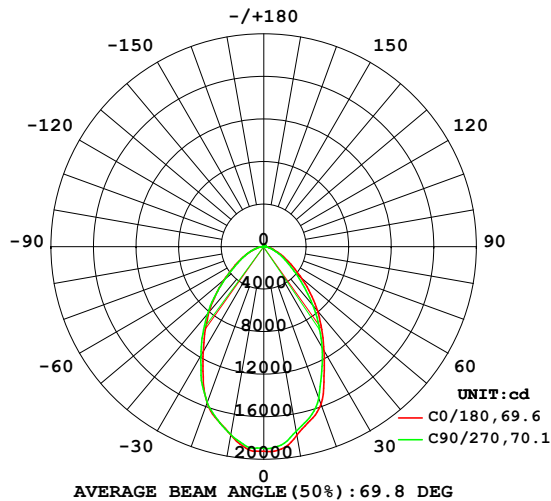


LUMINAIRE PHOTOMETRIC TEST REPORT

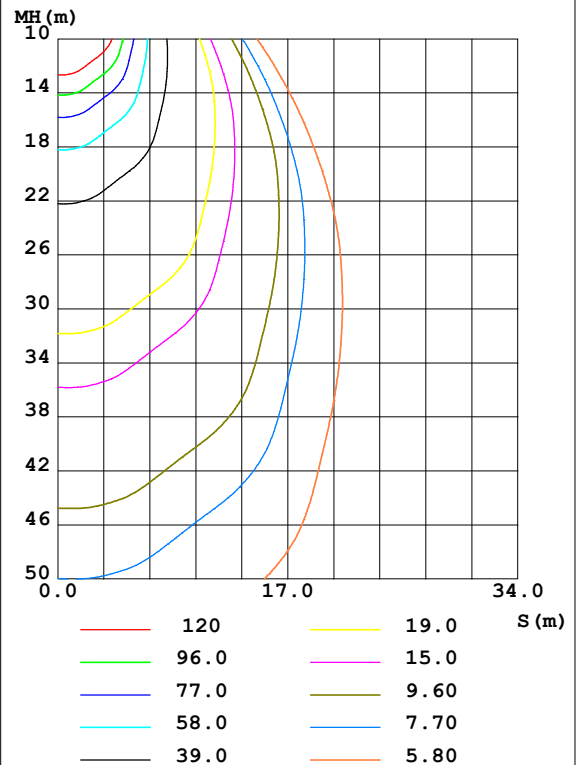
Test:U:218.19V I:1.1124A P:235.90W PF:0.9720 Freq:49.99Hz Lamp Flux:29872.2x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 126.63 lm/W			
MODEL		I _{max} (cd)	19275	S/MH (C0/180)	0.97
NOMINAL POWER (W)	240W	LOR (%)	100.0	S/MH (C90/270)	1.00
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	29872	η UP, DN (C0-180)	1.1, 47.3
NOMINAL FLUX (lm)	29872.2	CIE CLASS	DIRECT	η UP, DN (C180-360)	1.1, 50.4
LAMPS INSIDE	1	η up (%)	2.2	CIBSE SHR NOM	1.00
TEST VOLTAGE (V)	220	η down (%)	97.8	CIBSE SHR MAX	1.05

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: 2024-08-02

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity: 65.0%
Test Distance: 9.250m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum, lamp
10	1801	1764	1797	1795					0- 10	1772	1772	5.93, 5.93
20	1575	1513	1562	1557					10- 20	4725	6497	21.7, 21.7
30	1135	1096	1141	1185					20- 30	6164	12661	42.4, 42.4
40	788.5	719.7	800.7	823.1					30- 40	5965	18625	62.4, 62.4
50	469.1	397.2	488.5	476.7					40- 50	4718	23344	78.1, 78.1
60	247.9	212.0	265.6	254.6					50- 60	3040	26384	88.3, 88.3
70	117.2	98.53	127.2	131.3					60- 70	1757	28141	94.2, 94.2
80	44.08	34.01	49.49	55.34					70- 80	838.2	28979	97, 97
90	9.047	8.744	5.575	5.396					80- 90	223.4	29203	97.8, 97.8
100	8.058	7.981	6.366	6.133					90-100	77.42	29280	98, 98
110	8.139	8.274	7.630	7.310					100-110	78.47	29359	98.3, 98.3
120	9.141	9.430	9.435	9.024					110-120	84.23	29443	98.6, 98.6
130	10.89	11.29	11.67	11.17					120-130	91.50	29534	98.9, 98.9
140	13.12	13.53	14.09	13.45					130-140	95.71	29630	99.2, 99.2
150	15.48	15.80	16.45	15.67					140-150	92.05	29722	99.5, 99.5
160	17.72	17.91	18.57	17.71					150-160	78.13	29800	99.8, 99.8
170	19.52	19.52	19.93	19.08					160-170	53.11	29853	99.9, 99.9
180	20.17	19.95	20.44	19.72					170-180	18.89	29872	100, 100
DEG	LUMINOUS INTENSITY: $\times 10\text{cd}$									UNIT: lm		

