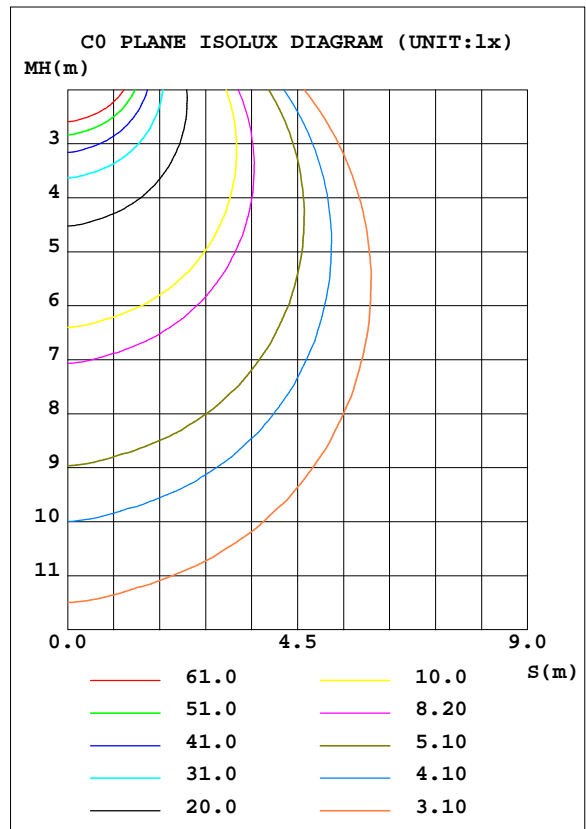
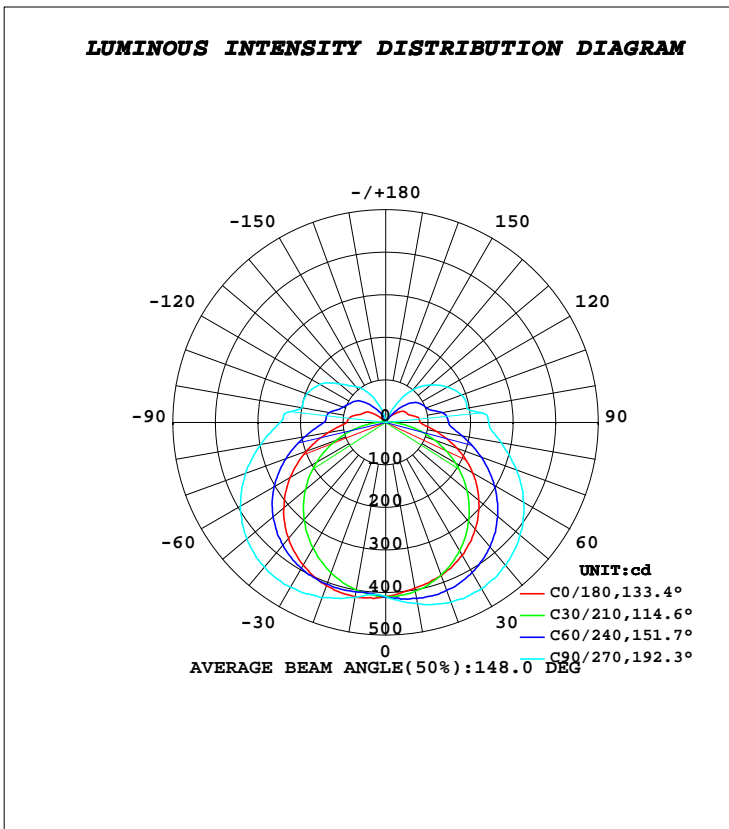


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.6V I:0.2346A P:24.92W PF:0.8878 Lamp Flux:2559.9x1 lm		
NAME: Vanity 24inch	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: ASL Global.	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 102.74 lm/W			
MODEL	VBDF24	I _{max} (cd)	467.1	S/MH(C0/180)	1.31
NOMINAL POWER(W)	25	LOR(%)	100.0	S/MH(C90/270)	1.63
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	2559.9	η UP, DN(C0-180)	11.7, 37.1
NOMINAL FLUX(lm)	2559.9	CIE CLASS	SEMI-D.	η UP, DN(C180-360)	12.8, 38.4
LAMPS INSIDE	1	η up(%)	24.5	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	119.6	η down(%)	75.5	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	395.4	411.7	432.1	430.6	415.4	402.5	417.1	419.0	0- 10	39.39	39.39	1.54,1.54
20	382.8	400.7	449.2	447.6	408.7	390.5	437.7	438.9	10- 20	118.6	158.0	6.17,6.17
30	360.7	377.6	451.2	450.5	387.6	368.7	447.6	448.6	20- 30	192.6	350.6	13.7,13.7
40	327.6	342.6	438.8	439.4	355.2	337.1	443.2	445.2	30- 40	252.6	603.2	23.6,23.6
50	286.0	296.9	411.9	414.4	312.6	296.5	425.9	427.1	40- 50	290.9	894.1	34.9,34.9
