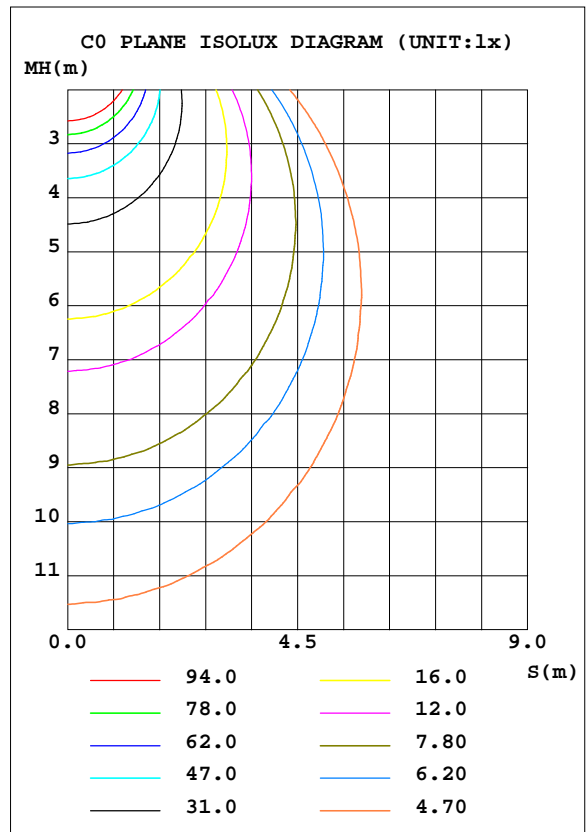
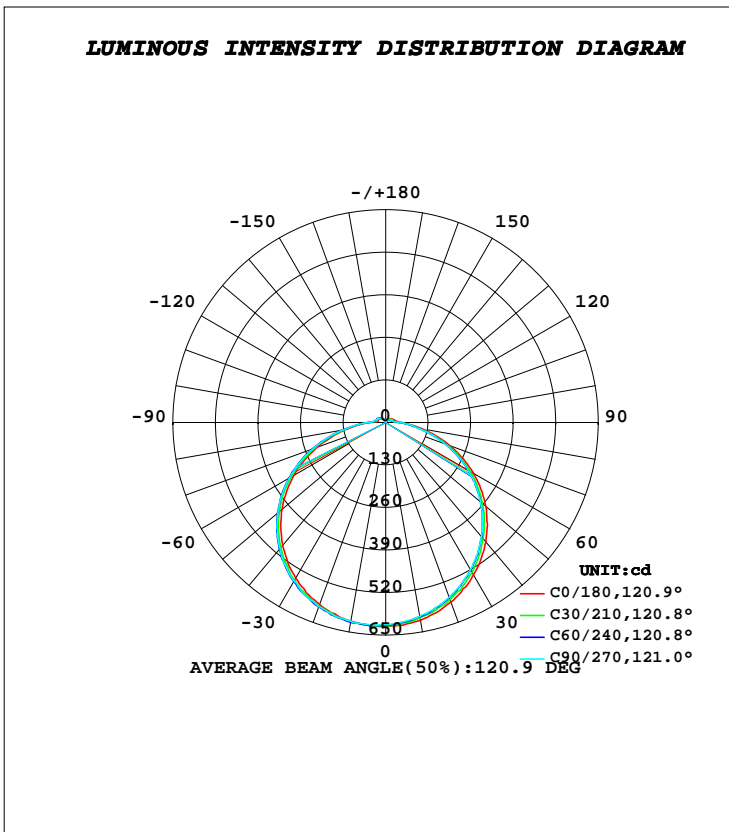


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.7V I:0.2353A P:25.13W PF:0.8924 Lamp Flux:2129.13x1 lm		
NAME: LED Flush Mount	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: ASL Global.	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	HDT16	Imax(cd)	624.5	S/MH(C0/180)	1.28
NOMINAL POWER(W)	25	LOR(%)	100.0	S/MH(C90/270)	1.25
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	2129.1	η UP, DN(C0-180)	2.9,45.0
NOMINAL FLUX(lm)	2129.13	CIE CLASS	DIRECT	η UP, DN(C180-360)	3.3,48.8
LAMPS INSIDE	1	η up(%)	6.2	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	119.7	η down(%)	93.8	CIBSE SHR MAX	1.50



