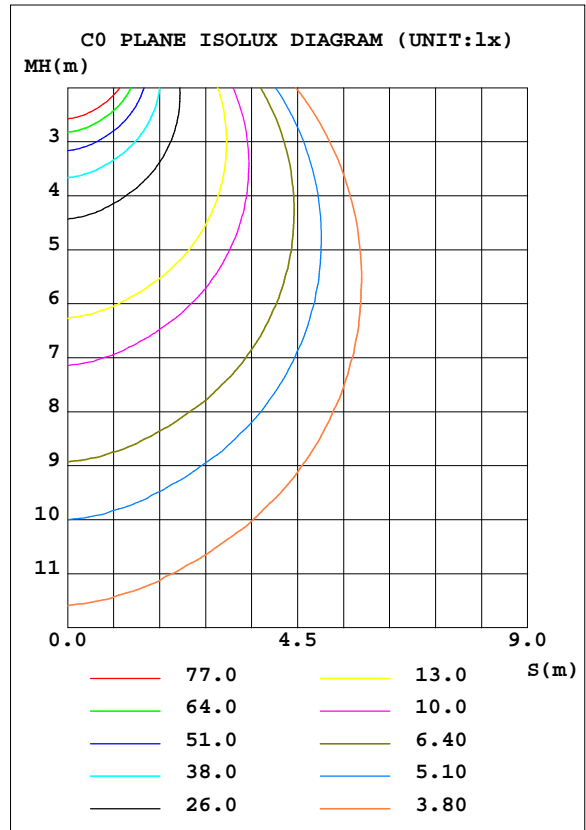
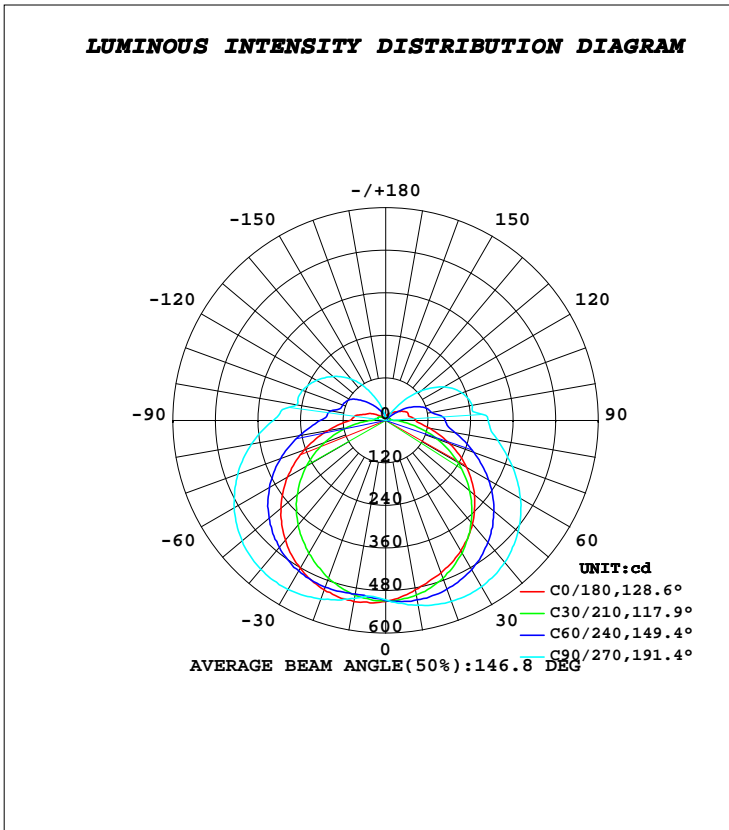


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.6V I:0.2780A P:29.62W PF:0.8908 Lamp Flux:3088.96x1 lm		
NAME: Vanity 36inch	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: ASL Global.	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 104.29 lm/W			
MODEL	VBDB36	I _{max} (cd)	573.0	S/MH(C0/180)	1.24
NOMINAL POWER(W)	30	LOR(%)	100.0	S/MH(C90/270)	1.59
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	3089.0	η UP, DN(C0-180)	10.5, 36.8
NOMINAL FLUX(lm)	3088.96	CIE CLASS	SEMI-D.	η UP, DN(C180-360)	13.2, 39.5
LAMPS INSIDE	1	η up(%)	23.8	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	119.6	η down(%)	76.2	CIBSE SHR MAX	1.55