60	236.1	241.7	374.7	377.4	259.7	245.6	394.4	395.0	50- 60	302.9	1197	46.8,46.8
70	178.5	181.3	327.4	329.1	198.8	187.1	350.5	351.6	60- 70	287.2	1484	58,58
80	120.4	121.0	276.3	278.1	137.1	127.6	297.5	301.0	70- 80	248.2	1732	67.7,67.7
90	81.13	84.53	242.4	241.8	92.08	80.56	248.5	251.5	80- 90	199.7	1932	75.5,75.5
100	75.34	72.63	194.0	211.6	82.34	73.16	201.0	218.5	90-100	170.7	2103	82.1,82.1
110	56.69	51.56	189.8	191.7	60.38	57.82	197.0	202.7	100-110	140.4	2243	87.6,87.6
120	51.29	46.31	167.0	169.6	50.15	51.29	179.0	183.3	110-120	118.9	2362	92.3,92.3
130	36.69	34.85	137.8	138.3	22.28	43.06	140.8	155.3	120-130	91.73	2454	95.9,95.9
140	22.59	15.81	101.0	92.58	3.536	27.94	110.7	121.3	130-140	59.68	2513	98.2,98.2
150	14.42	2.309	47.12	40.45	1.178	15.70	79.79	83.94	140-150	31.08	2544	99.4,99.4
160	8.820	1.274	2.958	12.28	1.153	8.975	39.64	49.10	150-160	11.80	2556	99.9,99.9
170	5.335	1.397	1.038	2.562	1.211	4.793	13.18	21.07	160-170	3.197	2559	100,100
180	1.407	1.374	1.249	1.884	1.401	1.365	1.316	1.890	170-180	0.4345	2560	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

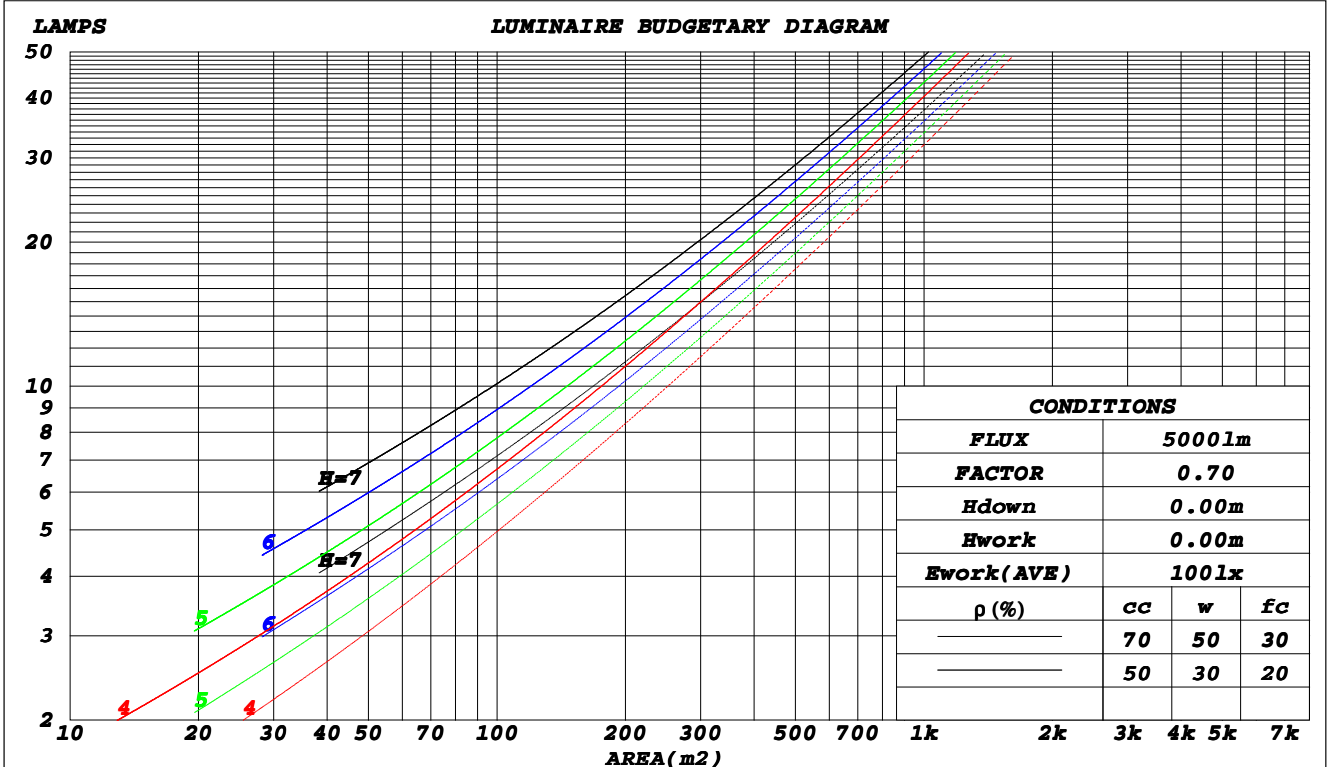
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:曾本
Test Date:2023.6.7