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:曾本
Test Date:20230612

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	614.2	604.9	601.7	603.2	615.9	618.7	617.2	611.7	0- 10	58.67	58.67	2.76,2.76
20	583.8	572.7	568.5	575.0	591.8	598.0	599.0	589.3	10- 20	169.3	228.0	10.7,10.7
30	537.4	524.6	518.8	527.8	550.0	559.1	560.8	546.6	20- 30	260.3	488.2	22.9,22.9
40	476.6	459.8	455.9	466.5	489.7	501.5	502.4	488.1	30- 40	320.5	808.7	38,38
50	399.6	382.0	378.5	391.1	413.5	428.0	430.4	413.4	40- 50	342.5	1151	54.1,54.1
60	309.6	293.8	291.1	303.6	324.1	338.5	340.2	323.5	50- 60	323.0	1474	69.2,69.2
70	209.7	197.2	194.5	206.1	222.7	235.6	237.4	222.3	60- 70	263.4	1738	81.6,81.6
80	112.2	103.8	101.9	111.0	121.9	130.8	131.7	121.8	70- 80	174.3	1912	89.8,89.8
90	45.48	41.23	43.50	46.53	49.43	52.61	53.80	50.14	80- 90	85.17	1997	93.8,93.8
100	30.81	24.48	22.77	28.86	24.46	31.58	34.58	27.71	90-100	38.38	2035	95.6,95.6
110	26.40	21.14	19.95	25.46	25.23	28.85	28.48	24.55	100-110	27.46	2063	96.9,96.9
120	22.46	17.37	17.33	23.54	23.19	25.92	25.21	22.37	110-120	23.64	2087	98,98
130	18.31	13.94	13.91	19.72	19.26	21.03	20.81	18.52	120-130	18.28	2105	98.9,98.9
140	13.32	8.107	9.826	15.01	14.57	15.24	14.79	13.17	130-140	12.22	2117	99.4,99.4
150	7.155	5.106	5.695	10.62	10.57	10.43	9.568	9.145	140-150	6.703	2124	99.7,99.7
160	2.803	2.788	3.589	8.007	8.071	7.500	7.186	6.817	150-160	3.380	2127	99.9,99.9
170	1.469	2.549	3.929	6.480	5.646	6.335	6.141	5.829	160-170	1.527	2129	100,100
180	1.361	5.473	5.515	5.357	1.352	5.466	5.512	5.390	170-180	0.4732	2129	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

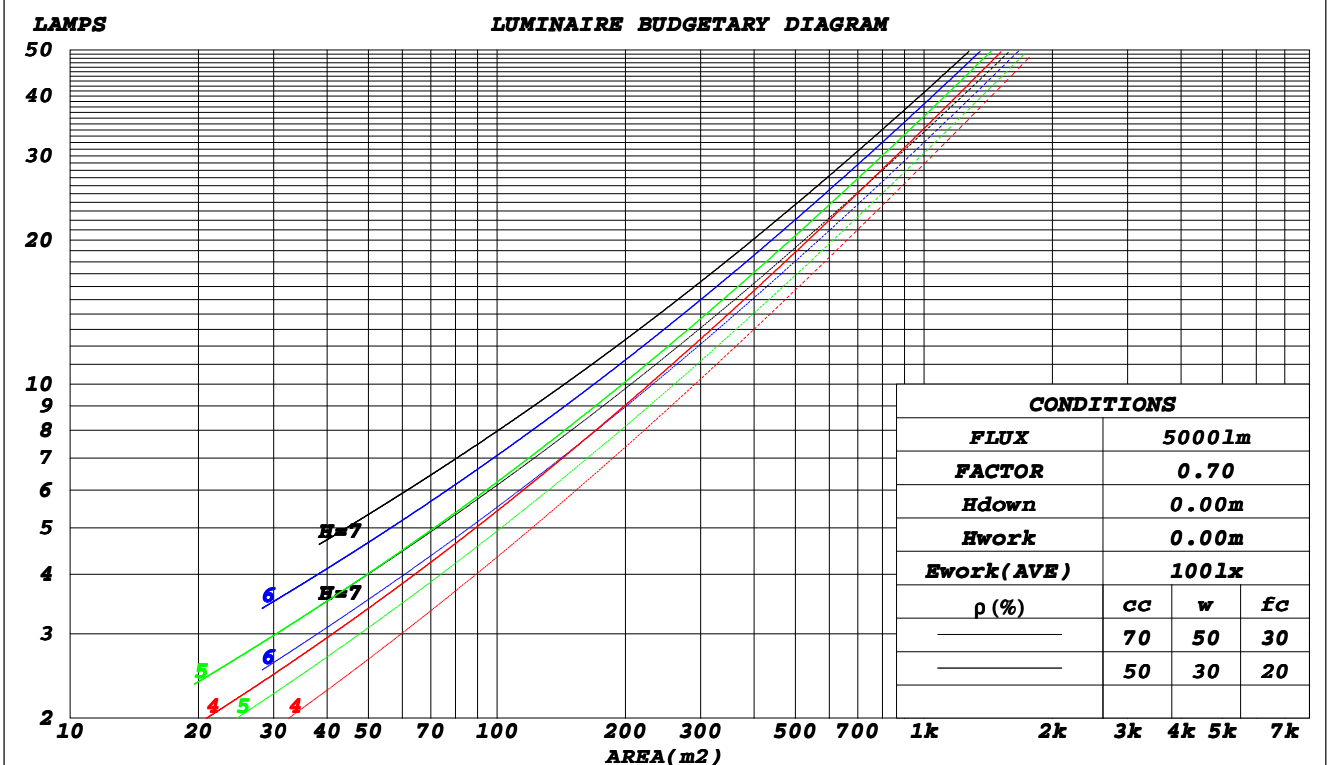
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:曾本
Test Date:20230612

