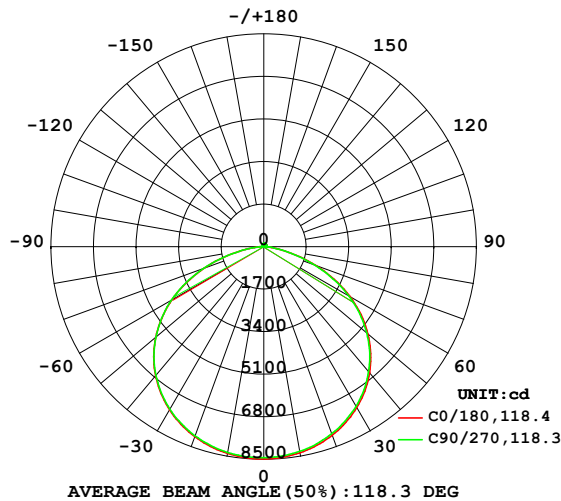


LUMINAIRE PHOTOMETRIC TEST REPORT

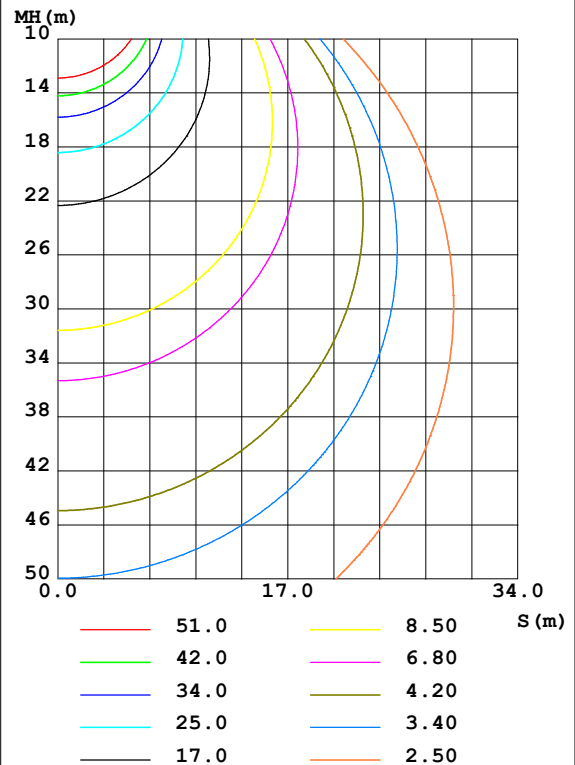
Test:U:218.24V I:0.9204A P:196.64W PF:0.9790 Freq:49.99Hz Lamp Flux:25902.9x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 131.72 lm/W			
MODEL		I _{max} (cd)	8483	S/MH (C0/180)	1.32
NOMINAL POWER(W)	200W	LOR(%)	100.0	S/MH (C90/270)	1.32
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	25903	η UP,DN(C0-180)	1.2,47.6
NOMINAL FLUX(lm)	25902.9	CIE CLASS	DIRECT	η UP,DN(C180-360)	1.1,50.2
LAMPS INSIDE	1	η up (%)	2.3	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	220	η down (%)	97.7	CIBSE SHR MAX	1.50

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-03-01

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.120m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum, lamp
10	8359	8306	8391	8347					0- 10	802.3	802.3	3.1,3.1
20	8013	7957	8078	8040					10- 20	2321	3123	12.1,12.1
30	7431	7372	7533	7504					20- 30	3584	6707	25.9,25.9
40	6584	6521	6729	6710					30- 40	4431	11139	43,43
50	5436	5374	5636	5630					40- 50	4713	15852	61.2,61.2
60	3975	3913	4245	4252					50- 60	4324	20176	77.9,77.9
70	2229	2181	2540	2564					60- 70	3214	23390	90.3,90.3
80	632.2	607.4	844.3	870.9					70- 80	1598	24988	96.5,96.5
90	98.62	97.78	68.27	69.10					80- 90	331.2	25319	97.7,97.7
100	88.42	88.13	59.16	58.60					90-100	81.55	25401	98.1,98.1
110	88.09	88.13	70.28	69.48					100-110	80.13	25481	98.4,98.4
120	92.86	93.02	83.86	82.99					110-120	82.81	25564	98.7,98.7
130	99.51	99.69	97.63	96.64					120-130	83.50	25647	99,99
140	108.1	108.3	109.8	108.8					130-140	80.14	25727	99.3,99.3
150	116.6	116.7	119.3	118.3					140-150	71.12	25798	99.6,99.6
160	124.0	123.9	126.1	125.1					150-160	56.09	25854	99.8,99.8
170	129.6	129.7	130.7	129.6					160-170	36.08	25890	100,100
180	132.2	132.2	132.8	131.7					170-180	12.50	25903	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 13500 lm