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:2559.9x1 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						Coefficients of Utilization(CU)									
0.0	1.13	1.13	1.13	1.08	1.08	1.08	.97	.97	.97	.88	.88	.88	.80	.80	.80	.75
1.0	.94	.88	.83	.89	.84	.80	.80	.76	.73	.72	.69	.66	.64	.62	.60	.56
2.0	.80	.72	.65	.76	.68	.62	.68	.62	.57	.61	.56	.52	.54	.51	.47	.44
3.0	.69	.60	.52	.65	.57	.50	.59	.52	.46	.53	.47	.42	.47	.43	.39	.35
4.0	.60	.51	.43	.57	.48	.42	.51	.44	.38	.46	.40	.35	.41	.36	.32	.29
5.0	.53	.44	.37	.51	.42	.35	.46	.38	.33	.41	.35	.30	.37	.32	.27	.25
6.0	.47	.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	.21	.30	.24	.20	.27	.22	.18	.16
9.0	.35	.27	.21	.34	.26	.20	.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:2559.9x1 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	.393	.223	.071	.378	.216	.069	.351	.201	.064	.325	.188	.060	.302	.175	.056	
2.0	.338	.185	.057	.325	.179	.055	.300	.167	.052	.277	.155	.049	.255	.145	.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	.154	.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	.080	.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	.377	.377	.377	.323	.323	.323	.220	.220	.220	.126	.126	.126	.040	.040	.040	