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:0.2353A P:25.13W PF:0.8924 Lamp Flux:2129.13x1 lm		
NAME: 16寸超薄	TYPE:超薄	WEIGHT:
DIM.:	SPEC.:16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	1.18	1.18	1.18	1.14	1.14	1.14	1.08	1.08	1.08	1.02	1.02	1.02	.96	.96	.96	.94
1.0	1.01	.96	.92	.98	.94	.90	.92	.89	.86	.87	.85	.82	.83	.81	.78	.76
2.0	.87	.80	.74	.85	.78	.72	.80	.74	.70	.76	.71	.67	.72	.68	.65	.62
3.0	.76	.67	.60	.74	.66	.60	.70	.63	.58	.66	.61	.56	.63	.58	.54	.52
4.0	.67	.58	.51	.65	.57	.50	.62	.55	.49	.59	.52	.47	.56	.51	.46	.44
5.0	.60	.50	.43	.58	.49	.43	.55	.48	.42	.53	.46	.41	.50	.44	.40	.37
6.0	.53	.44	.38	.52	.44	.37	.50	.42	.36	.47	.41	.36	.45	.39	.35	.33
7.0	.48	.39	.33	.47	.39	.33	.45	.38	.32	.43	.36	.31	.41	.35	.31	.29
8.0	.44	.35	.29	.43	.35	.29	.41	.34	.29	.39	.33	.28	.38	.32	.27	.25
9.0	.40	.32	.26	.39	.32	.26	.38	.31	.26	.36	.30	.25	.35	.29	.25	.23
10.0	.37	.29	.24	.36	.29	.24	.35	.28	.23	.34	.27	.23	.32	.27	.22	.21



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: 曾本
 Test Date: 20230612

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:0.2353A P:25.13W PF:0.8924 Lamp Flux:2129.13x1 lm		
NAME: 16寸超薄	TYPE:超薄	WEIGHT:
DIM.:	SPEC.:16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	.341	.194	.061	.332	.189	.060	.315	.181	.058	.300	.173	.055	.285	.165	.053	
2.0	.310	.170	.052	.302	.166	.051	.287	.160	.050	.273	.153	.048	.260	.147	.046	
3.0	.282	.150	.045	.275	.147	.044	.262	.142	.043	.249	.136	.042	.237	.131	.041	
4.0	.258	.134	.039	.251	.132	.039	.239	.127	.038	.228	.122	.037	.218	.118	.036	
5.0	.237	.121	.035	.231	.119	.035	.220	.115	.034	.210	.111	.033	.200	.107	.032	
6.0	.218	.109	.031	.213	.108	.031	.203	.104	.030	.194	.101	.030	.186	.098	.029	
7.0	.202	.100	.028	.198	.099	.028	.189	.096	.028	.181	.093	.027	.173	.090	.026	
8.0	.189	.092	.026	.184	.091	.026	.176	.088	.025	.169	.085	.025	.162	.083	.024	
9.0	.176	.085	.024	.172	.084	.024	.165	.082	.023	.158	.079	.023	.152	.077	.022	
10.0	.165	.079	.022	.162	.078	.022	.155	.076	.021	.149	.074	.021	.143	.072	.021	