%lum = 52.1%

%lamp = 52.1%

Conical surface Flux(120deg): 20176 lm

%lum = 77.9%

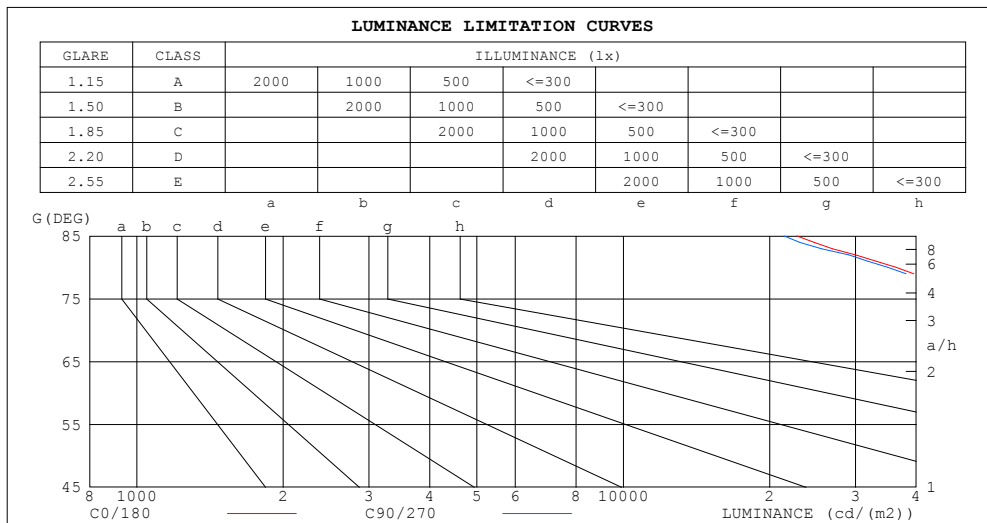
%lamp = 77.9%

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-03-01

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.120m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:218.24V I:0.9204A P:196.64W PF:0.9790 Freq:49.99Hz Lamp Flux:25902.9x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	22736	21425
80	36406	34978
75	52048	50157
70	65182	63774
65	73580	72309
60	79494	78266
55	82741	81675
50	84566	83607
45	85530	84656

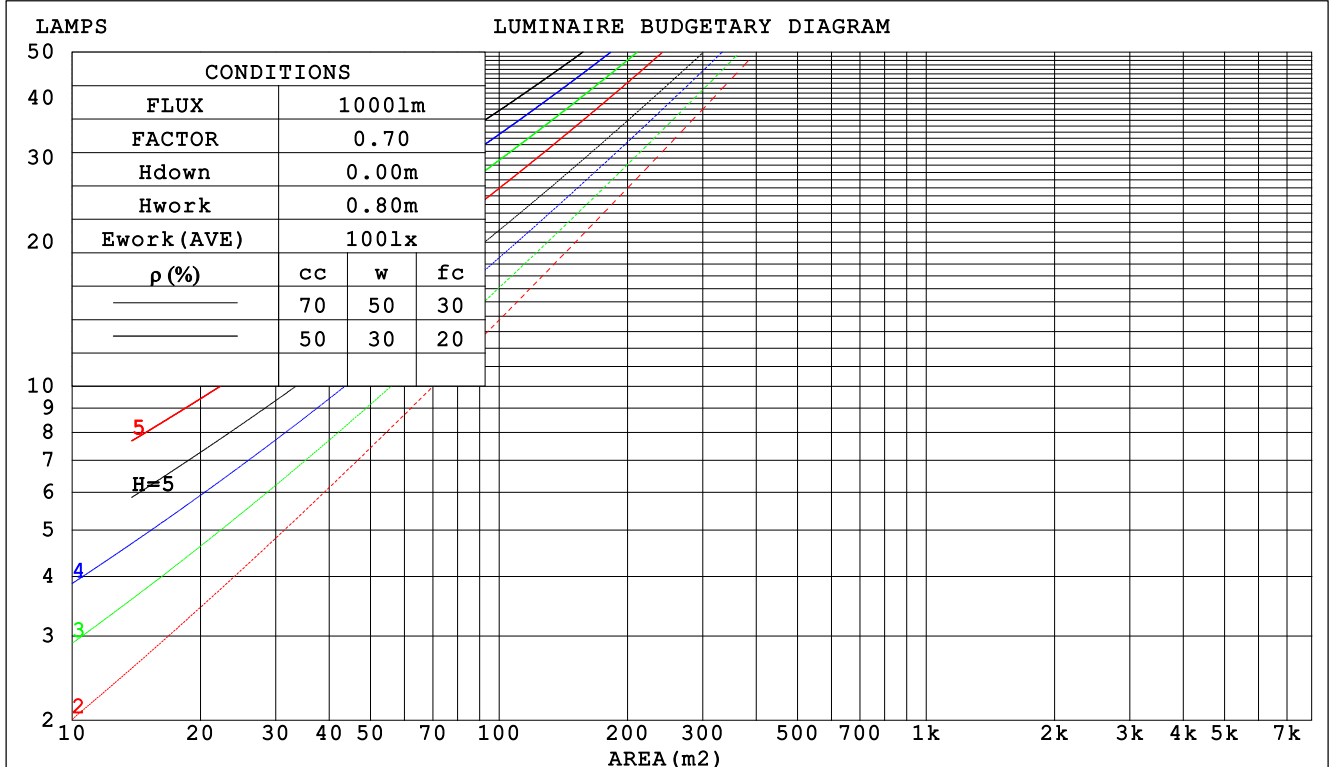
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-03-01

