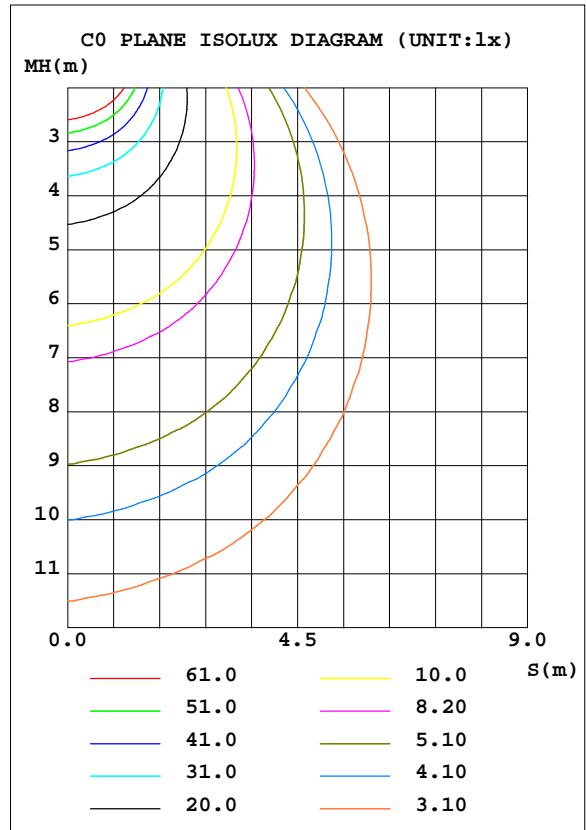
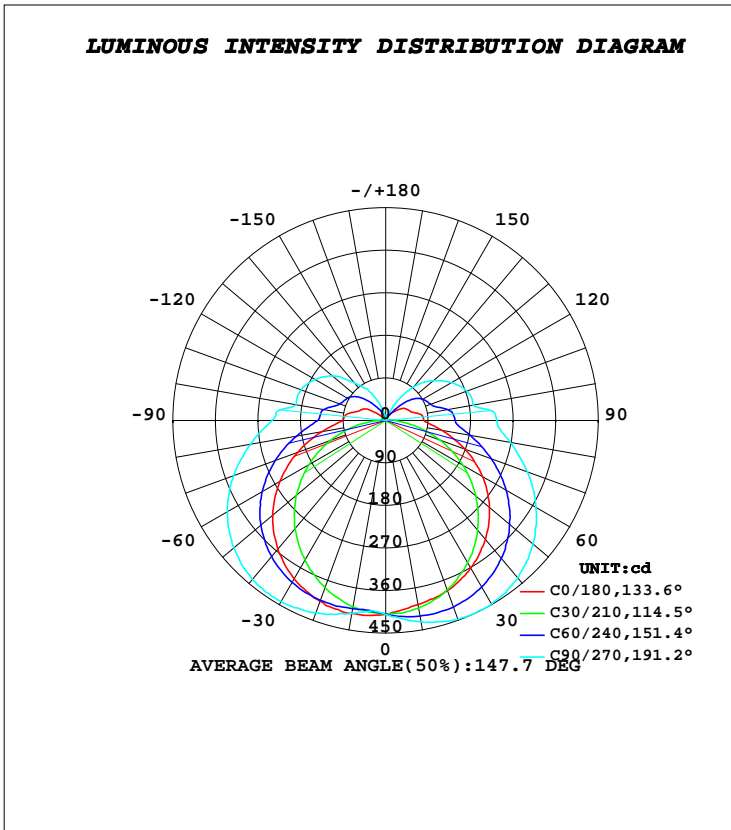


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.6V I:0.2346A P:24.92W PF:0.8878 Lamp Flux:2539.77x1 lm		
NAME: Vanity 24inch	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: ASL Global.	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 101.91 lm/W			
MODEL	VBDB24	I _{max} (cd)	467.3	S/MH(C0/180)	1.32
NOMINAL POWER(W)	25	LOR(%)	100.0	S/MH(C90/270)	1.62
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	2539.8	η UP, DN(C0-180)	11.6, 37.2
NOMINAL FLUX(lm)	2539.77	CIE CLASS	SEMI-D.	η UP, DN(C180-360)	12.8, 38.4
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	395.6	411.6	432.0	430.2	414.9	402.2	415.0	418.1	0- 10	39.36	39.36	1.55,1.55
20	382.7	400.2	447.5	447.0	407.0	390.7	433.1	437.9	10- 20	118.4	157.8	6.21,6.21
30	359.6	376.8	448.8	450.1	387.5	368.4	442.1	448.0	20- 30	192.2	350.0	13.8,13.8
40	328.5	342.0	435.0	438.0	354.9	337.2	439.2	443.8	30- 40	251.7	601.7	23.7,23.7
50	287.0	295.9	406.7	412.7	312.7	295.7	419.6	426.5	40- 50	289.6	891.3	35.1,35.1