1.0	.374	.344	.316	.320	.295	.272	.219	.203	.188	.126	.117	.109	.040	.038	.035	
2.0	.368	.321	.282	.315	.277	.244	.216	.191	.170	.125	.111	.100	.040	.036	.032	
3.0	.361	.305	.261	.309	.263	.226	.212	.183	.159	.123	.107	.093	.039	.035	.031	
4.0	.353	.293	.247	.303	.253	.215	.208	.176	.151	.121	.103	.089	.039	.034	.029	
5.0	.346	.283	.237	.297	.245	.206	.204	.171	.146	.118	.101	.086	.038	.033	.029	
6.0	.338	.276	.231	.291	.239	.201	.201	.167	.142	.116	.098	.084	.038	.032	.028	
7.0	.331	.269	.226	.285	.233	.197	.197	.164	.139	.114	.096	.083	.037	.032	.027	
8.0	.325	.264	.222	.279	.229	.193	.193	.161	.137	.112	.095	.082	.036	.031	.027	
9.0	.318	.259	.219	.274	.225	.191	.190	.158	.135	.111	.093	.081	.036	.031	.027	
10.0	.312	.255	.216	.269	.221	.189	.187	.156	.134	.109	.092	.080	.035	.030	.027	

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:2559.9x1 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	15.8	17.1	17.8	17.9	19.2	18.5	19.8	20.5
3H	17.2	18.4	17.8	19.0	19.8	20.7	21.9	21.3	22.5	23.2
4H	18.2	19.4	18.8	20.0	20.8	22.2	23.3	22.8	23.9	24.7
6H	19.2	20.3	19.9	21.0	21.8	23.8	24.9	24.5	25.6	26.3
8H	19.8	20.9	20.5	21.5	22.3	24.7	25.8	25.4	26.5	27.2
