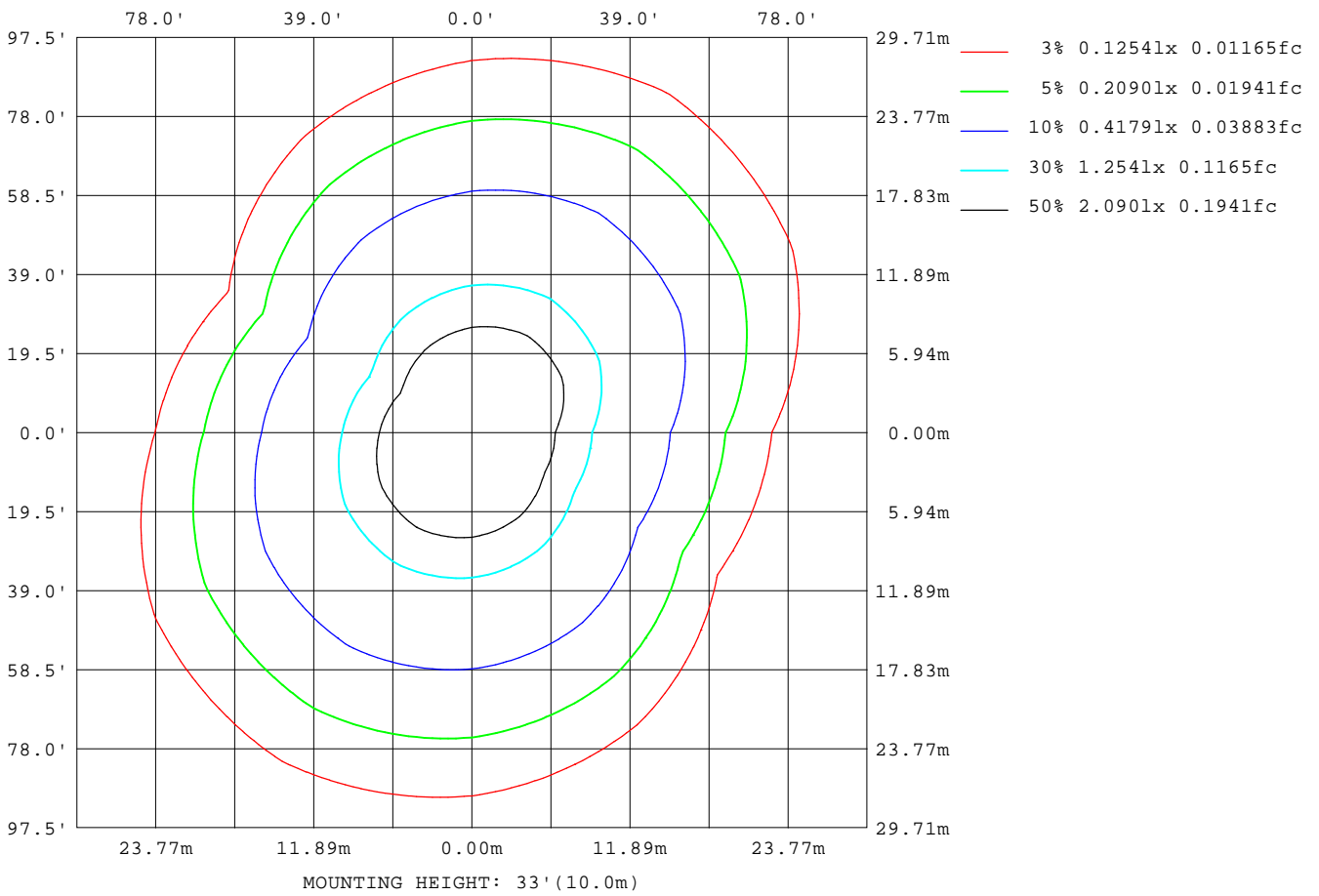
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 曾本
Test Date: 2023.6.7