60	236.4	241.0	366.8	375.5	258.8	245.1	386.6	394.0	50- 60	301.2	1193	47,47
70	178.7	180.4	319.3	327.1	197.8	186.6	342.4	350.1	60- 70	285.1	1478	58.2,58.2
80	120.6	120.0	267.9	275.2	137.1	126.8	290.6	299.3	70- 80	245.7	1723	67.9,67.9
90	81.30	83.75	235.7	239.5	91.95	79.55	240.4	249.9	80- 90	197.2	1921	75.6,75.6
100	75.65	72.13	188.2	209.5	82.20	72.17	192.9	217.8	90-100	168.4	2089	82.3,82.3
110	56.29	51.21	182.4	190.7	60.35	56.14	190.8	201.2	100-110	138.5	2228	87.7,87.7
120	49.75	45.82	160.8	168.1	49.74	51.59	173.2	182.1	110-120	117.1	2345	92.3,92.3
130	36.19	34.61	131.4	136.9	20.14	42.31	147.2	154.3	120-130	90.47	2435	95.9,95.9
140	22.56	14.75	93.41	93.32	1.857	27.37	104.3	120.3	130-140	58.85	2494	98.2,98.2
150	14.31	1.682	43.37	44.40	1.185	15.38	74.17	83.18	140-150	30.30	2524	99.4,99.4
160	8.703	1.256	9.504	13.92	1.154	8.937	36.08	48.67	150-160	11.90	2536	99.9,99.9
170	5.165	1.390	1.132	1.436	1.223	4.845	12.48	21.33	160-170	3.169	2539	100,100
180	1.428	1.414	1.488	1.922	1.428	1.412	1.518	1.874	170-180	0.4360	2540	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

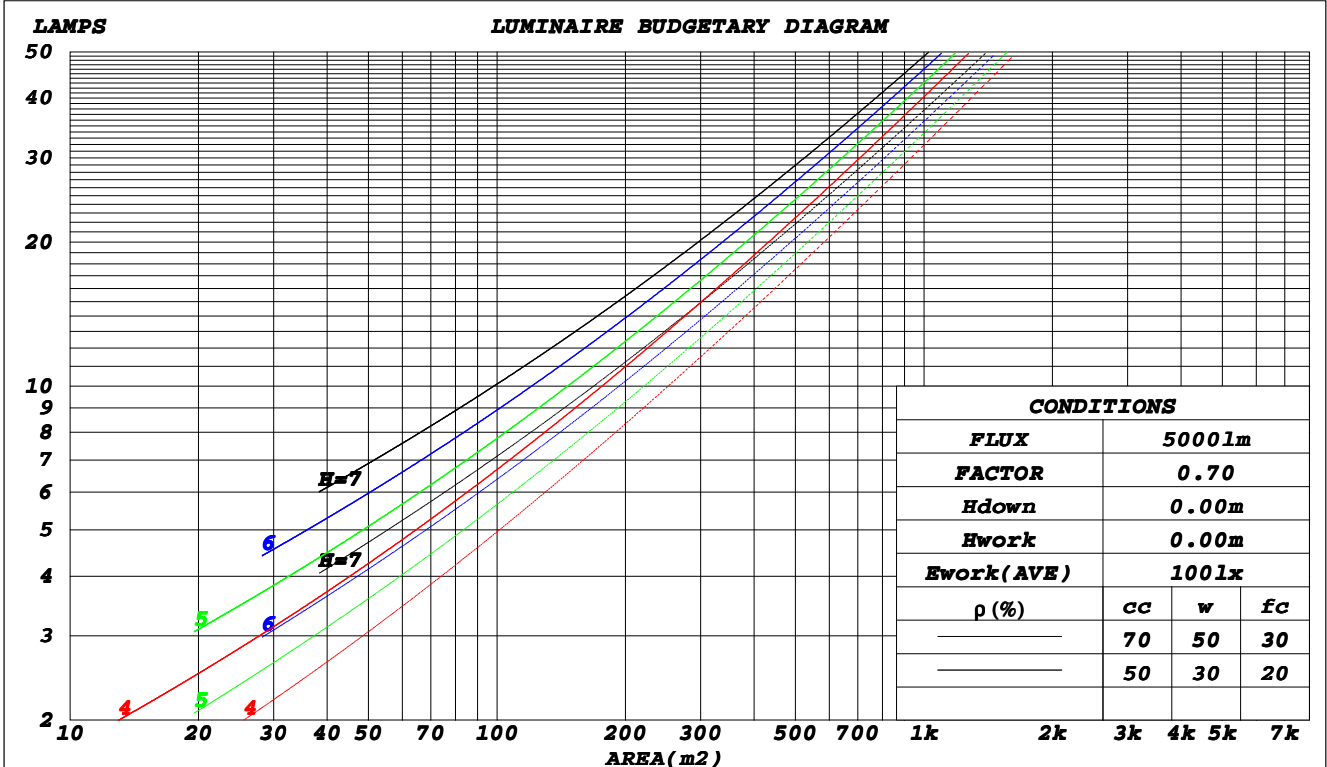