12H	20.4	21.4	21.1	22.1	22.9	25.8	26.8	26.5	27.5	28.3
4H 2H	16.1	17.2	16.7	17.9	18.6	18.2	19.4	18.8	20.0	20.8
3H	18.0	19.0	18.7	19.7	20.5	21.2	22.2	21.8	22.9	23.7
4H	19.0	19.9	19.7	20.6	21.4	22.8	23.8	23.5	24.5	25.3
6H	20.1	20.9	20.8	21.6	22.5	24.7	25.5	25.4	26.3	27.1
8H	20.7	21.5	21.5	22.2	23.1	25.8	26.6	26.5	27.3	28.2
12H	21.5	22.2	22.2	22.9	23.8	27.0	27.7	27.8	28.5	29.4
8H 4H	19.6	20.4	20.4	21.1	22.0	23.0	23.7	23.7	24.5	25.3
6H	20.7	21.4	21.5	22.1	23.1	25.1	25.7	25.9	26.5	27.4
8H	21.3	21.9	22.1	22.7	23.7	26.4	26.9	27.1	27.7	28.7
12H	22.2	22.7	23.0	23.5	24.4	27.9	28.4	28.7	29.2	30.1
12H 4H	19.9	20.6	20.7	21.4	22.3	22.9	23.6	23.7	24.4	25.3
6H	21.1	21.7	21.9	22.4	23.4	25.1	25.7	25.9	26.5	27.4
8H	21.7	22.2	22.5	23.0	24.0	26.5	27.0	27.2	27.8	28.7
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 2560 lm Total Lamp Luminous Flux.(8log(F/F0) = 3.3)

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:2559.9x1 lm		
NAME: Vanity 24inch	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: WORBEST	SUR.:	PROTECTION ANGLE:

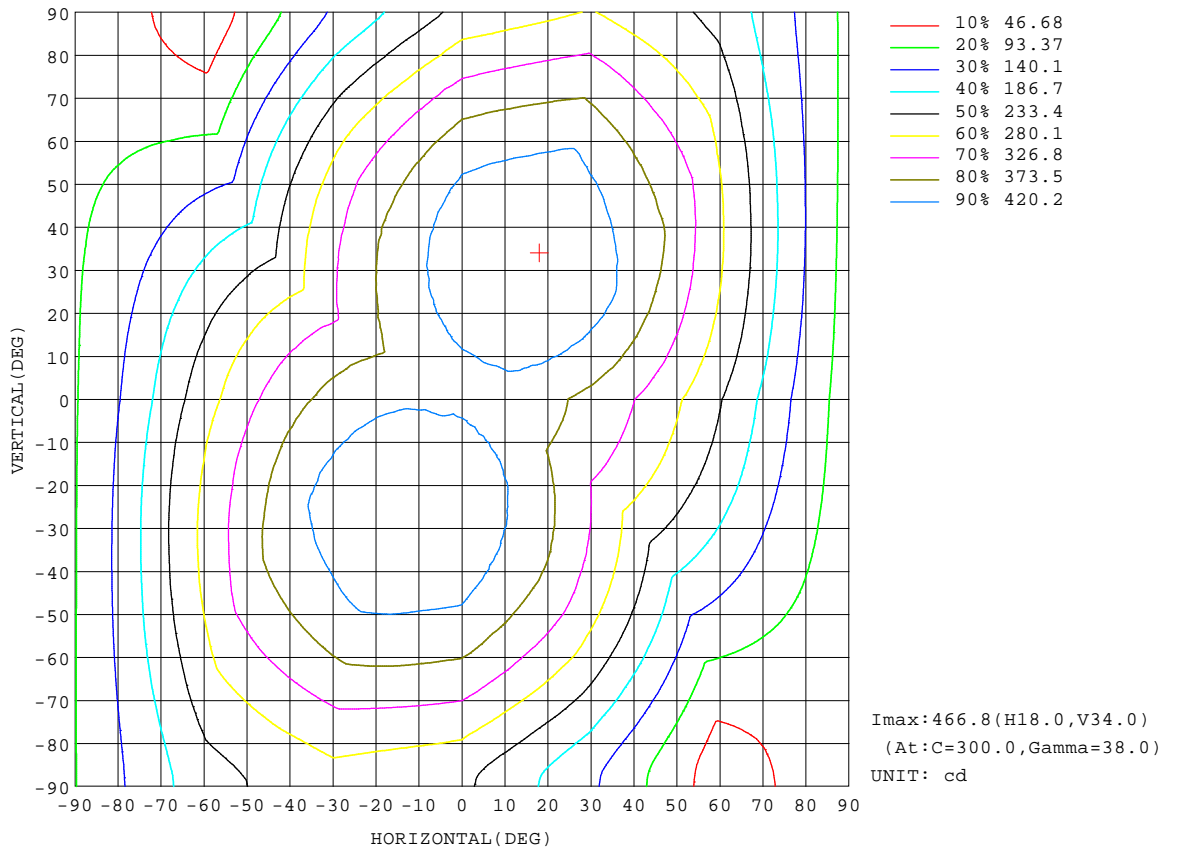
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	45	32	25	43	31	24	41	30	24	17