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 曾本
Test Date: 20230607

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	484.6	506.9	529.0	530.6	518.9	498.9	510.2	513.7	0- 10	48.64	48.64	1.57,1.57
20	457.2	489.8	543.3	549.6	508.5	486.9	536.2	535.6	10- 20	145.7	194.4	6.29,6.29
30	425.0	458.8	541.7	553.6	482.1	461.7	550.4	544.9	20- 30	235.8	430.1	13.9,13.9
40	380.7	412.4	522.4	539.1	440.3	425.6	548.0	538.3	30- 40	308.2	738.3	23.9,23.9
50	326.3	353.9	487.7	509.1	386.1	377.6	528.8	515.6	40- 50	354.3	1093	35.4,35.4
60	263.3	285.0	438.9	462.0	320.5	318.6	493.4	476.2	50- 60	368.3	1461	47.3,47.3
70	192.8	210.7	380.4	402.3	245.0	249.8	444.5	422.5	60- 70	348.8	1810	58.6,58.6
80	124.2	138.5	320.7	336.9	166.4	176.9	383.9	361.5	70- 80	301.8	2111	68.4,68.4
90	85.83	98.62	289.6	283.9	101.3	113.8	317.5	306.8	80- 90	243.3	2355	76.2,76.2
100	67.63	73.94	247.6	246.3	84.74	93.27	255.5	267.4	90-100	201.4	2556	82.8,82.8
110	66.20	62.19	229.1	223.1	55.47	76.27	250.2	254.0	100-110	169.3	2725	88.2,88.2
120	52.62	42.21	190.2	188.6	36.63	69.39	225.8	228.0	110-120	141.3	2867	92.8,92.8
130	38.82	17.42	129.5	141.5	19.91	51.54	193.1	193.4	120-130	103.5	2970	96.2,96.2
140	29.00	6.185	58.04	85.90	10.74	34.42	153.6	152.4	130-140	64.76	3035	98.3,98.3
150	23.11	6.757	7.515	29.37	6.898	21.78	99.24	108.3	140-150	33.43	3069	99.3,99.3
160	19.00	9.365	5.913	4.397	6.637	17.58	48.90	66.39	150-160	14.07	3083	99.8,99.8
170	13.16	8.050	10.12	4.499	7.168	12.95	18.24	32.66	160-170	5.340	3088	100,100
180	8.020	8.061	8.127	6.745	8.006	8.048	8.147	6.810	170-180	1.049	3089	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

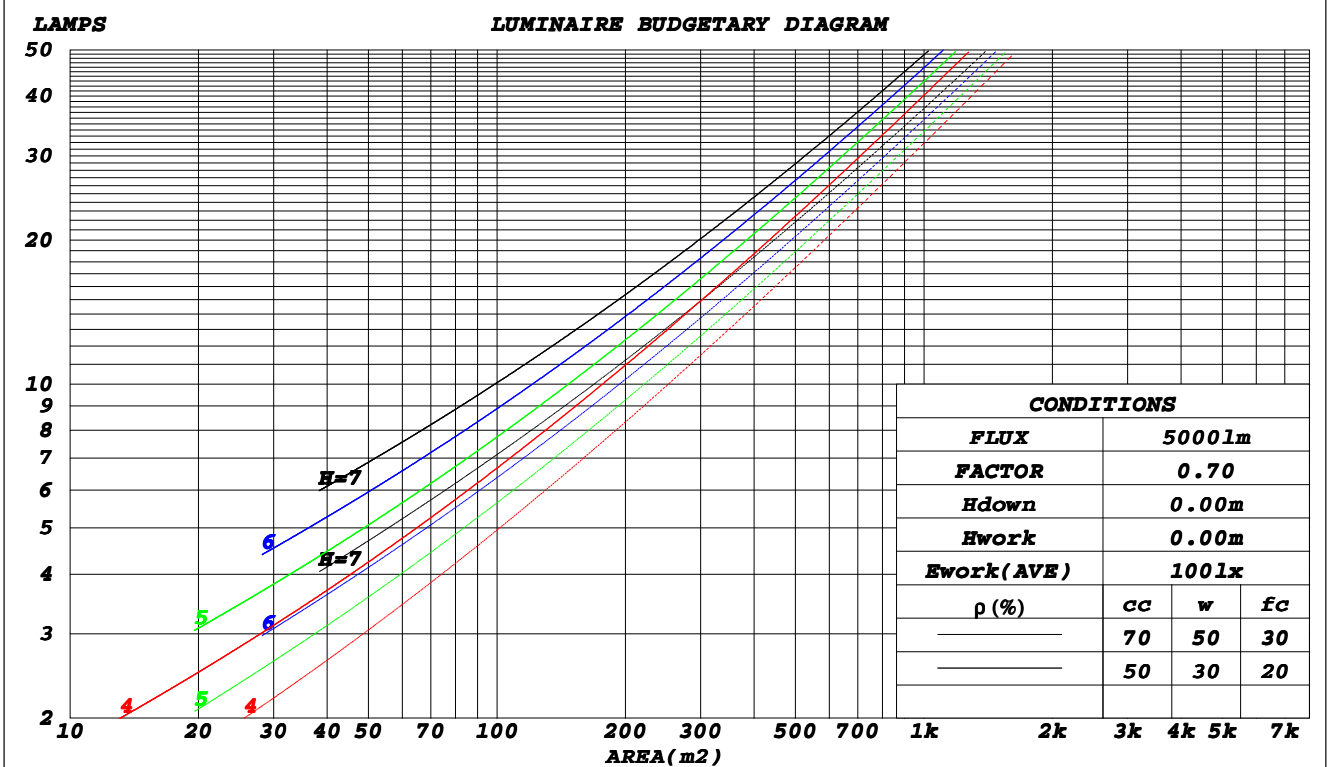
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:曾本
Test Date:20230607