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:曾本
Test Date:2023.6.7

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:24.92W PF:0.8878 Lamp Flux:2539.77x1 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	0															
ρfc	0															
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	.52	.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:24.92W PF:0.8878 Lamp Flux:2539.77x1 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	.134	.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	.322	.322	.322	.219	.219	.219	.126	.126	.126	.040	.040	.040	
1.0	.373	.343	.315	.319	.294	.271	.218	.202	.188	.126	.117	.109	.040	.038	.035	
2.0	.367	.320	.281	.314	.276	.243	.215	.191	.169	.124	.111	.099	.040	.036	.032	
3.0	.360	.304	.260	.308	.262	.225	.212	.182	.158	.122	.106	.093	.039	.035	.030	
4.0	.352	.292	.246	.302	.252	.214	.208	.176	.150	.120	.103	.089	.039	.034	.029	
5.0	.344	.282	.236	.296	.244	.205	.204	.171	.145	.118	.100	.086	.038	.033	.028	
6.0	.337	.274	.229	.290	.238	.200	.200	.166	.141	.116	.098	.084	.037	.032	.028	
7.0	.330	.268	.224	.284	.232	.196	.196	.163	.139	.114	.096	.082	.037	.031	.027	
8.0	.323	.262	.221	.278	.228	.192	.193	.160	.136	.112	.094	.081	.036	.031	.027	
9.0	.317	.258	.218	.273	.224	.190	.189	.157	.135	.110	.093	.080	.036	.030	.027	
10.0	.311	.254	.215	.268	.220	.188	.186	.155	.133	.109	.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:24.92W PF:0.8878 Lamp Flux:2539.77x1 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	16.6	15.8	17.1	17.8	17.9	19.2	18.5	19.8	20.5
3H	17.2	18.4	17.8	19.1	19.8	20.6	21.8	21.2	22.4	23.1
4H	18.2	19.4	18.9	20.0	20.8	22.1	23.2	22.7	23.8	24.6
6H	19.3	20.4	19.9	21.0	21.8	23.7	24.8	24.3	25.4	26.2
8H	19.8	20.9	20.5	21.5	22.3	24.6	25.6	25.3	26.3	27.1
12H	20.5	21.5	21.1	22.2	23.0	25.7	26.7	26.3	27.3	28.1
4H 2H	16.1	17.3	16.7	17.9	18.7	18.2	19.3	18.8	20.0	20.7
3H	18.0	19.0	18.7	19.7	20.5	21.1	22.1	21.8	22.8	23.6
4H	19.0	19.9	19.7	20.6	21.5	22.8	23.7	23.5	24.4	25.2
6H	20.1	20.9	20.8	21.7	22.5	24.6	25.4	25.3	26.2	27.0
8H	20.7	21.5	21.5	22.2	23.1	25.7	26.4	26.4	27.2	28.1
12H	21.5	22.2	22.2	22.9	23.8	26.9	27.6	27.6	28.4	29.3
8H 4H	19.6	20.4	20.4	21.1	22.0	22.9	23.6	23.6	24.4	25.3