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.120m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:218.24V I:0.9204A P:196.64W PF:0.9790 Freq:49.99Hz Lamp Flux:25902.9x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding 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	Coefficients of Utilization(CU)															
RCR:Room Cavity Ratio																
0.0	1.19	1.19	1.19	1.15	1.15	1.15	1.10	1.10	1.10	1.05	1.05	1.05	.00	.00	.00	.98
1.0	1.04	.00	.96	1.01	.97	.94	.97	.93	.91	.92	.90	.87	.88	.86	.84	.82
2.0	.90	.84	.78	.88	.82	.77	.84	.79	.75	.81	.76	.73	.77	.74	.71	.68
3.0	.79	.71	.65	.77	.70	.64	.74	.68	.62	.71	.66	.61	.68	.64	.60	.57
4.0	.70	.61	.54	.69	.60	.54	.66	.59	.53	.63	.57	.52	.61	.55	.51	.49
5.0	.62	.53	.47	.61	.53	.46	.59	.51	.46	.57	.50	.45	.54	.49	.44	.42
6.0	.56	.47	.41	.55	.47	.40	.53	.45	.40	.51	.44	.39	.49	.43	.39	.37
7.0	.51	.42	.36	.50	.41	.36	.48	.41	.35	.46	.40	.35	.45	.39	.34	.32
8.0	.46	.38	.32	.45	.37	.32	.44	.37	.31	.42	.36	.31	.41	.35	.31	.29
9.0	.42	.34	.28	.42	.34	.28	.40	.33	.28	.39	.33	.28	.38	.32	.28	.26
10.0	.39	.31	.26	.38	.31	.26	.37	.30	.25	.36	.30	.25	.35	.29	.25	.23



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-03-01

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.120m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:218.24V I:0.9204A P:196.64W PF:0.9790 Freq:49.99Hz Lamp Flux:25902.9x1 lm					
NAME:		TYPE:		WEIGHT:	
SPEC.:		DIM.:		SERIAL No.:	
MFR.: EVERFINE		SUR.:		Shielding Angle:	

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients (WEC)									
0.0																
1.0	.302	.172	.054	.294	.168	.053	.280	.160	.051	.266	.154	.049	.254	.147	.047	
2.0	.287	.158	.048	.281	.155	.048	.268	.149	.046	.256	.144	.045	.245	.139	.044	
3.0	.268	.142	.043	.261	.140	.042	.250	.135	.041	.239	.131	.040	.230	.127	.039	
4.0	.248	.129	.038	.242	.127	.037	.232	.123	.037	.223	.120	.036	.214	.116	.035	
5.0	.230	.117	.034	.225	.115	.034	.216	.112	.033	.207	.109	.033	.199	.106	.032	
6.0	.213	.107	.031	.209	.106	.030	.201	.103	.030	.193	.100	.029	.186	.098	.029	
7.0	.199	.098	.028	.195	.097	.028	.187	.095	.027	.181	.093	.027	.174	.090	.027	
8.0	.186	.091	.025	.182	.090	.025	.176	.088	.025	.169	.086	.025	.163	.084	.024	
9.0	.174	.084	.023	.171	.083	.023	.165	.082	.023	.159	.080	.023	.154	.078	.023	
10.0	.164	.078	.022	.161	.078	.022	.155	.076	.021	.150	.075	.021	.145	.073	.021	