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:0.2780A P:29.62W PF:0.8908 Lamp Flux:3088.96x1 lm		
NAME: Vanity 36inch	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	.98	.98	.98	.89	.89	.89	.80	.80	.80	.76
1.0	.94	.88	.83	.89	.84	.80	.80	.76	.73	.72	.69	.66	.65	.63	.60	.56
2.0	.80	.72	.65	.76	.69	.62	.68	.62	.57	.61	.57	.53	.55	.51	.48	.44
3.0	.69	.60	.52	.65	.57	.50	.59	.52	.47	.53	.47	.43	.47	.43	.39	.36
4.0	.60	.51	.43	.57	.49	.42	.52	.44	.39	.47	.41	.36	.42	.37	.33	.30
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	.25	.34	.27	.23	.30	.25	.21	.19
8.0	.39	.30	.24	.37	.29	.23	.34	.27	.22	.31	.25	.20	.28	.22	.19	.16
9.0	.35	.27	.21	.34	.26	.21	.31	.24	.19	.28	.22	.18	.26	.20	.17	.14
10.0	.32	.24	.19	.31	.23	.18	.28	.22	.17	.26	.20	.16	.24	.19	.15	.13



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: 曾本
 Test Date: 20230607

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:0.2780A P:29.62W PF:0.8908 Lamp Flux:3088.96x1 lm		
NAME: Vanity 36inch	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	.394	.224	.071	.379	.216	.069	.352	.202	.065	.327	.189	.061	.304	.176	.057	
2.0	.339	.186	.057	.326	.179	.055	.301	.167	.052	.278	.156	.049	.257	.146	.046	
3.0	.300	.160	.048	.288	.154	.046	.266	.144	.044	.245	.134	.041	.226	.125	.039	
4.0	.269	.140	.041	.259	.135	.040	.238	.126	.038	.219	.118	.036	.202	.110	.033	
5.0	.244	.124	.036	.235	.120	.035	.216	.112	.033	.199	.105	.031	.183	.098	.029	
6.0	.223	.112	.032	.215	.108	.031	.198	.101	.029	.182	.094	.028	.167	.088	.026	
7.0	.206	.102	.029	.198	.098	.028	.182	.092	.027	.168	.086	.025	.154	.080	.023	
8.0	.191	.093	.026	.183	.090	.025	.169	.084	.024	.155	.079	.023	.143	.073	.021	
9.0	.178	.086	.024	.171	.083	.023	.157	.078	.022	.145	.073	.021	.133	.068	.020	
10.0	.166	.080	.022	.160	.077	.022	.147	.072	.020	.136	.067	.019	.125	.063	.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	.372	.372	.372	.318	.318	.318	.217	.217	.217	.125	.125	.125	.040	.040	.040	
1.0	.369	.338	.310	.315	.290	.267	.216	.200	.185	.124	.115	.107	.040	.037	.035	
2.0	.362	.315	.276	.310	.272	.239	.213	.188	.166	.123	.109	.098	.039	.035	.032	
3.0	.355	.299	.255	.304	.258	.221	.209	.179	.155	.121	.105	.091	.039	.034	.030	
4.0	.347	.287	.241	.298	.248	.209	.205	.173	.147	.119	.101	.087	.038	.033	.029	
5.0	.340	.277	.231	.292	.240	.201	.201	.168	.142	.116	.098	.084	.038	.032	.028	
6.0	.332	.270	.225	.286	.234	.196	.197	.163	.138	.114	.096	.082	.037	.031	.027	
7.0	.325	.263	.220	.280	.228	.191	.193	.160	.136	.112	.094	.081	.036	.031	.027	
8.0	.319	.258	.216	.274	.223	.188	.190	.157	.133	.110	.093	.080	.036	.030	.026	
9.0	.312	.253	.213	.269	.220	.186	.186	.154	.132	.109	.091	.079	.035	.030	.026	
10.0	.307	.249	.210	.264	.216	.184	.183	.152	.130	.107	.090	.078	.035	.030	.026	