0.80	54	40	32	52	39	32	49	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	73	61	52	70	59	51	65	55	48	37
2.00	81	69	61	77	67	59	71	62	56	43
2.50	86	75	67	82	72	65	75	67	60	46
3.00	90	80	72	85	77	70	78	71	65	50
4.00	94	86	79	90	82	76	82	76	71	54
5.00	98	90	84	93	86	81	84	79	75	57
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:2559.9x1 lm		
NAME: Vanity 24inch	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: WORBEST	SUR.:	PROTECTION ANGLE:

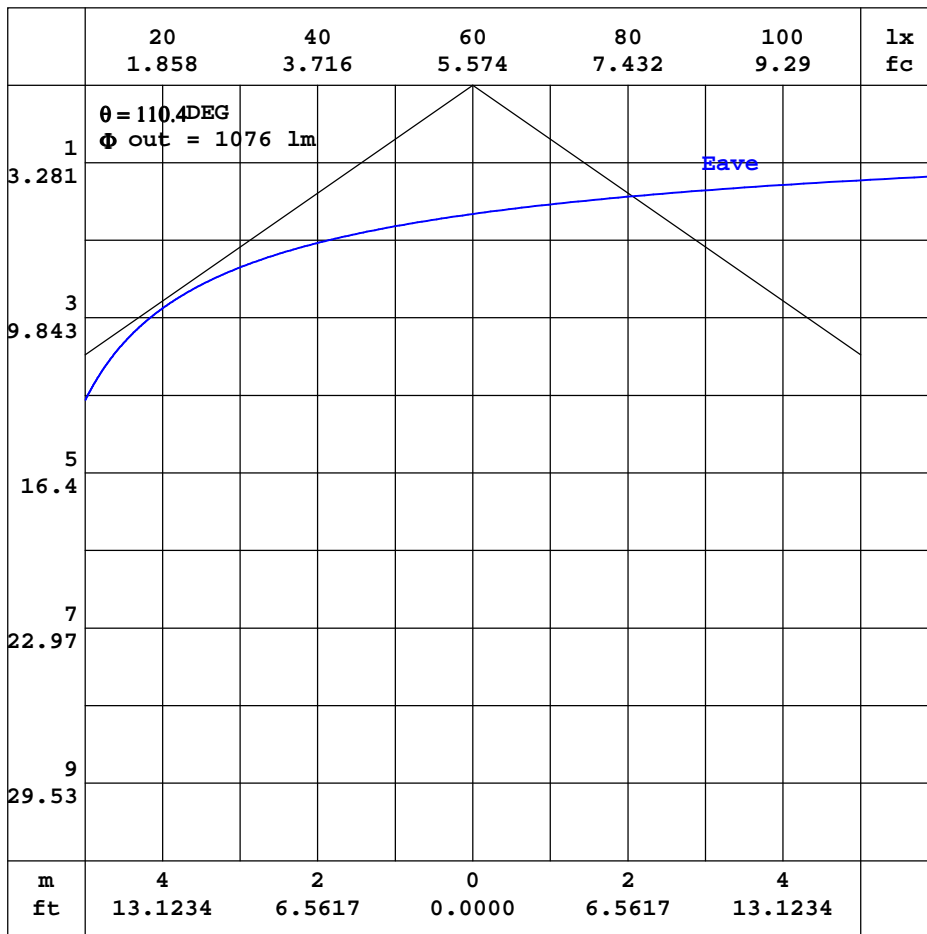


C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 曾本
Test Date: 2023.6.7

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:2559.9x1 lm		
NAME: Vanity 24inch	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: WORBEST	SUR.:	PROTECTION ANGLE:



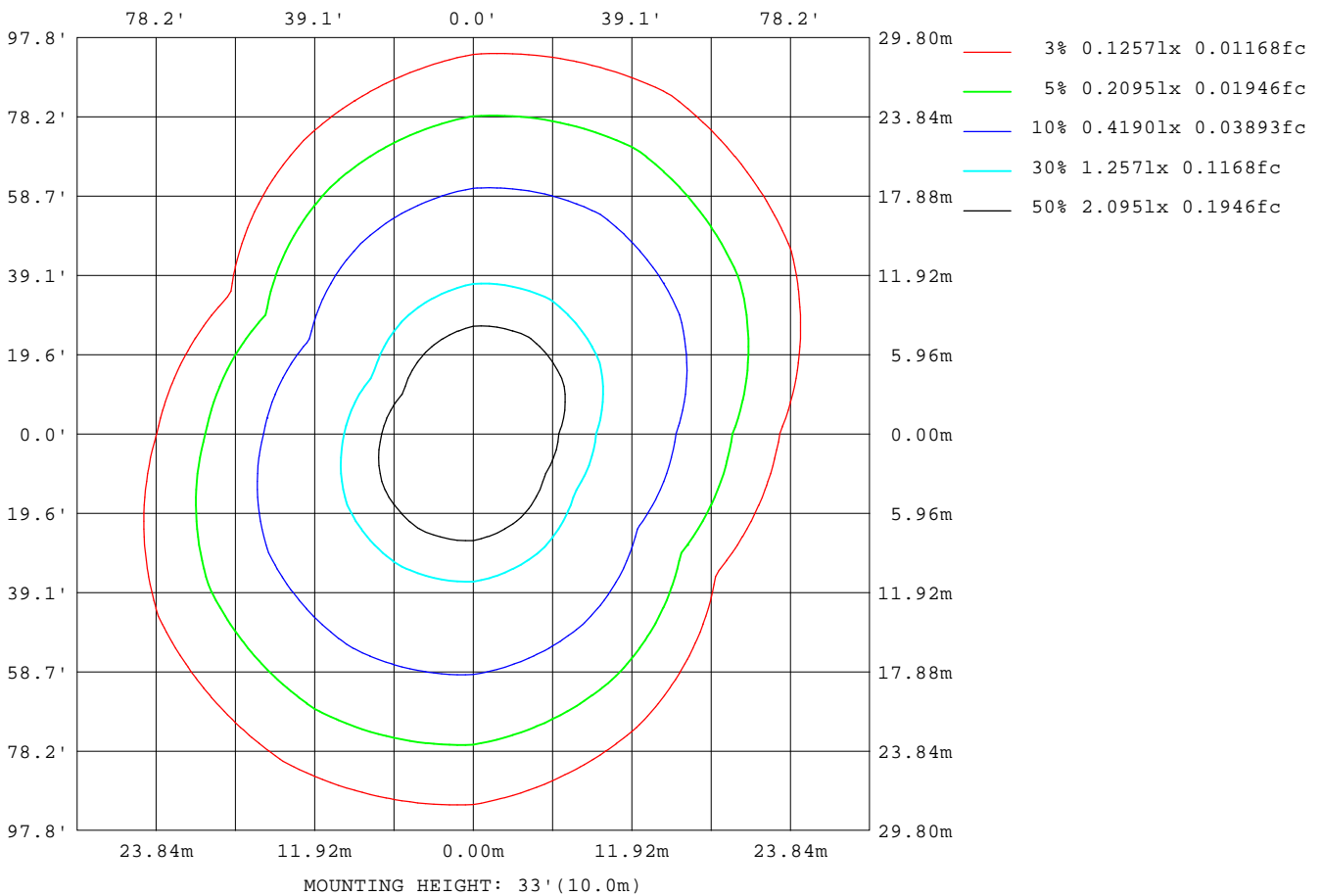
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

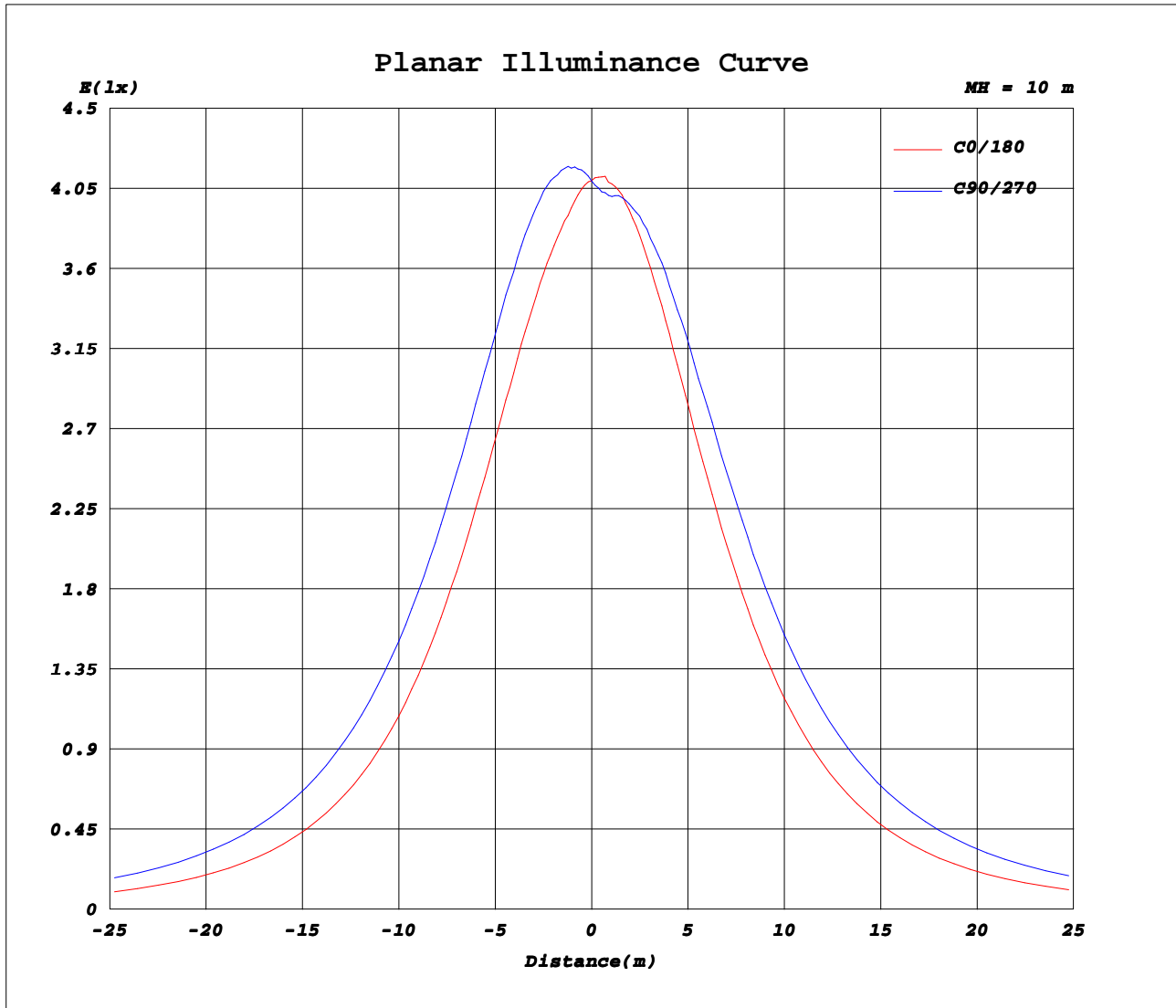
Test:U:119.6V I:0.2346A P:24.92W PF:0.8878 Lamp Flux:2559.9x1 lm		
NAME: Vanity 24inch	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: WORBEST	SUR.:	PROTECTION ANGLE:



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:2559.9x1 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	409	409	411	409	409	405	409	409	411	409	409	405							