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

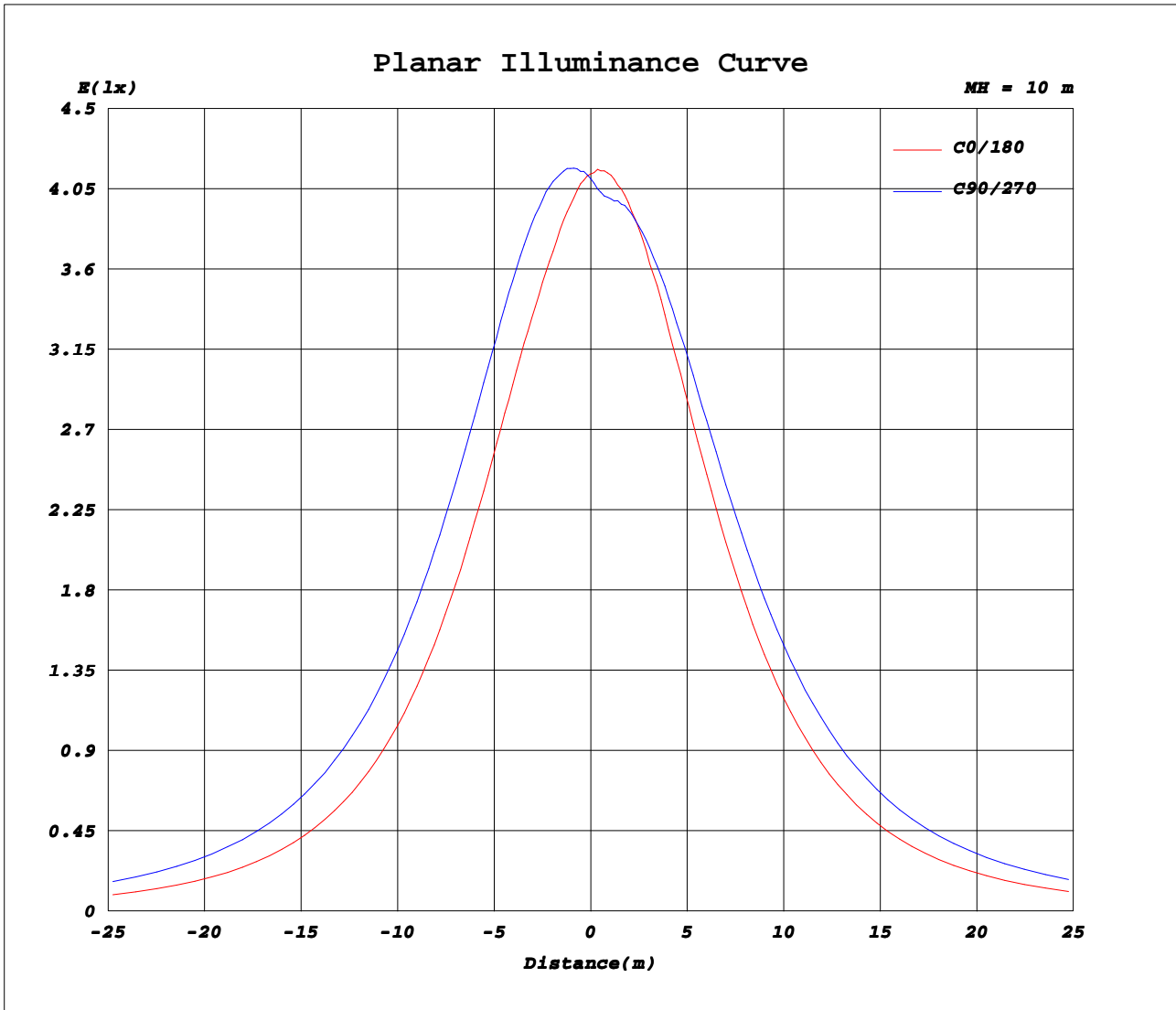
Test:U:119.6V I:0.2346A P:24.91W PF:0.8878 Lamp Flux:2536.98x1 lm		
NAME: Vanity 24inch	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: WORBEST	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 曾本
Test Date: 2023.6.7