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: 曾本
 Test Date: 20230607

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:0.2780A P:29.62W PF:0.8908 Lamp Flux:3088.96x1 lm										
NAME: Vanity 36inch					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	15.7	17.1	16.3	17.7	18.3	18.3	19.7	18.9	20.2	20.9
3H	17.6	18.8	18.2	19.4	20.1	21.0	22.2	21.6	22.9	23.6
4H	18.5	19.7	19.1	20.3	21.0	22.5	23.7	23.1	24.3	25.0
6H	19.4	20.5	20.1	21.2	21.9	24.1	25.2	24.8	25.9	26.7
8H	19.9	20.9	20.5	21.6	22.4	25.1	26.1	25.7	26.8	27.6
12H	20.4	21.5	21.1	22.1	22.9	26.2	27.2	26.8	27.9	28.7
4H 2H	16.6	17.8	17.2	18.4	19.1	18.6	19.8	19.2	20.4	21.2
3H	18.4	19.5	19.1	20.1	20.9	21.5	22.5	22.2	23.2	24.0
4H	19.4	20.3	20.1	21.0	21.8	23.1	24.1	23.8	24.8	25.6
6H	20.4	21.2	21.1	21.9	22.8	25.0	25.9	25.7	26.6	27.4
8H	20.9	21.7	21.6	22.4	23.3	26.1	26.9	26.8	27.6	28.5
12H	21.6	22.3	22.3	23.0	23.9	27.4	28.1	28.1	28.8	29.7
8H 4H	20.0	20.8	20.7	21.5	22.4	23.3	24.0	24.0	24.8	25.6
6H	21.0	21.7	21.8	22.5	23.4	25.4	26.0	26.1	26.8	27.7
8H	21.6	22.2	22.4	23.0	23.9	26.6	27.2	27.4	28.0	28.9
12H	22.4	22.9	23.2	23.7	24.6	28.2	28.7	29.0	29.5	30.4
12H 4H	20.3	21.0	21.0	21.7	22.6	23.2	23.9	24.0	24.7	25.6
6H	21.4	22.0	22.2	22.8	23.7	25.4	26.0	26.2	26.7	27.7
8H	22.0	22.5	22.8	23.3	24.2	26.7	27.2	27.5	28.0	29.0
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					+ 0.3 / - 0.3				

CIE Pub.117 Corrected 3089 lm Total Lamp Luminous Flux.(8log(F/F0) = 3.9)

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:曾本
 Test Date:20230607

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:0.2780A P:29.62W PF:0.8908 Lamp Flux:3088.96x1 lm		
NAME: Vanity 36inch	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: WORBEST	SUR.:	PROTECTION ANGLE:

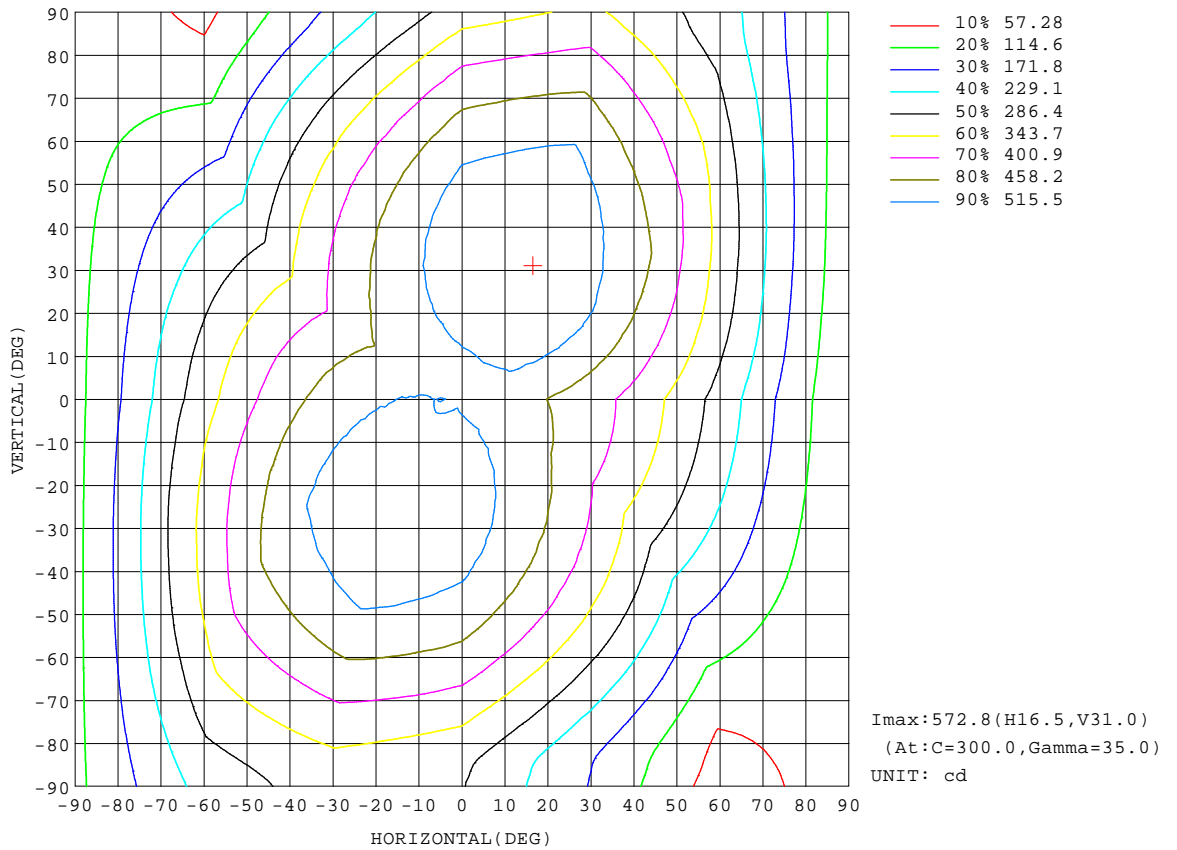
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	45	32	25	43	32	25	41	31	24	17
0.80	54	40	32	52	40	32	49	38	31	23
1.00	62	48	40	59	47	39	55	47	37	28
1.25	69	55	47	66	54	46	61	51	44	33
1.50	74	61	52	71	59	51	65	56	48	37
2.00	81	70	61	78	67	59	71	63	56	43
2.50	86	75	67	82	72	65	75	67	61	47
3.00	90	80	72	86	77	70	78	71	65	50
4.00	95	86	79	90	83	77	82	76	71	55
5.00	98	90	84	93	87	81	85	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: 20230607

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:0.2780A P:29.62W PF:0.8908 Lamp Flux:3088.96x1 lm		
NAME: Vanity 36inch	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: WORBEST	SUR.:	PROTECTION ANGLE:

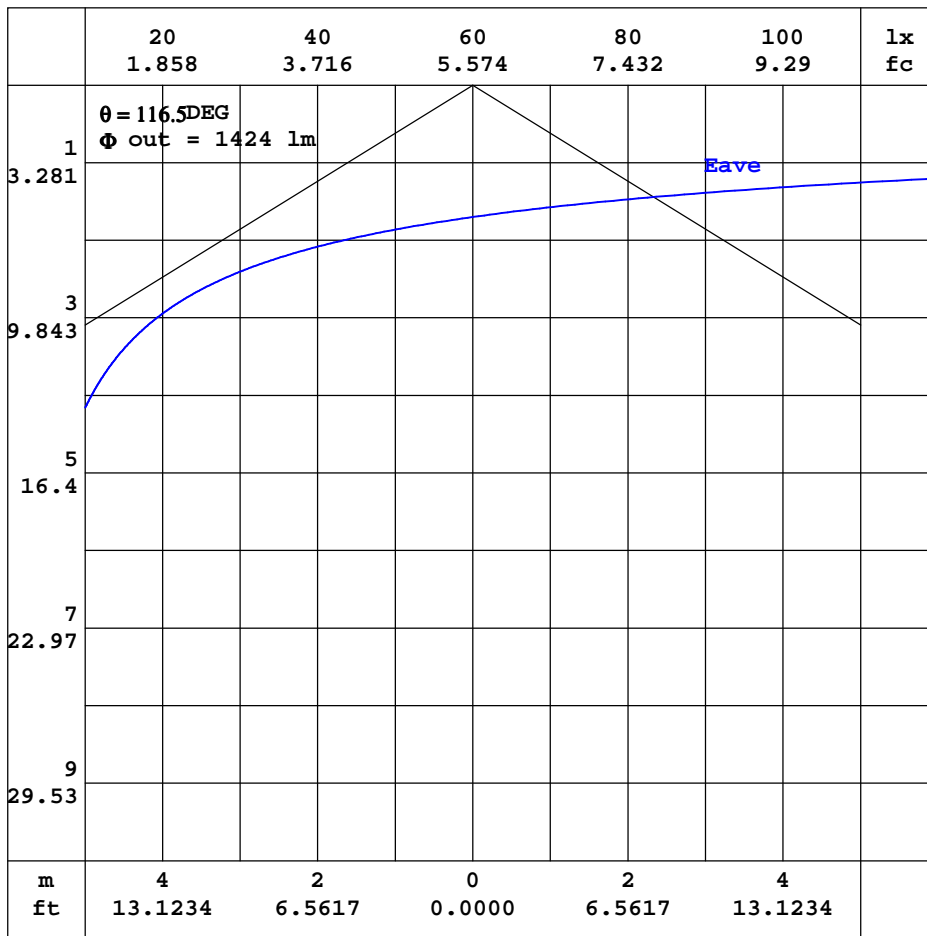


C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 曾本
Test Date: 20230607

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:0.2780A P:29.62W PF:0.8908 Lamp Flux:3088.96x1 lm		
NAME: Vanity 36inch	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: WORBEST	SUR.:	PROTECTION ANGLE:



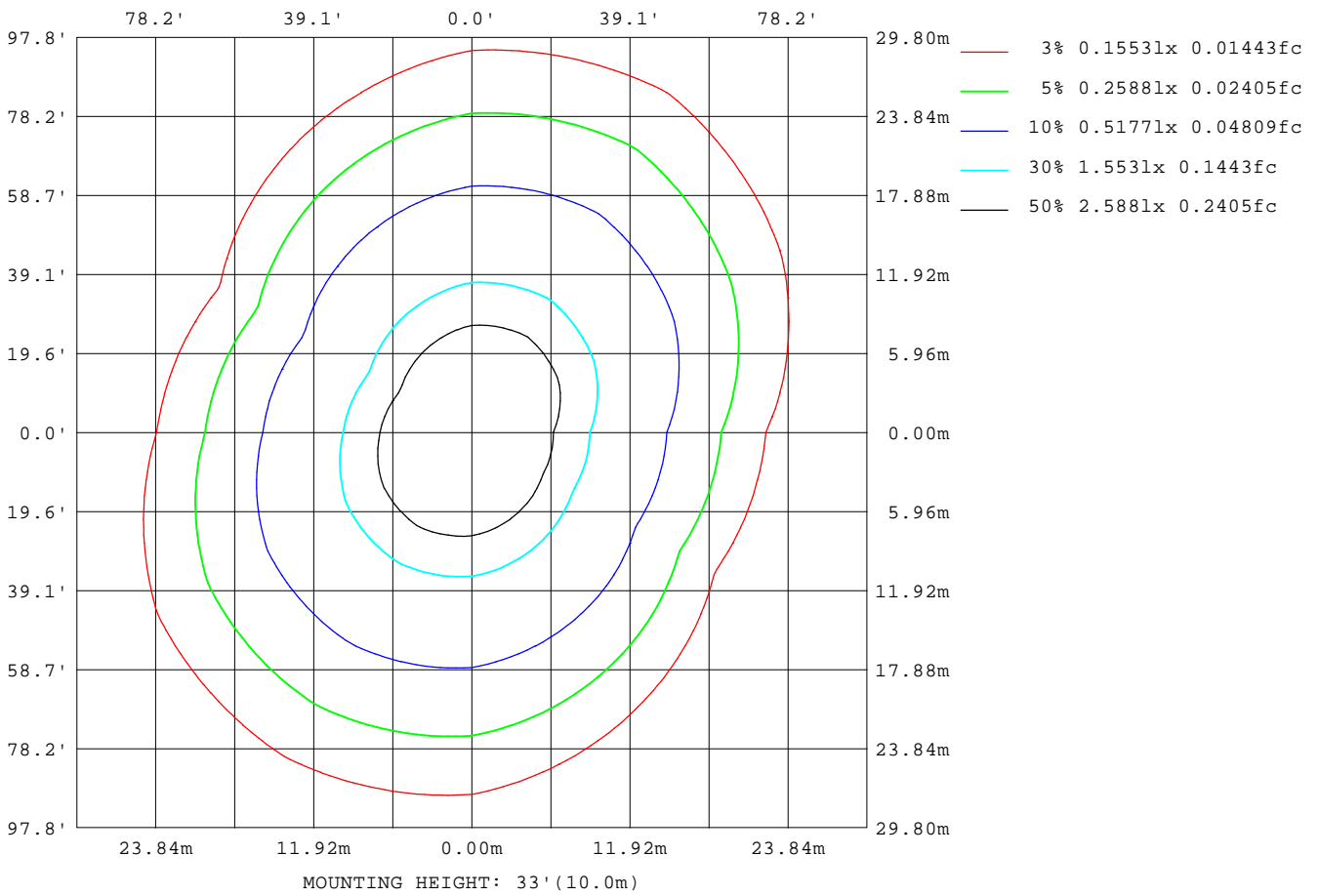
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 曾本
Test Date: 20230607