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.208	.208	.208	.177	.177	.177	.121	.121	.121	.070	.070	.070	.022	.022	.022	
1.0	.197	.174	.152	.169	.149	.131	.115	.102	.091	.066	.059	.053	.021	.019	.017	
2.0	.189	.149	.116	.162	.129	.100	.111	.089	.070	.064	.052	.041	.021	.017	.013	
3.0	.182	.132	.092	.156	.114	.080	.107	.079	.056	.062	.046	.033	.020	.015	.011	
4.0	.174	.119	.076	.149	.102	.066	.103	.071	.047	.059	.042	.028	.019	.014	.009	
5.0	.167	.108	.065	.143	.094	.057	.099	.065	.040	.057	.038	.024	.018	.013	.008	
6.0	.160	.100	.057	.137	.087	.050	.095	.061	.035	.055	.036	.021	.018	.012	.007	
7.0	.153	.093	.051	.132	.081	.044	.091	.057	.031	.053	.033	.019	.017	.011	.006	
8.0	.147	.087	.047	.126	.076	.041	.087	.053	.029	.051	.031	.017	.016	.010	.006	
9.0	.141	.082	.043	.121	.072	.038	.084	.050	.027	.049	.030	.016	.016	.010	.005	
10.0	.135	.078	.040	.116	.068	.035	.081	.048	.025	.047	.028	.015	.015	.009	.005	

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-03-01

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.120m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:218.24V I:0.9204A P:196.64W PF:0.9790 Freq:49.99Hz Lamp Flux:25902.9x1 lm											
NAME:					TYPE:			WEIGHT:			
SPEC.:					DIM.:			SERIAL No.:			
MFR.: EVERFINE					SUR.:			Shielding 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	2H	28.1	29.6	28.4	29.9	30.1	28.1	29.6	28.4	29.8	30.0
	3H	29.4	30.8	29.8	31.1	31.4	29.4	30.7	29.7	31.0	31.3
	4H	29.8	31.1	30.2	31.4	31.7	29.7	31.0	30.1	31.3	31.6
	6H	30.0	31.2	30.3	31.5	31.8	29.9	31.1	30.2	31.4	31.7
	8H	30.0	31.2	30.4	31.5	31.8	29.9	31.1	30.3	31.4	31.7
	12H	30.0	31.1	30.4	31.4	31.8	29.9	31.0	30.3	31.3	31.7
4H	2H	28.7	30.0	29.0	30.3	30.6	28.6	29.9	29.0	30.2	30.5
	3H	30.1	31.3	30.5	31.6	31.9	30.1	31.2	30.4	31.5	31.9
	4H	30.6	31.6	31.0	32.0	32.4	30.5	31.6	30.9	31.9	32.3
	6H	30.8	31.8	31.3	32.1	32.6	30.7	31.7	31.2	32.1	32.5
	8H	30.9	31.7	31.3	32.1	32.6	30.8	31.6	31.2	32.0	32.5
	12H	30.9	31.7	31.3	32.1	32.5	30.8	31.6	31.2	32.0	32.4
8H	4H	30.7	31.6	31.2	32.0	32.4	30.7	31.5	31.1	31.9	32.4
	6H	31.1	31.8	31.5	32.2	32.7	31.0	31.7	31.4	32.1	32.6
	8H	31.1	31.7	31.6	32.2	32.7	31.0	31.7	31.5	32.1	32.6
	12H	31.2	31.7	31.7	32.2	32.7	31.1	31.6	31.6	32.1	32.6
12H	4H	30.7	31.5	31.2	31.9	32.4	30.6	31.4	31.1	31.8	32.3
	6H	31.1	31.7	31.5	32.1	32.6	31.0	31.6	31.5	32.1	32.6
	8H	31.1	31.7	31.7	32.2	32.7	31.1	31.6	31.6	32.1	32.6
Variations with the observer position at spacings:											
S = 1.0H		+ 0.2 / - 0.2					+ 0.2 / - 0.3				
1.5H		+ 0.2 / - 0.4					+ 0.2 / - 0.4				
2.0H		+ 0.3 / - 0.3					+ 0.3 / - 0.3				

CIE Pub.117, 25903 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 11.3$)
Area: 0.1 m²