5	403	408	417	422	423	415	413	407	403	406	407	407							
10	395	403	421	432	436	425	415	401	404	417	421	417							
15	390	394	422	443	447	433	414	390	406	428	434	425							
20	383	382	420	449	456	439	409	376	405	438	447	431							
25	373	366	415	452	461	441	399	360	402	444	456	434							
30	361	348	407	451	463	439	388	341	396	448	463	434							
35	345	327	396	447	460	434	373	320	388	447	466	431							
40	328	303	382	439	454	425	355	298	377	443	466	425							
45	308	277	365	427	445	413	336	273	362	436	461	414							
50	286	250	344	412	431	398	313	247	346	426	453	401							
55	262	220	320	394	415	380	287	219	326	412	442	385							
60	236	189	294	375	396	359	260	188	303	394	426	364							
65	208	157	267	352	373	336	230	157	277	374	407	343							
70	179	123	239	327	348	310	199	125	250	351	385	319							
75	149	90.4	211	301	323	283	167	92.7	221	324	361	292							
80	120	59.2	183	276	299	257	137	62.2	193	298	336	266							
85	95.1	32.6	159	252	277	232	110	34.5	167	272	309	240							
90	81.1	20.8	148	242	268	216	92.1	15.5	146	249	282	221							
95	79.6	17.8	145	234	257	211	88.4	12.8	141	239	271	217							