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

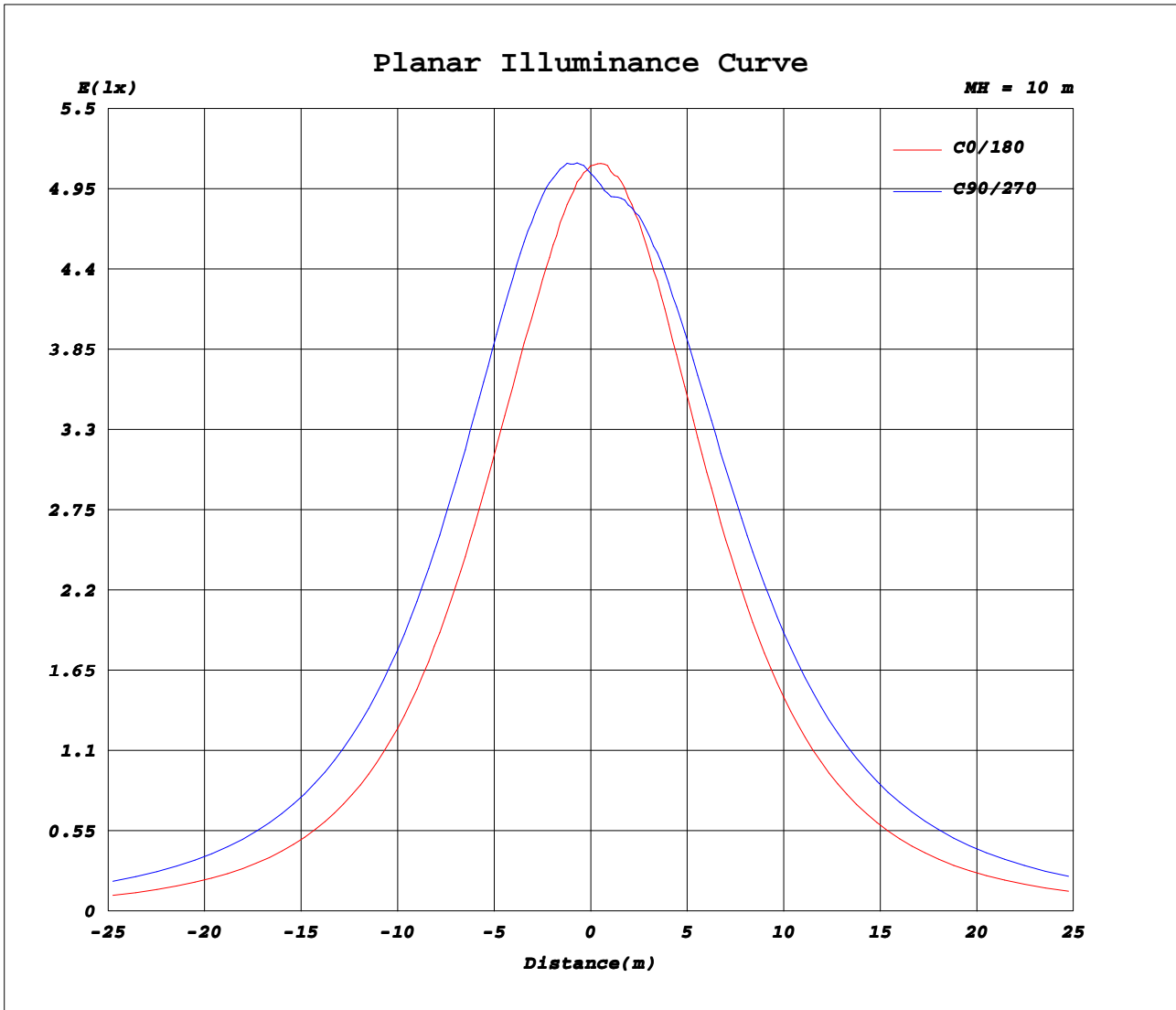
Test:U:119.6V I:0.2780A P:29.62W PF:0.8908 Lamp Flux:3088.96x1 lm		
NAME: Vanity 36inch	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: WORBEST	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 曾本
Test Date: 20230607