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-03-01

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.120m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:218.24V I:0.9204A P:196.64W PF:0.9790 Freq:49.99Hz Lamp Flux:25902.9x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

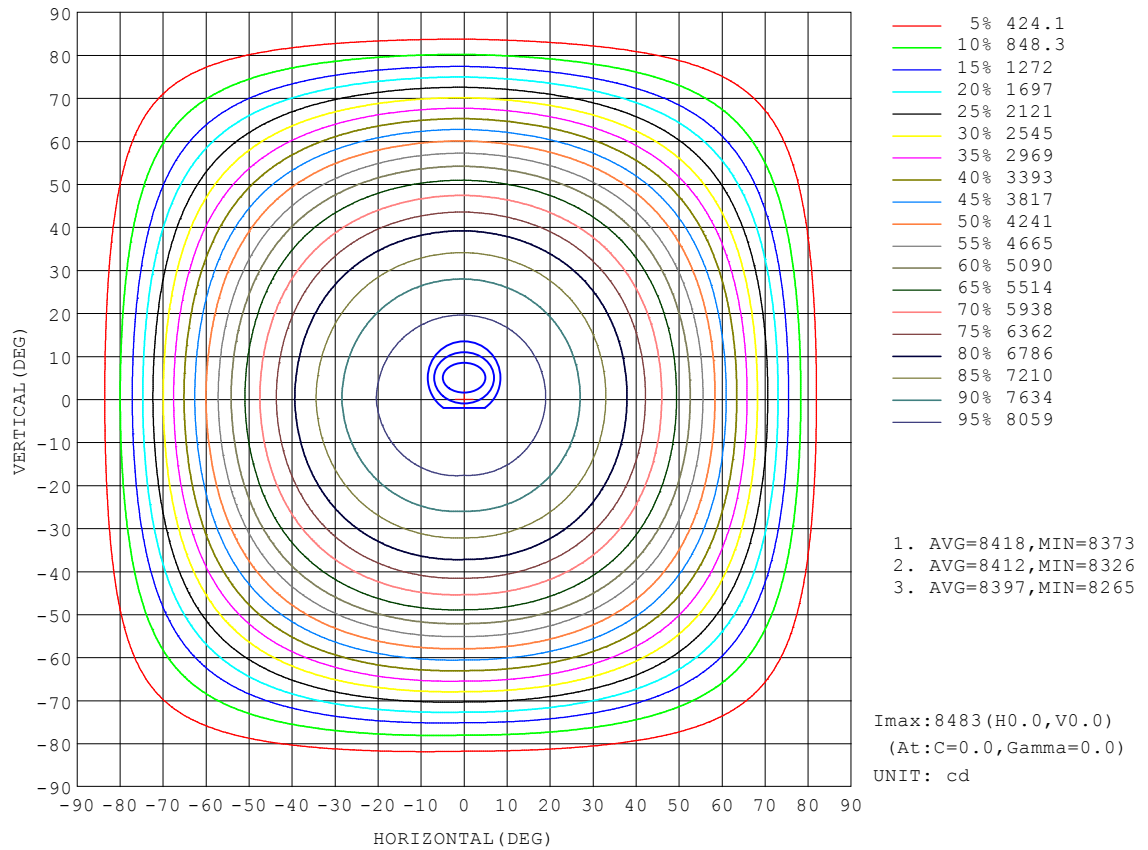
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	56	45	38	56	44	38	54	44	37	31
0.80	67	55	47	65	54	47	63	53	47	40
1.00	75	64	57	74	63	56	71	65	56	48
1.25	82	72	65	81	71	64	78	69	63	56
1.50	87	78	70	86	77	70	82	75	69	61
2.00	94	86	79	92	85	79	89	82	77	69
2.50	98	91	85	96	89	84	92	86	81	73
3.00	102	95	89	99	93	88	95	90	86	77
4.00	106	100	96	103	98	94	99	95	91	82
5.00	108	103	99	106	101	98	101	97	94	84
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-03-01

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.120m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:218.24V I:0.9204A P:196.64W PF:0.9790 Freq:49.99Hz Lamp Flux:25902.9x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