100	75.3	10.6	135	194	234	189	82.3	11.0	135	201	246	191							
105	63.9	2.86	112	195	229	167	70.1	9.33	117	200	242	174							
110	56.7	1.09	102	190	220	163	60.4	8.99	107	197	234	171							
115	54.2	1.03	97.1	180	208	157	55.7	8.95	99.5	189	223	166							
120	51.3	1.06	91.6	167	193	147	50.2	9.07	93.5	179	209	157							
125	46.1	1.10	82.5	153	175	135	38.0	8.14	87.8	163	194	146							
130	36.7	1.12	68.6	138	156	120	22.3	6.84	79.3	141	177	133							
135	28.5	1.16	50.5	121	135	102	11.9	5.67	65.5	123	158	119							
140	22.6	1.17	30.5	101	108	77.4	3.54	4.86	51.0	111	139	104							
145	17.7	1.18	13.1	76.6	78.0	53.9	1.17	4.15	37.7	96.8	118	87.5							
150	14.4	1.19	3.43	47.1	49.0	31.9	1.18	3.47	27.9	79.8	97.1	70.8							
155	11.6	1.15	1.26	19.5	28.0	17.0	1.15	2.77	20.8	58.6	75.8	54.6							
160	8.82	1.25	1.29	2.96	19.0	5.53	1.15	2.35	15.6	39.6	55.8	42.4							
165	7.06	1.39	1.32	1.06	1.79	1.00	1.17	2.07	10.9	24.9	39.8	30.3							
170	5.33	1.45	1.34	1.04	3.86	1.27	1.21	1.75	7.83	13.2	23.3	18.8							
175	3.03	1.46	1.35	1.05	1.88	1.11	1.31	1.46	4.07	5.29	10.3	8.45							
180	1.41	1.35	1.40	1.25	2.26	1.50	1.40	1.35	1.38	1.32	2.27	1.51							

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