6H	20.7	21.4	21.5	22.1	23.1	25.0	25.7	25.8	26.4	27.3
8H	21.4	21.9	22.1	22.7	23.7	26.3	26.8	27.0	27.6	28.6
12H	22.2	22.7	23.0	23.5	24.5	27.7	28.3	28.5	29.1	30.0
12H 4H	19.9	20.6	20.7	21.4	22.3	22.8	23.5	23.6	24.3	25.2
6H	21.1	21.7	21.9	22.4	23.4	25.0	25.6	25.8	26.4	27.3
8H	21.7	22.2	22.5	23.0	24.0	26.3	26.9	27.1	27.7	28.6
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1				
1.5H	+ 0.1 / - 0.1					+ 0.2 / - 0.2				
2.0H	+ 0.2 / - 0.2					+ 0.2 / - 0.3				

CIE Pub.117 Corrected 2540 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:24.92W PF:0.8878 Lamp Flux:2539.77x1 lm		
NAME: Vanity 24inch	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: WORBEST	SUR.:	PROTECTION ANGLE:

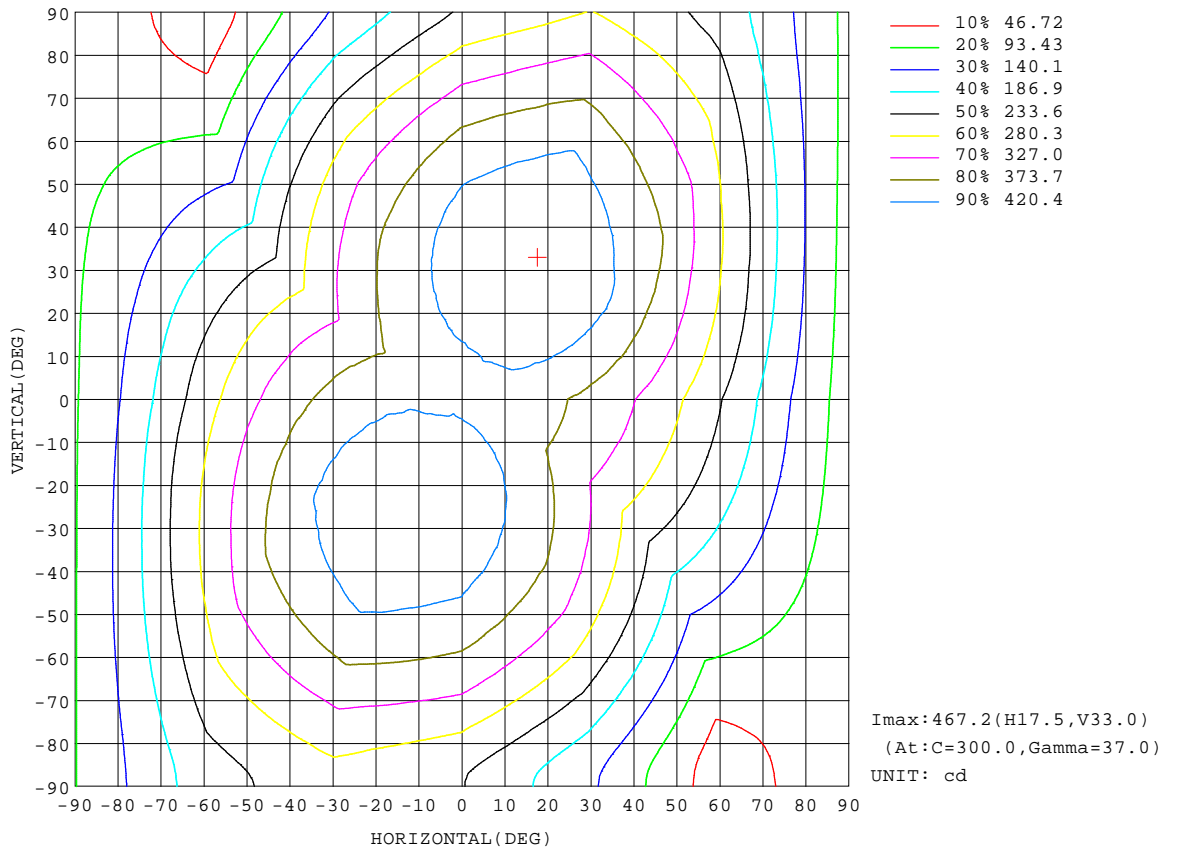
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	45	32	25	43	31	24	41	30	24	17
0.80	54	40	32	52	39	32	49	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	85	77	70	78	71	65	50
4.00	95	86	79	90	83	76	82	76	71	54
5.00	98	90	84	93	86	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:24.92W PF:0.8878 Lamp Flux:2539.77x1 lm		