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: 2023.6.7

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:119.6V I:0.2346A P:24.91W PF:0.8878 Lamp Flux:2536.98x1 lm		
NAME: Vanity 24inch	TYPE:	WEIGHT:
DIM.:	SPEC.:	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	413	411	410	411	409	405	413	411	410	411	409	405							
5	405	409	416	421	422	415	419	407	403	405	407	407							
10	394	404	421	431	435	426	420	400	404	414	421	417							
15	384	395	423	438	447	434	418	389	406	422	435	426							
20	374	384	421	443	456	440	413	375	405	429	447	433							
25	363	369	417	444	462	443	405	359	402	434	458	437							
30	350	351	408	442	463	442	392	341	396	436	464	438							
35	333	331	397	437	461	437	377	321	388	435	466	435							
40	316	308	382	427	455	429	358	299	376	431	465	429							
45	295	282	364	414	445	418	338	274	362	422	460	420							
50	273	254	344	398	433	403	315	248	346	410	452	408							
55	248	225	321	379	417	385	289	220	326	394	440	391							
60	222	194	296	358	398	364	260	189	303	375	425	372							
65	195	163	269	334	376	342	230	158	278	354	406	349							
70	166	129	240	308	351	316	199	127	251	330	384	324							
75	136	95.8	212	281	325	289	166	95.6	222	304	360	298							
80	109	64.8	183	256	301	263	135	65.1	194	277	334	272							
85	84.5	37.8	159	233	278	238	106	37.4	168	252	306	247							
90	73.6	25.1	148	223	268	222	86.1	18.8	147	228	280	228							
95	72.9	22.0	144	215	258	218	81.4	16.8	142	218	270	224							
100	68.0	13.7	134	178	234	196	75.5	14.5	137	183	245	197							
105	57.6	4.58	112	178	229	172	64.9	12.3	119	184	241	178							
110	53.1	1.23	102	181	220	168	54.0	11.2	108	181	233	176							
115	51.7	1.05	96.9	172	208	162	48.1	11.1	102	173	221	170							
120	49.1	1.06	91.1	160	194	152	43.3	11.0	97.1	157	208	162							
125	43.1	1.09	83.2	148	176	140	35.6	10.2	90.5	143	192	150							
130	34.2	1.12	71.2	133	154	125	25.3	8.56	81.3	134	175	137							
135	27.1	1.14	55.0	116	128	107	17.7	7.11	67.9	121	157	123							
140	21.8	1.18	35.5	96.4	97.7	77.9	10.6	5.99	53.4	106	135	107							
145	17.8	1.20	18.3	71.9	68.0	47.1	5.08	5.09	40.4	88.4	111	90.0							
150	14.9	1.23	4.82	47.3	43.6	19.8	2.07	4.24	29.9	67.4	86.0	73.0							
155	12.3	1.30	1.26	24.1	27.4	5.45	1.23	3.38	21.9	46.5	67.6	56.0							
160	9.76	1.33	1.29	4.60	22.0	1.26	1.22	2.81	16.5	31.8	53.5	42.9							
165	8.60	1.40	1.31	1.06	11.0	0.97	1.24	2.45	11.5	20.1	39.4	27.3							
170	7.12	1.44	1.33	1.05	5.94	1.06	1.33	2.01	8.10	11.2	24.3	12.4							
175	4.83	1.45	1.35	1.06	2.17	1.75	1.36	1.57	4.36	5.26	11.0	7.95							
180	2.37	1.39	1.27	1.27	2.19	1.60	2.41	1.34	1.41	1.66	1.70	1.56							

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 曾本
Test Date: 2023.6.7

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