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	.238	.238	.238	.203	.203	.203	.139	.139	.139	.080	.080	.080	.025	.025	.025	
1.0	.230	.204	.180	.197	.175	.155	.135	.120	.107	.078	.070	.062	.025	.022	.020	
2.0	.223	.180	.144	.191	.155	.124	.131	.107	.087	.075	.062	.051	.024	.020	.017	
3.0	.215	.163	.121	.184	.140	.105	.127	.097	.073	.073	.057	.043	.023	.018	.014	
4.0	.207	.150	.105	.178	.129	.092	.122	.090	.065	.071	.053	.038	.023	.017	.013	
5.0	.200	.139	.095	.172	.121	.082	.118	.084	.058	.069	.049	.035	.022	.016	.011	
6.0	.193	.131	.087	.166	.114	.076	.114	.080	.054	.066	.047	.032	.021	.015	.011	
7.0	.186	.124	.082	.160	.108	.071	.110	.076	.050	.064	.045	.030	.021	.015	.010	
8.0	.179	.119	.077	.154	.103	.067	.107	.072	.048	.062	.043	.028	.020	.014	.009	
9.0	.173	.114	.074	.149	.099	.065	.103	.069	.046	.060	.041	.027	.019	.013	.009	
10.0	.167	.110	.071	.144	.095	.062	.100	.067	.044	.058	.040	.026	.019	.013	.009	

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: 曾本
 Test Date: 20230612

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:0.2353A P:25.13W PF:0.8924 Lamp Flux:2129.13x1 lm										
NAME: 16寸超薄					TYPE:超薄			WEIGHT:		
DIM.:					SPEC.:16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	18.7	20.2	19.1	20.5	20.8	18.4	19.9	18.8	20.2	20.6
3H	20.5	21.8	20.8	22.2	22.5	20.1	21.5	20.5	21.9	22.2
4H	21.2	22.5	21.7	22.9	23.3	20.9	22.2	21.3	22.6	22.9
6H	21.9	23.2	22.4	23.5	24.0	21.5	22.8	22.0	23.1	23.6
8H	22.2	23.4	22.7	23.8	24.2	21.8	23.0	22.2	23.4	23.8
12H	22.5	23.7	23.0	24.1	24.5	22.1	23.2	22.5	23.6	24.1
4H 2H	19.3	20.6	19.7	21.0	21.4	19.1	20.4	19.5	20.8	21.2
3H	21.2	22.4	21.7	22.8	23.2	21.0	22.1	21.4	22.5	23.0
4H	22.2	23.2	22.6	23.6	24.1	21.9	22.9	22.3	23.3	23.8
6H	23.0	23.9	23.5	24.4	24.9	22.7	23.6	23.1	24.0	24.6
8H	23.4	24.3	23.9	24.8	25.3	23.0	23.9	23.5	24.4	24.9
12H	23.8	24.6	24.3	25.1	25.6	23.4	24.2	23.9	24.7	25.2
8H 4H	22.5	23.3	23.0	23.8	24.3	22.2	23.1	22.7	23.6	24.1
6H	23.5	24.2	24.0	24.8	25.3	23.2	23.9	23.7	24.4	25.0
8H	24.0	24.7	24.6	25.2	25.8	23.7	24.3	24.2	24.9	25.4
12H	24.6	25.1	25.1	25.7	26.3	24.2	24.8	24.8	25.3	25.9
12H 4H	22.5	23.3	23.0	23.8	24.3	22.2	23.0	22.8	23.5	24.1
6H	23.6	24.3	24.2	24.8	25.4	23.3	24.0	23.9	24.5	25.1
8H	24.2	24.8	24.8	25.3	25.9	23.9	24.4	24.4	25.0	25.6
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.1 / - 0.3					+ 0.1 / - 0.3				

CIE Pub.117 Corrected 2129 lm Total Lamp Luminous Flux.(8log(F/F0) = 2.6)

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:曾本
Test Date:20230612

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:0.2353A P:25.13W PF:0.8924 Lamp Flux:2129.13x1 lm		
NAME: 16寸超薄	TYPE:超薄	WEIGHT:
DIM.:	SPEC.:16寸	SERIAL No.:
MFR.: WORBEST	SUR.:	PROTECTION ANGLE:

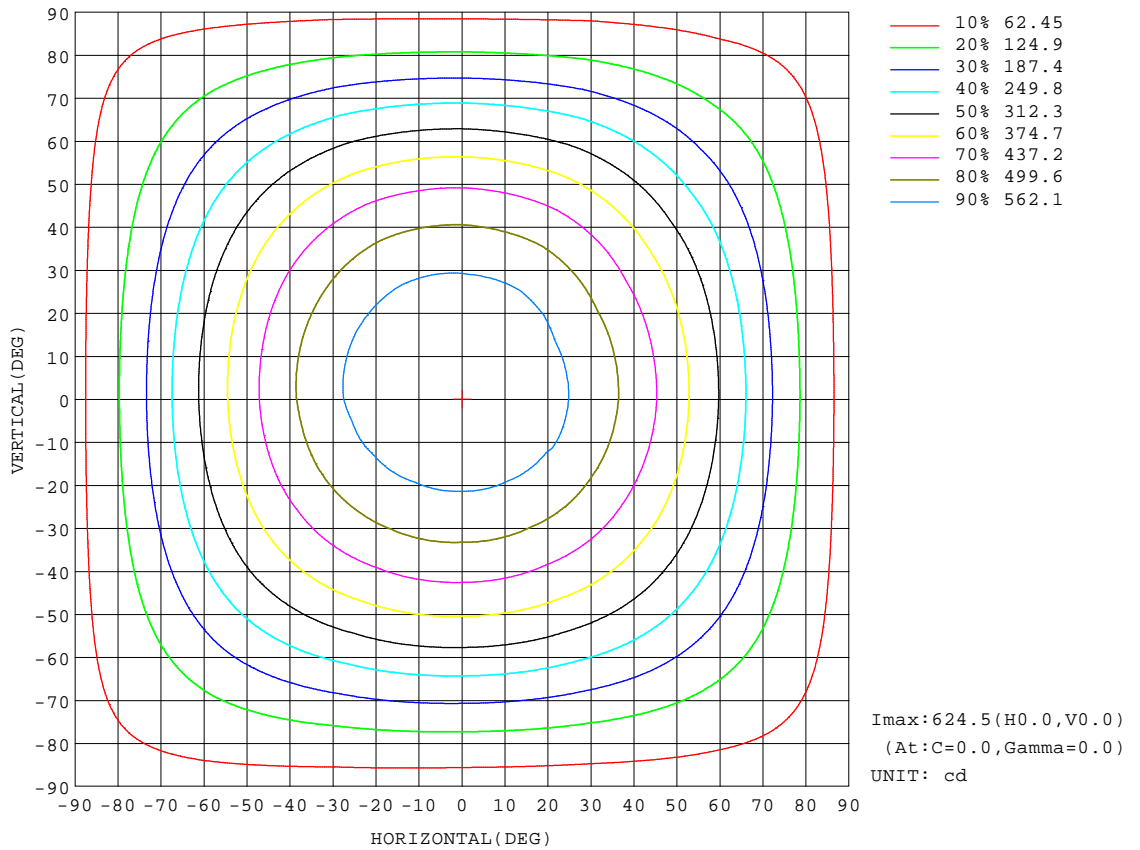
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	54	42	34	53	41	34	51	41	34	27
0.80	63	51	43	62	50	43	60	49	43	35
1.00	71	60	52	70	59	51	67	60	51	43
1.25	79	67	59	77	66	59	74	64	58	50
1.50	84	73	65	82	72	64	78	69	63	54
2.00	91	81	74	88	80	73	84	77	71	62
2.50	95	86	79	92	84	78	88	81	76	66
3.00	98	91	84	96	89	83	91	85	80	70
4.00	103	96	91	100	94	89	95	90	86	75
5.00	105	100	95	102	97	93	97	93	89	78
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: 20230612

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:0.2353A P:25.13W PF:0.8924 Lamp Flux:2129.13x1 lm		
NAME: 16寸超薄	TYPE:超薄	WEIGHT:
DIM.:	SPEC.:16寸	SERIAL No.:
MFR.: WORBEST	SUR.:	PROTECTION ANGLE:

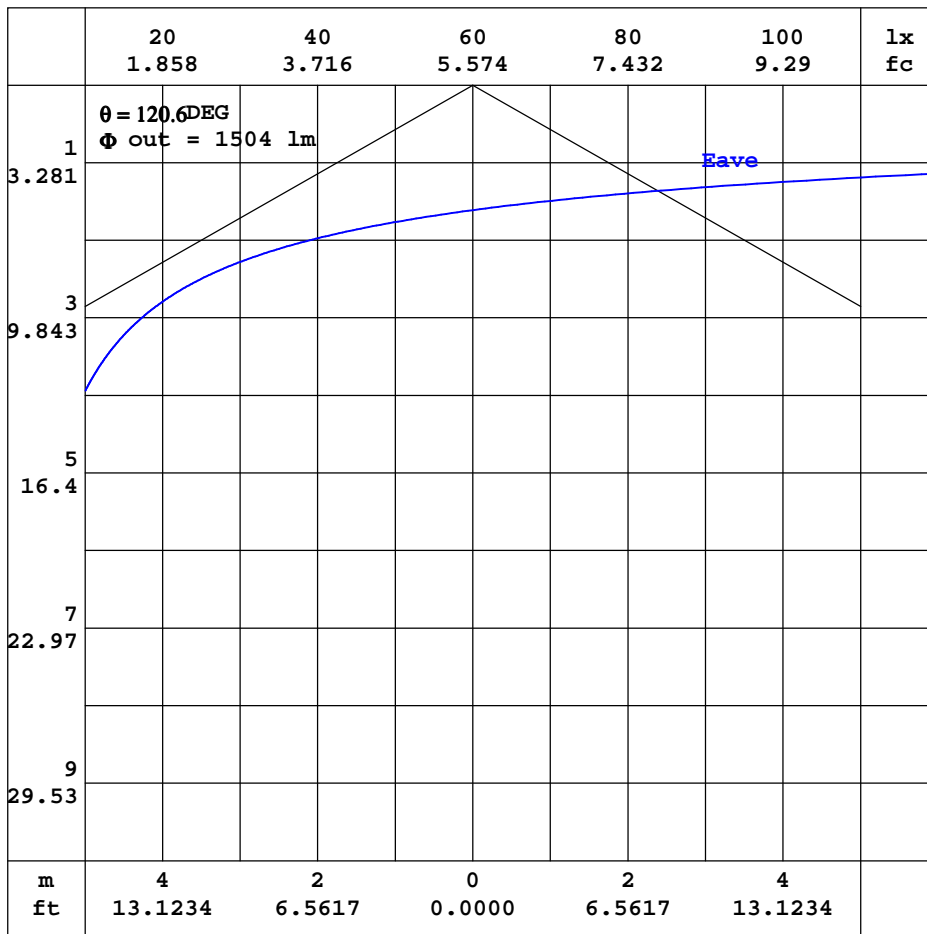


C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 曾本
Test Date: 20230612

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:0.2353A P:25.13W PF:0.8924 Lamp Flux:2129.13x1 lm		
NAME: 16寸超薄	TYPE:超薄	WEIGHT:
DIM.:	SPEC.:16寸	SERIAL No.:
MFR.: WORBEST	SUR.:	PROTECTION ANGLE:



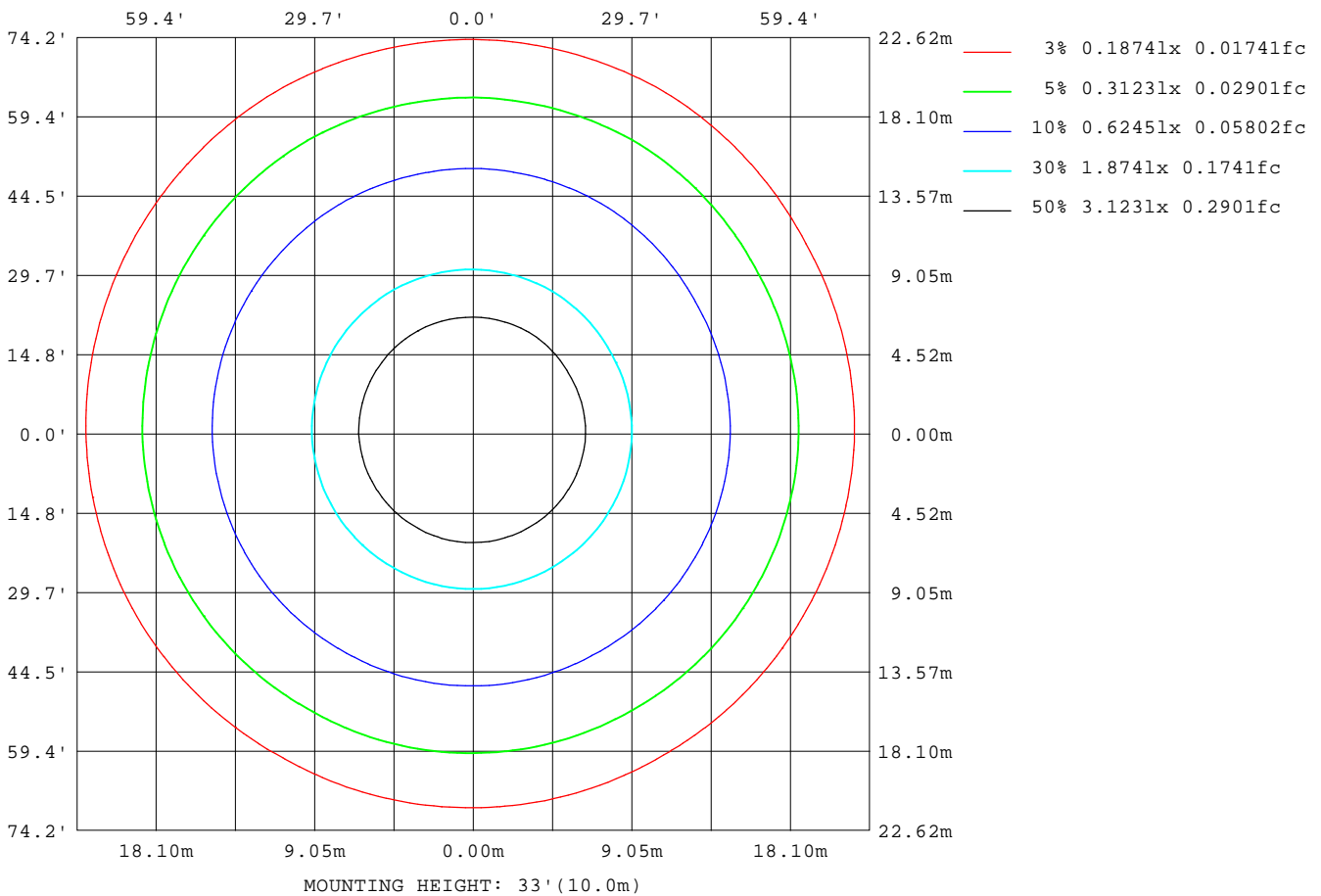
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 曾本
Test Date: 20230612