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: 20230607

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:0.2780A P:29.62W PF:0.8908 Lamp Flux:3088.96x1 lm		
NAME: Vanity 36inch	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	511	509	508	506	508	498	511	509	508	506	508	498							
5	499	507	513	518	524	511	517	507	501	498	501	501							
10	485	500	514	529	538	523	519	500	497	510	516	511							
15	470	489	512	538	551	533	516	488	500	524	533	519							
20	457	473	506	543	560	539	508	473	501	536	548	524							
25	442	454	497	545	566	541	497	454	497	545	560	526							
30	425	432	486	542	568	539	482	433	490	550	568	522							
35	405	405	469	535	565	533	463	410	480	552	573	515							
40	381	376	449	522	556	522	440	384	467	548	573	504							
45	354	343	427	506	543	508	415	356	451	540	567	490							
50	326	309	398	488	528	491	386	326	429	529	558	473							
55	296	272	368	465	505	469	354	294	405	513	544	451							
60	263	235	335	439	480	444	321	258	379	493	526	426							
65	229	196	300	411	452	415	284	222	349	471	503	397							
70	193	156	265	380	421	384	245	184	316	445	479	366							
75	158	117	232	350	388	350	205	145	281	416	450	334							
80	124	77.4	200	321	358	316	166	107	246	384	420	303							
85	98.3	48.2	175	297	331	280	131	71.9	213	351	387	274							
90	85.8	28.6	169	290	319	249	101	42.3	185	317	355	258							
95	79.1	17.9	156	257	308	240	92.8	32.4	166	298	338	237							
100	67.6	16.3	132	248	285	207	84.7	29.4	157	255	317	218							
105	66.4	14.2	124	241	274	194	66.4	24.8	132	255	310	217							
110	66.2	13.0	111	229	258	189	55.5	23.0	130	250	298	210							
115	60.6	12.4	93.4	213	236	178	47.3	23.0	125	240	284	201							
120	52.6	11.6	72.8	190	214	163	36.6	20.8	118	226	267	189							
125	44.8	10.8	48.6	162	190	143	26.7	17.6	105	210	248	175							
130	38.8	9.55	25.3	130	163	120	19.9	14.9	88.1	193	228	159							
135	34.4	8.91	9.56	95.2	133	95.6	14.6	12.7	72.5	174	206	141							
140	29.0	8.51	3.86	58.0	97.9	73.9	10.7	10.8	58.0	154	182	123							
145	25.0	8.02	4.36	26.0	60.0	52.3	7.89	9.38	45.0	128	157	104							
150	23.1	7.67	5.84	7.51	26.2	32.5	6.90	8.49	35.1	99.2	131	85.2							
155	20.8	7.70	8.72	3.89	3.90	17.2	7.00	10.2	26.6	71.6	105	69.7							
160	19.0	7.81	10.9	5.91	1.67	7.12	6.64	10.5	24.6	48.9	79.7	53.0							
165	16.3	7.91	9.96	9.63	1.68	7.22	6.69	9.79	21.0	31.5	59.4	38.9							
170	13.2	7.74	8.36	10.1	1.27	7.73	7.17	9.03	16.9	18.2	41.6	23.8							
175	10.1	7.48	8.05	7.49	5.45	6.84	6.95	8.71	11.4	10.8	21.4	11.9							
180	8.02	7.90	8.22	8.13	6.55	6.94	8.01	7.88	8.21	8.15	6.72	6.90							

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 曾本
Test Date: 20230607

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