NAME: Vanity 24inch	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: WORBEST	SUR.:	PROTECTION ANGLE:

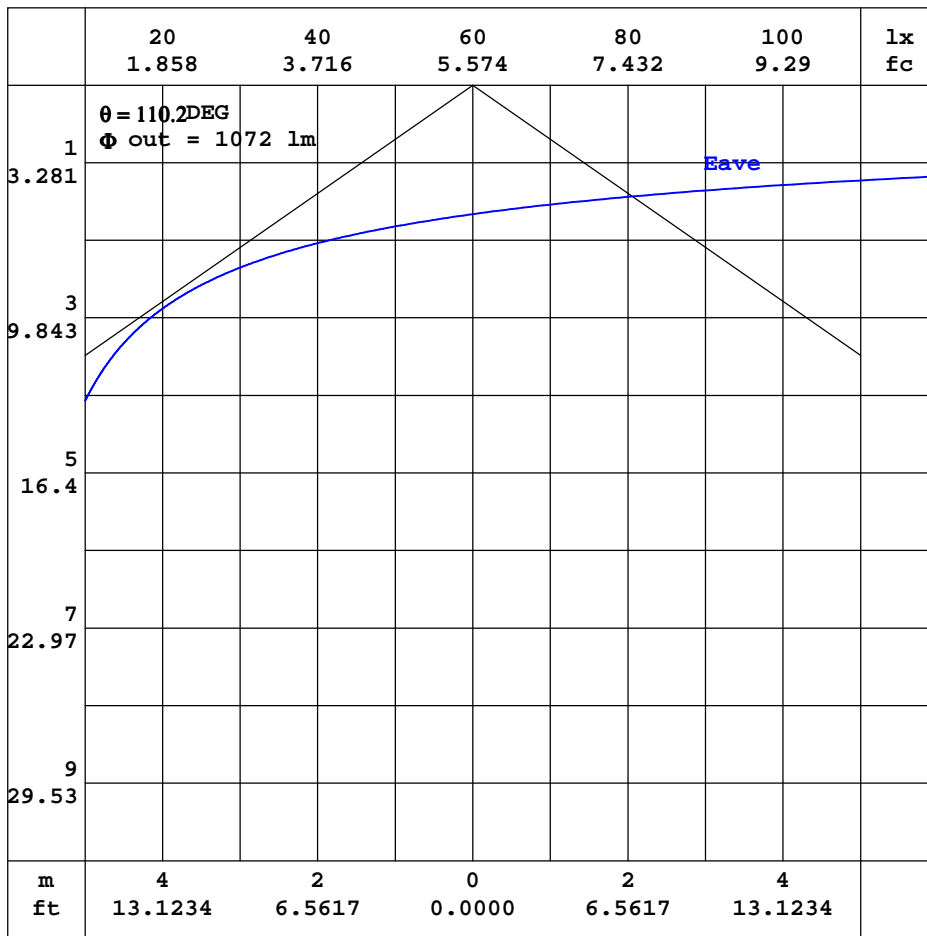


C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 曾本
Test Date: 2023.6.7

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:24.92W PF:0.8878 Lamp Flux:2539.77x1 lm		
NAME: Vanity 24inch	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: WORBEST	SUR.:	PROTECTION ANGLE:



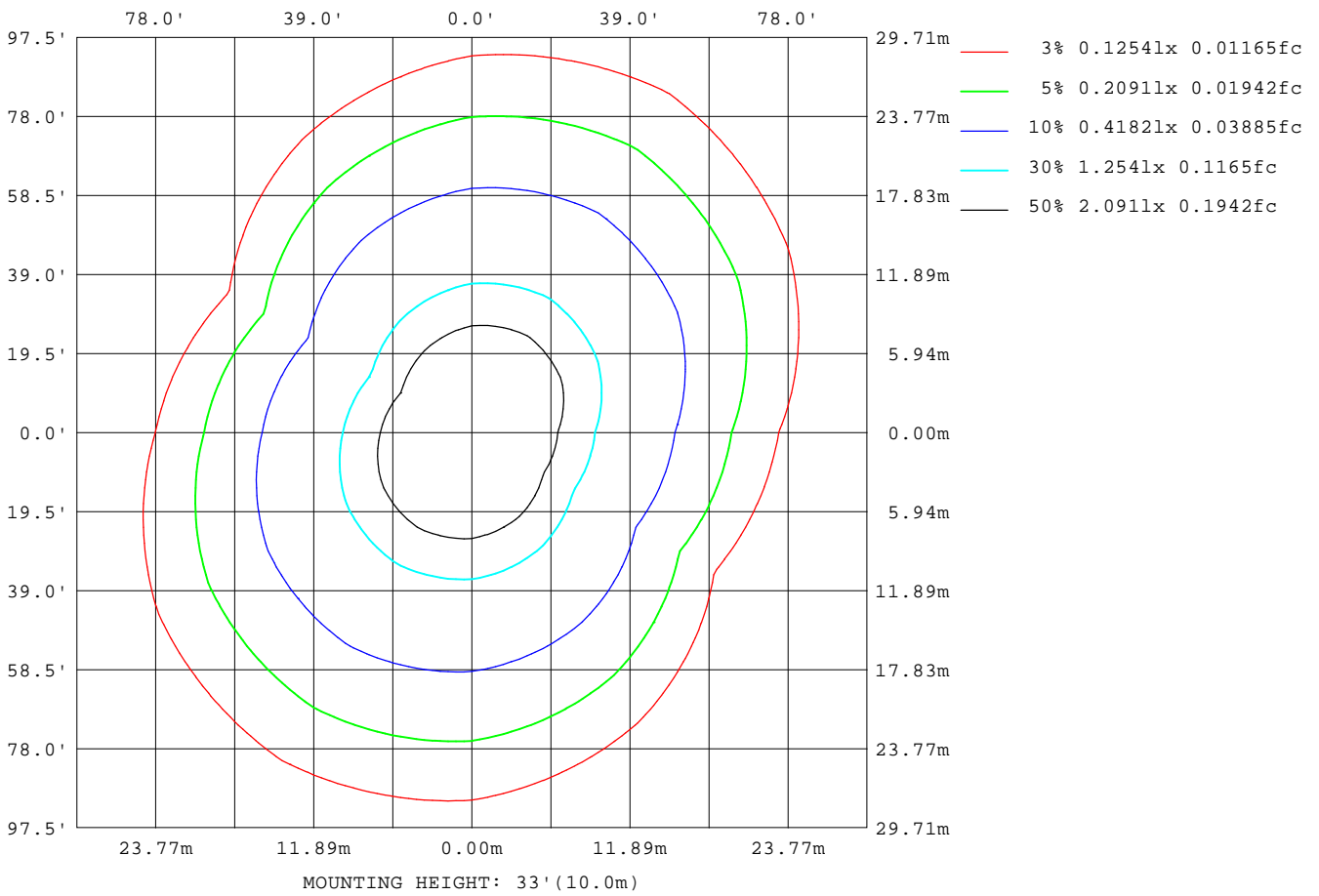
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

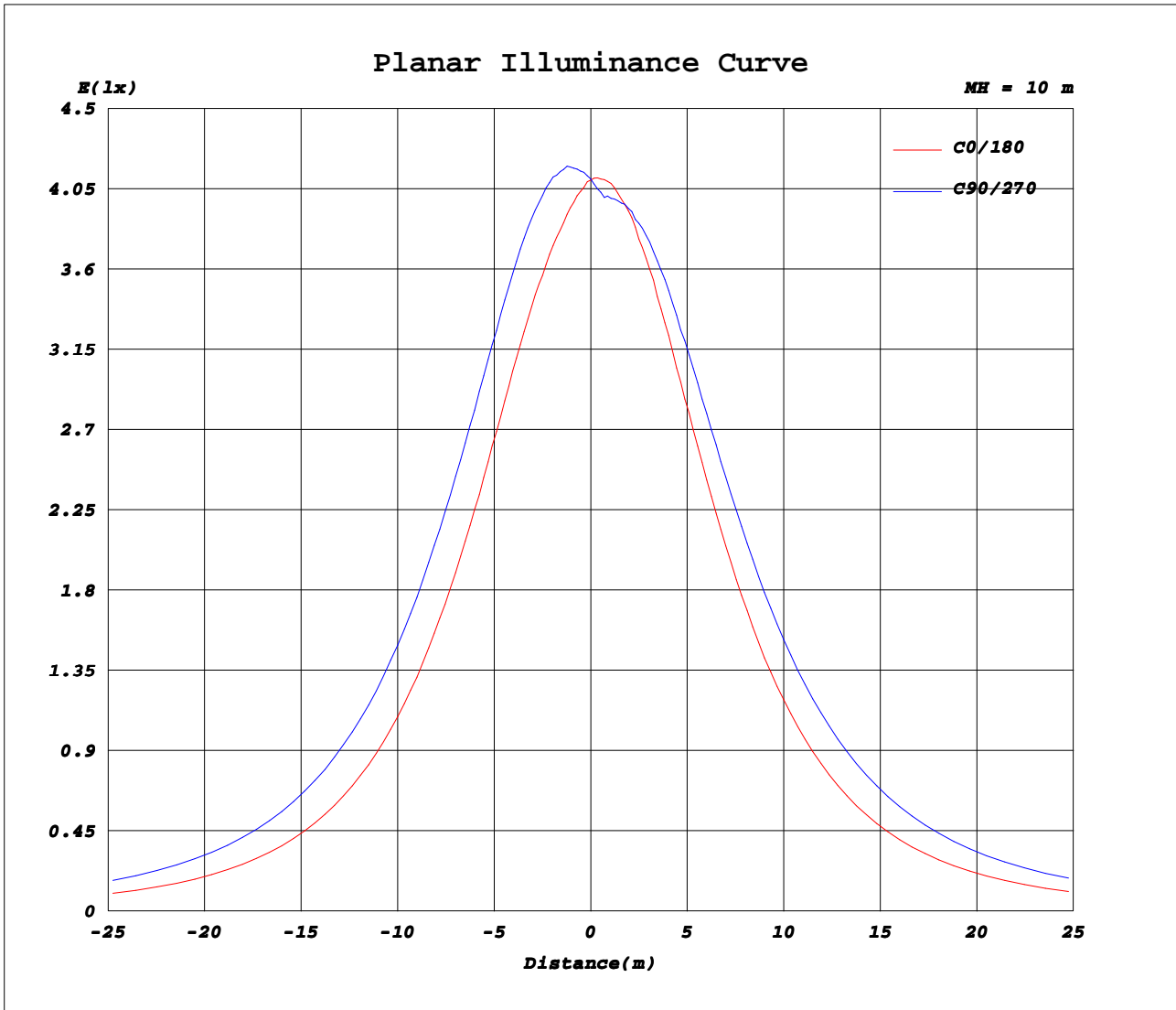
Test:U:119.6V I:0.2346A P:24.92W PF:0.8878 Lamp Flux:2539.77x1 lm		
NAME: Vanity 24inch	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: WORBEST	SUR.:	PROTECTION ANGLE:



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:24.92W PF:0.8878 Lamp Flux:2539.77x1 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	410	410	409	411	409	406	410	410	409	411	409	406							
5	402	409	416	421	422	415	414	407	403	406	407	407							
10	396	403	420	432	436	424	415	400	404	415	421	416							