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

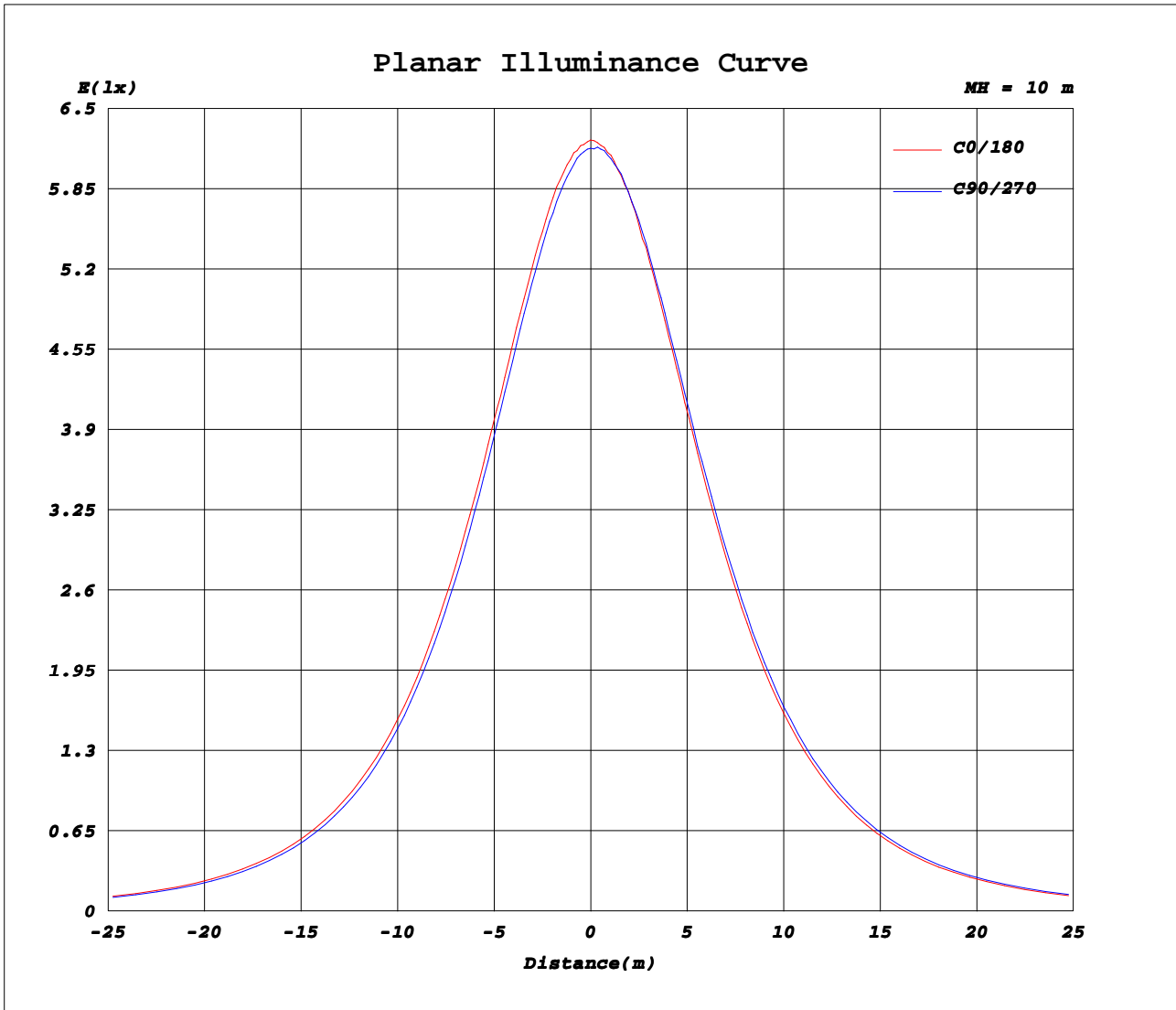
Test:U:119.7V I:0.2353A P:25.13W PF:0.8924 Lamp Flux:2129.13x1 lm		
NAME: 16寸超薄	TYPE:超薄	WEIGHT:
DIM.:	SPEC.:16寸	SERIAL No.:
MFR.: WORBEST	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 曾本
Test Date: 20230612