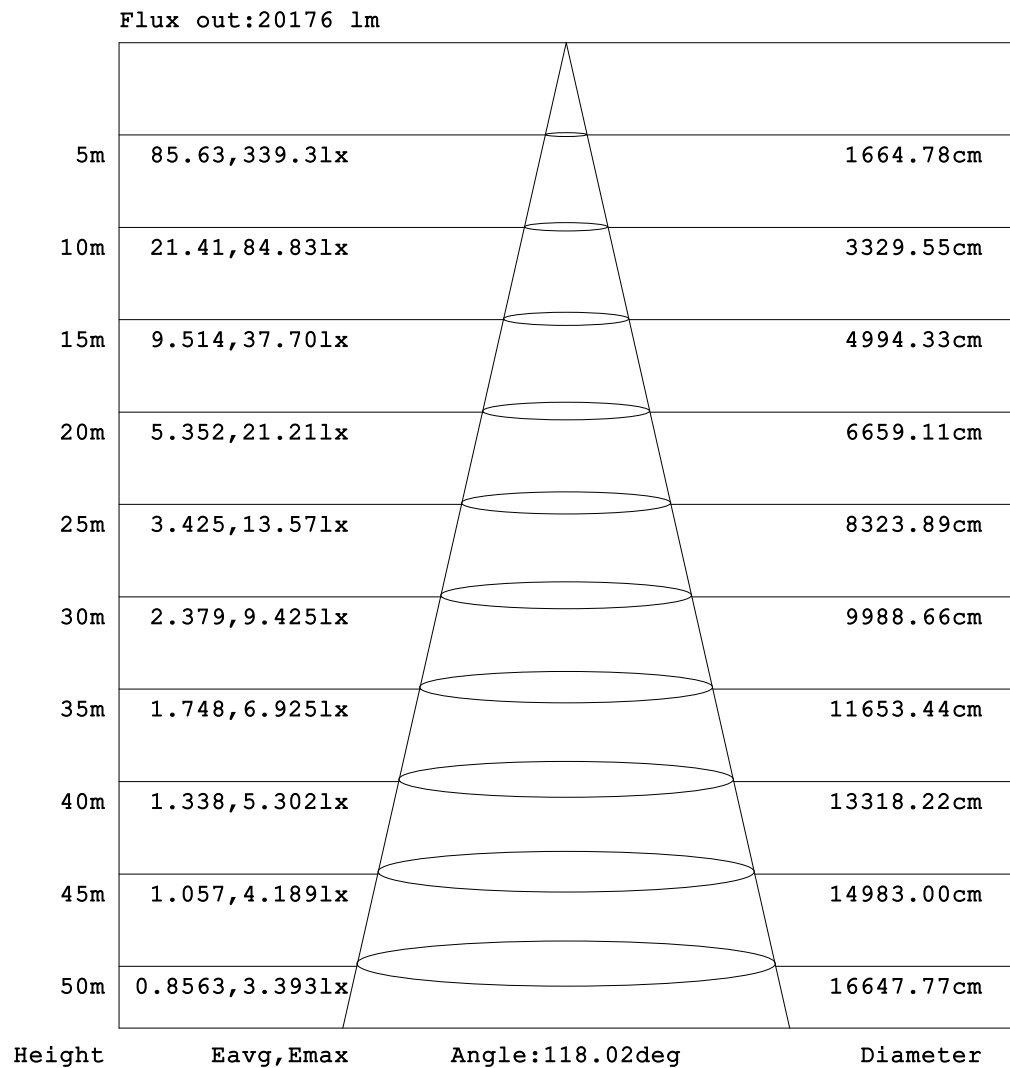


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-03-01

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.120m [K=1.0000]
Remarks:

AAI Figure

Test:U:218.24V I:0.9204A P:196.64W PF:0.9790 Freq:49.99Hz Lamp Flux:25902.9x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