Conical surface Flux(90deg): 21198 lm

%lum = 71.0%

%lamp = 71.0%

Conical surface Flux(120deg): 26384 lm

%lum = 88.3%

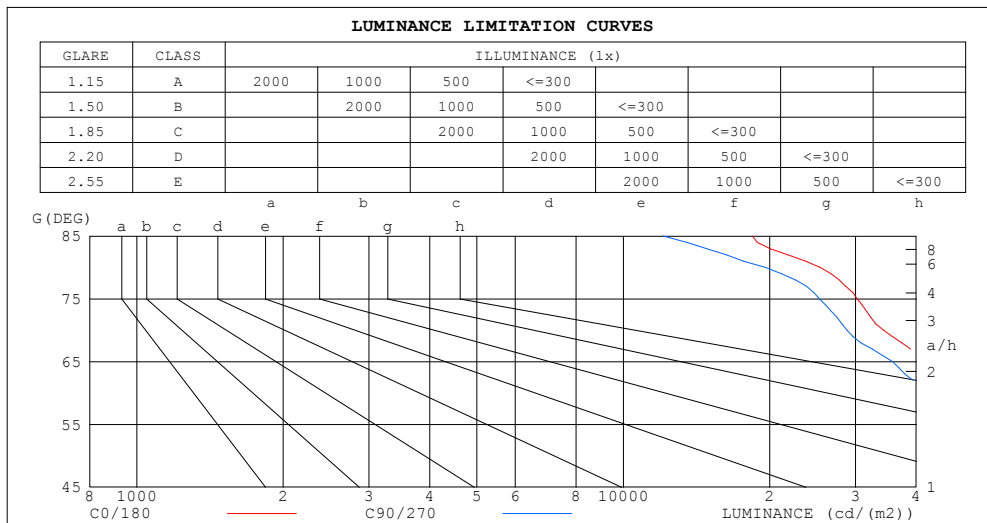
%lamp = 88.3%

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Jason
Test Date: 2024-08-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity: 65.0%
Test Distance: 9.250m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:218.19V I:1.1124A P:235.90W PF:0.9720 Freq:49.99Hz Lamp Flux:29872.2x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