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: 20230612

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:0.2353A P:25.13W PF:0.8924 Lamp Flux:2129.13x1 lm		
NAME: 16寸超薄	TYPE:超薄	WEIGHT:
DIM.:	SPEC.:16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	625	620	620	618	617	616	625	620	620	618	617	616							
5	621	616	612	612	612	612	622	621	622	620	617	615							
10	614	607	603	602	602	604	616	618	619	617	615	609							
15	601	594	587	587	588	594	604	610	611	610	606	598							
20	584	577	569	568	571	579	592	597	599	599	594	585							
25	561	554	547	546	549	559	574	580	582	582	576	563							
30	537	528	521	519	523	533	550	557	561	561	553	540							
35	509	497	491	490	493	505	522	529	536	535	527	512							
40	477	463	457	456	460	473	490	497	506	502	496	480							
45	440	426	419	419	424	437	453	463	471	468	461	443							
50	400	386	378	379	384	398	414	424	432	430	423	404							
55	355	344	335	336	341	356	371	382	388	388	380	361							
60	310	298	290	291	296	312	324	335	342	340	333	314							
65	260	250	242	243	248	263	274	284	293	291	283	265							
70	210	200	194	194	199	213	223	232	239	237	231	214							
75	159	151	146	146	151	163	171	179	185	183	178	163							
80	112	106	101	102	106	116	122	128	133	132	128	115							
85	72.2	67.1	65.0	65.9	69.1	75.3	79.7	84.2	87.3	86.3	84.6	74.4							
90	45.5	39.8	42.7	43.5	45.5	47.6	49.4	51.2	54.0	53.8	53.0	47.3							
95	35.5	28.3	29.6	29.0	32.5	35.4	28.6	34.1	38.5	39.3	36.5	35.0							
100	30.8	26.0	23.0	22.8	28.3	29.4	24.5	29.5	33.6	34.6	29.0	26.5							
105	27.6	24.3	19.7	20.6	25.9	25.5	24.2	27.6	30.6	30.6	26.6	23.0							
110	26.4	23.8	18.5	19.9	25.9	25.0	25.2	28.0	29.6	28.5	25.9	23.2							
115	24.5	22.4	16.4	18.5	25.0	24.3	24.7	27.1	28.8	27.1	24.7	22.8							
120	22.5	20.5	14.3	17.3	23.7	23.3	23.2	25.3	26.6	25.2	23.3	21.4							
125	20.5	18.1	13.5	15.8	22.0	21.6	21.4	23.1	24.0	23.1	21.5	19.9							
130	18.3	15.6	12.3	13.9	20.0	19.5	19.3	20.7	21.4	20.8	19.2	17.9							
135	15.9	12.3	10.5	12.0	17.6	17.2	17.0	18.1	18.5	18.0	16.4	15.5							
140	13.3	7.80	8.41	9.83	15.0	15.0	14.6	15.1	15.4	14.8	13.4	13.0							
145	10.2	6.25	6.27	7.45	12.7	12.7	12.1	12.3	12.4	11.7	10.7	10.5							
150	7.15	5.37	4.84	5.70	10.5	10.8	10.6	10.5	10.3	9.57	9.19	9.10							
155	4.48	3.97	3.73	4.62	9.19	9.48	9.29	8.99	8.72	8.20	7.95	7.73							
160	2.80	2.85	2.73	3.59	7.87	8.14	8.07	7.71	7.29	7.19	6.83	6.80							
165	1.88	2.04	2.21	3.37	7.21	7.36	6.82	6.67	6.48	6.56	6.33	6.30							
170	1.47	1.90	3.19	3.93	6.43	6.53	5.65	6.42	6.25	6.14	5.90	5.76							
175	1.44	3.22	4.41	5.36	6.09	6.18	3.43	6.07	5.87	5.59	5.46	5.49							
180	1.36	5.43	5.52	5.51	5.28	5.43	1.35	5.41	5.52	5.51	5.33	5.45							

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 曾本
Test Date: 20230612

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