15	390	394	422	441	448	431	413	390	407	425	435	423							
20	383	380	420	447	457	437	407	376	405	433	447	429							
25	373	365	415	450	462	438	399	360	402	438	456	432							
30	360	347	407	449	464	437	388	341	395	442	463	432							
35	345	327	395	444	460	431	373	321	387	443	466	429							
40	328	303	381	435	453	423	355	299	376	439	465	422							
45	309	277	363	422	443	411	336	273	362	431	461	412							
50	287	249	343	407	430	395	313	247	345	420	453	400							
55	262	219	319	388	415	376	287	218	325	405	441	383							
60	236	188	294	367	397	354	259	188	302	387	425	363							
65	208	155	267	344	374	331	229	156	276	366	407	340							
70	179	122	238	319	349	305	198	125	249	342	386	314							
75	149	89.3	209	293	323	278	167	92.7	220	317	361	289							
80	121	58.4	182	268	299	252	137	62.0	192	291	336	263							
85	95.4	31.8	157	245	276	227	110	34.2	165	265	308	238							
90	81.3	20.3	147	236	267	212	92.0	15.0	144	240	282	218							
95	79.8	17.3	143	228	257	207	88.3	12.2	139	231	270	214							
100	75.6	10.5	134	188	235	184	82.2	10.5	134	193	246	189							
105	64.3	2.96	112	188	230	164	69.7	8.96	116	194	242	171							