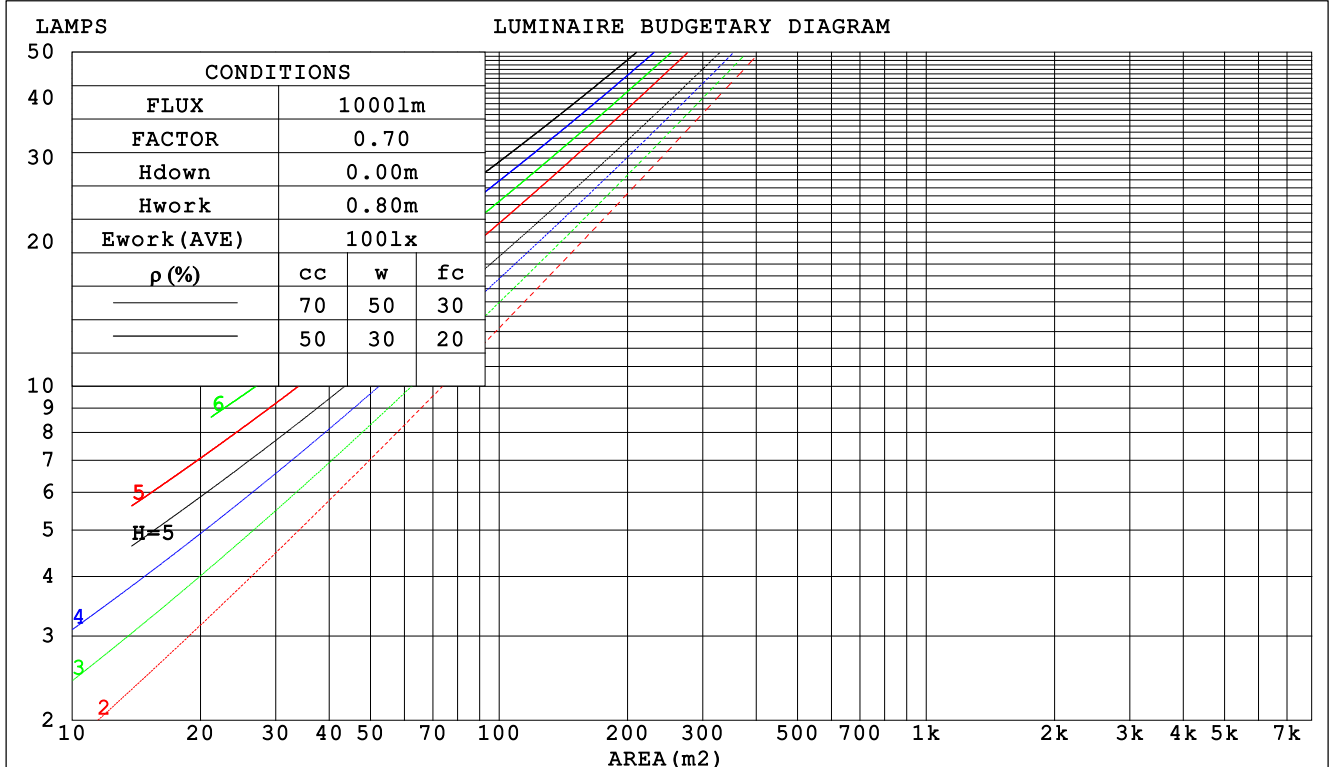
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Jason
Test Date: 2024-08-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity: 65.0%
Test Distance: 9.250m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:218.19V I:1.1124A P:235.90W PF:0.9720 Freq:49.99Hz Lamp Flux:29872.2x1 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	1.07	1.03	1.00	1.04	1.01	.98	.00	.97	.95	.96	.94	.92	.92	.90	.89	.86
2.0	.96	.90	.86	.94	.89	.84	.90	.86	.82	.87	.83	.80	.83	.81	.78	.76
3.0	.86	.80	.74	.85	.79	.74	.82	.76	.72	.79	.74	.71	.76	.72	.69	.67
4.0	.78	.71	.65	.77	.70	.65	.74	.68	.64	.72	.67	.63	.70	.65	.62	.60
5.0	.71	.64	.58	.70	.63	.58	.68	.62	.57	.66	.60	.56	.64	.59	.55	.54
6.0	.65	.58	.52	.64	.57	.52	.62	.56	.51	.61	.55	.51	.59	.54	.50	.48
7.0	.60	.53	.47	.59	.52	.47	.58	.51	.47	.56	.50	.46	.55	.50	.46	.44
8.0	.56	.48	.43	.55	.48	.43	.53	.47	.42	.52	.46	.42	.51	.46	.42	.40
9.0	.52	.44	.39	.51	.44	.39	.50	.43	.39	.49	.43	.39	.48	.42	.38	.37
10.0	.48	.41	.36	.48	.41	.36	.46	.40	.36	.45	.40	.36	.45	.39	.36	.34



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-08-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.250m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:218.19V I:1.1124A P:235.90W PF:0.9720 Freq:49.99Hz Lamp Flux:29872.2x1 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	.245	.140	.044	.238	.136	.043	.224	.128	.041	.211	.121	.039	.198	.115	.037		
2.0	.235	.129	.039	.228	.126	.039	.216	.120	.037	.205	.115	.036	.194	.110	.035		
3.0	.221	.118	.035	.216	.115	.035	.205	.111	.034	.195	.107	.033	.185	.103	.032		
4.0	.208	.108	.032	.203	.106	.031	.193	.102	.031	.184	.099	.030	.176	.096	.029		
5.0	.195	.099	.029	.190	.098	.028	.182	.095	.028	.174	.092	.027	.166	.089	.027		
6.0	.183	.092	.026	.179	.090	.026	.171	.088	.026	.164	.085	.025	.158	.083	.025		
7.0	.172	.085	.024	.169	.084	.024	.162	.082	.024	.156	.080	.023	.150	.078	.023		
8.0	.163	.079	.022	.159	.078	.022	.153	.077	.022	.147	.075	.022	.142	.073	.021		
9.0	.154	.074	.021	.151	.074	.021	.145	.072	.020	.140	.070	.020	.135	.069	.020		
10.0	.146	.070	.019	.143	.069	.019	.138	.068	.019	.133	.066	.019	.129	.065	.019		