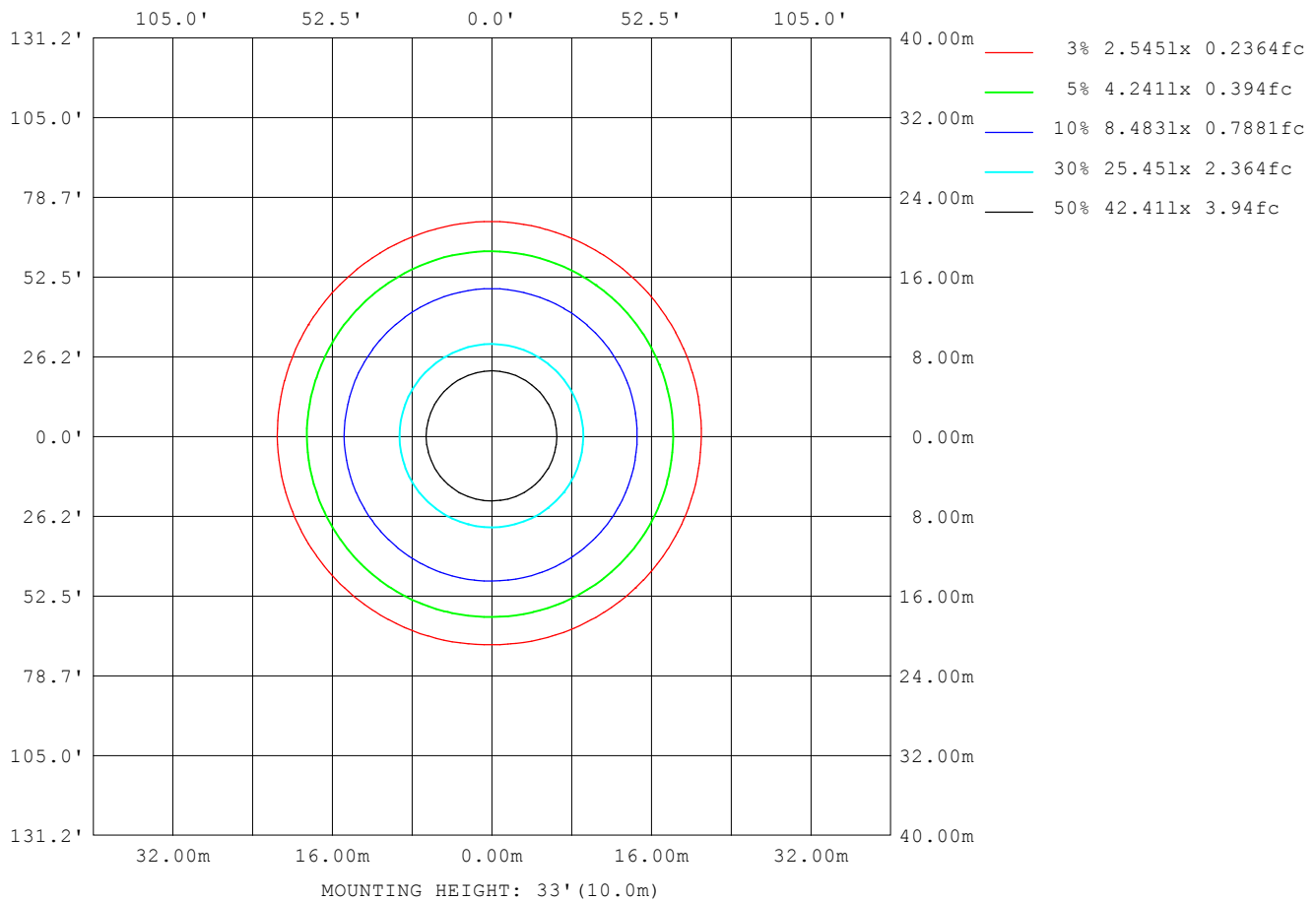
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Jason
 Test Date:2024-03-01

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
 Humidity:65.0%
 Test Distance:9.120m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:218.24V I:0.9204A P:196.64W PF:0.9790 Freq:49.99Hz Lamp Flux:25902.9x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-03-01

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.120m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:218.24V I:0.9204A P:196.64W PF:0.9790 Freq:49.99Hz Lamp Flux:25902.9x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