110	56.3	1.15	101	182	221	160	60.4	8.58	104	191	234	169							
115	52.9	1.10	96.1	173	208	154	55.8	8.72	98.3	183	223	163							
120	49.8	1.13	90.5	161	192	144	49.7	8.69	94.5	173	209	155							
125	44.9	1.16	81.9	146	175	131	35.4	7.78	88.1	161	194	144							
130	36.2	1.19	68.0	131	157	117	20.1	6.53	78.1	147	177	132							
135	28.3	1.21	48.6	115	136	98.0	10.2	5.43	64.3	127	158	118							
140	22.6	1.22	28.3	93.4	113	73.7	1.86	4.70	50.0	104	138	102							
145	17.8	1.22	11.7	68.5	84.5	51.8	1.16	4.01	37.0	87.1	118	85.9							
150	14.3	1.21	2.15	43.4	54.8	34.0	1.19	3.37	27.4	74.2	96.8	69.6							
155	11.4	1.17	1.28	21.3	29.8	23.5	1.16	2.71	20.7	53.5	75.5	54.0							
160	8.70	1.22	1.30	9.50	16.4	11.5	1.15	2.32	15.6	36.1	55.5	41.9							
165	6.87	1.40	1.32	2.04	1.07	1.74	1.17	2.05	10.9	23.0	39.7	30.0							
170	5.16	1.44	1.34	1.13	1.84	1.03	1.22	1.76	7.93	12.5	23.9	18.8							
175	2.94	1.47	1.36	1.74	1.83	1.14	1.32	1.47	4.24	5.47	11.3	8.56							
180	1.43	1.38	1.45	1.49	2.22	1.62	1.43	1.38	1.44	1.52	2.16	1.59							

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