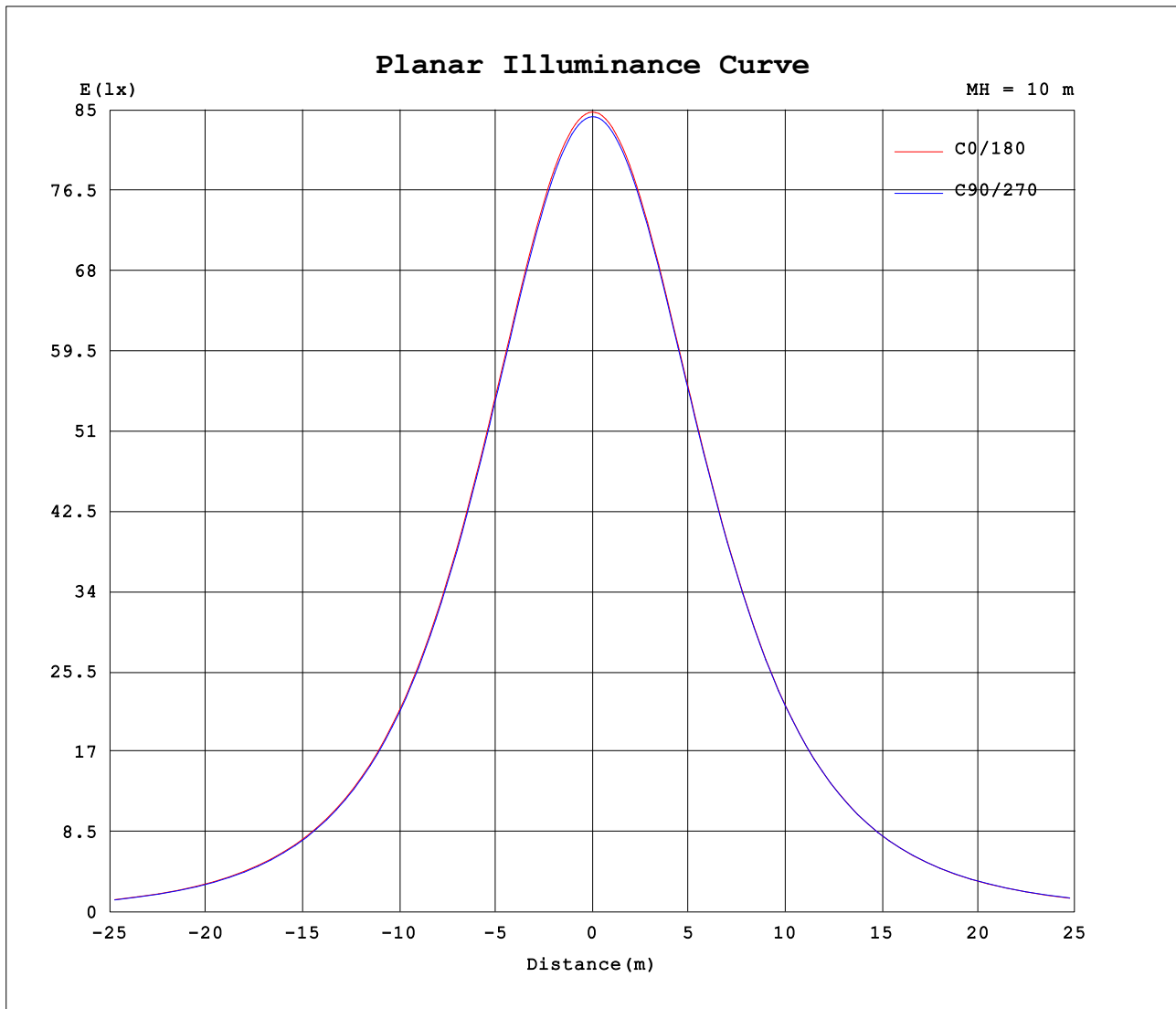
AvgL	cd/m2
L_0~180 (65) av	77231
L_0~180 (75) av	57871
L_0~180 (85) av	27991
L_90~270 (65) av	76811
L_90~270 (75) av	57595
L_90~270 (85) av	27999
L_45 (65) av	77197
L_45 (75) av	58062
L_45 (85) av	28324

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-03-01

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.120m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Jason
Test Date: 2024-03-01

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity: 65.0%
Test Distance: 9.120m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:218.24V I:0.9204A P:196.64W PF:0.9790 Freq:49.99Hz Lamp Flux:25902.9x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	90	180	270														
0	8483	8432	8483	8432														
5	8449	8398	8464	8418														
10	8359	8306	8391	8347														
15	8215	8161	8263	8223														
20	8013	7957	8078	8040														
25	7753	7694	7834	7802														
30	7431	7372	7533	7504														
35	7044	6983	7164	7139														
40	6584	6521	6729	6710														
45	6048	5986	6219	6207														
50	5436	5374	5636	5630														
55	4746	4685	4976	4978														
60	3975	3913	4245	4252														
65	3110	3056	3418	3436														
70	2229	2181	2540	2564														
75	1347	1298	1649	1683														
80	632	607	844	871														
85	198	187	290	301														
90	98.6	97.8	68.3	69.1														
95	91.8	91.4	55.8	55.3														
100	88.4	88.1	59.2	58.6														
105	87.3	87.2	64.1	63.4														
110	88.1	88.1	70.3	69.5														
115	90.2	90.3	77.0	76.2														
120	92.9	93.0	83.9	83.0														
125	95.9	96.0	90.8	89.9														
130	99.5	99.7	97.6	96.6														
135	104	104	104	103														
140	108	108	110	109														
145	112	113	115	114														
150	117	117	119	118														
155	120	121	123	122														
160	124	124	126	125														
165	127	127	129	128														
170	130	130	131	130														
175	131	131	132	131														
180	132	132	133	132														

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