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	.193	.174	.157	.165	.149	.135	.113	.103	.093	.065	.059	.054	.021	.019	.018		
2.0	.182	.150	.122	.156	.129	.106	.107	.089	.074	.062	.052	.043	.020	.017	.014		
3.0	.173	.131	.099	.148	.113	.085	.102	.079	.060	.059	.046	.035	.019	.015	.012		
4.0	.164	.118	.082	.141	.102	.071	.097	.071	.050	.056	.041	.030	.018	.014	.010		
5.0	.157	.107	.070	.134	.092	.061	.093	.065	.043	.054	.038	.026	.017	.012	.008		
6.0	.150	.098	.061	.129	.085	.053	.089	.059	.038	.051	.035	.022	.017	.011	.007		
7.0	.143	.091	.054	.123	.079	.047	.085	.055	.034	.049	.033	.020	.016	.011	.007		
8.0	.137	.085	.049	.118	.074	.043	.082	.052	.031	.048	.031	.018	.015	.010	.006		
9.0	.132	.080	.045	.113	.070	.040	.079	.049	.028	.046	.029	.017	.015	.009	.006		
10.0	.127	.076	.042	.109	.066	.037	.076	.046	.026	.044	.027	.016	.014	.009	.005		

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Jason
 Test Date: 2024-08-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.411
 Humidity: 65.0%
 Test Distance: 9.250m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:218.19V I:1.1124A P:235.90W PF:0.9720 Freq:49.99Hz Lamp Flux:29872.2x1 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	25.8	27.1	26.1	27.3	27.5	25.3	26.5	25.5	26.7	27.0
3H	26.4	27.6	26.7	27.8	28.1	25.8	27.0	26.1	27.2	27.5
4H	26.7	27.8	27.0	28.0	28.3	26.0	27.1	26.3	27.4	27.7
6H	26.8	27.8	27.2	28.1	28.4	26.1	27.1	26.5	27.4	27.8
8H	26.8	27.8	27.2	28.1	28.5	26.1	27.1	26.5	27.4	27.7
12H	26.8	27.8	27.2	28.1	28.4	26.1	27.0	26.5	27.4	27.7
4H 2H	26.0	27.1	26.3	27.4	27.7	25.5	26.6	25.9	26.9	27.2
3H	26.8	27.7	27.1	28.0	28.4	26.2	27.2	26.6	27.5	27.8
4H	27.1	28.0	27.5	28.3	28.7	26.5	27.4	26.9	27.7	28.1
6H	27.4	28.1	27.8	28.5	28.9	26.7	27.5	27.2	27.9	28.3
8H	27.4	28.1	27.9	28.5	28.9	26.8	27.5	27.2	27.9	28.3
12H	27.4	28.1	27.9	28.5	28.9	26.8	27.4	27.2	27.8	28.3
8H 4H	27.2	27.9	27.6	28.3	28.7	26.6	27.3	27.1	27.7	28.2
6H	27.5	28.1	28.0	28.5	29.0	26.9	27.5	27.4	27.9	28.4
8H	27.6	28.1	28.1	28.6	29.1	27.0	27.5	27.5	27.9	28.4
12H	27.6	28.1	28.2	28.6	29.1	27.0	27.4	27.5	27.9	28.4
12H 4H	27.1	27.8	27.6	28.2	28.6	26.6	27.2	27.1	27.7	28.1
6H	27.5	28.0	28.0	28.5	29.0	26.9	27.4	27.4	27.9	28.4
8H	27.6	28.0	28.1	28.5	29.0	27.0	27.4	27.5	27.9	28.4
Variations with the observer position at spacings:										
S = 1.0H	+ 0.5 / - 0.7					+ 0.6 / - 0.8				
1.5H	+ 0.4 / - 0.4					+ 0.5 / - 0.6				
2.0H	+ 1.2 / - 1.0					+ 1.2 / - 1.0				

CIE Pub.117, 29872 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 11.8$)
Area: 0.1 m²

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-08-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.250m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:218.19V I:1.1124A P:235.90W PF:0.9720 Freq:49.99Hz Lamp Flux:29872.2x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

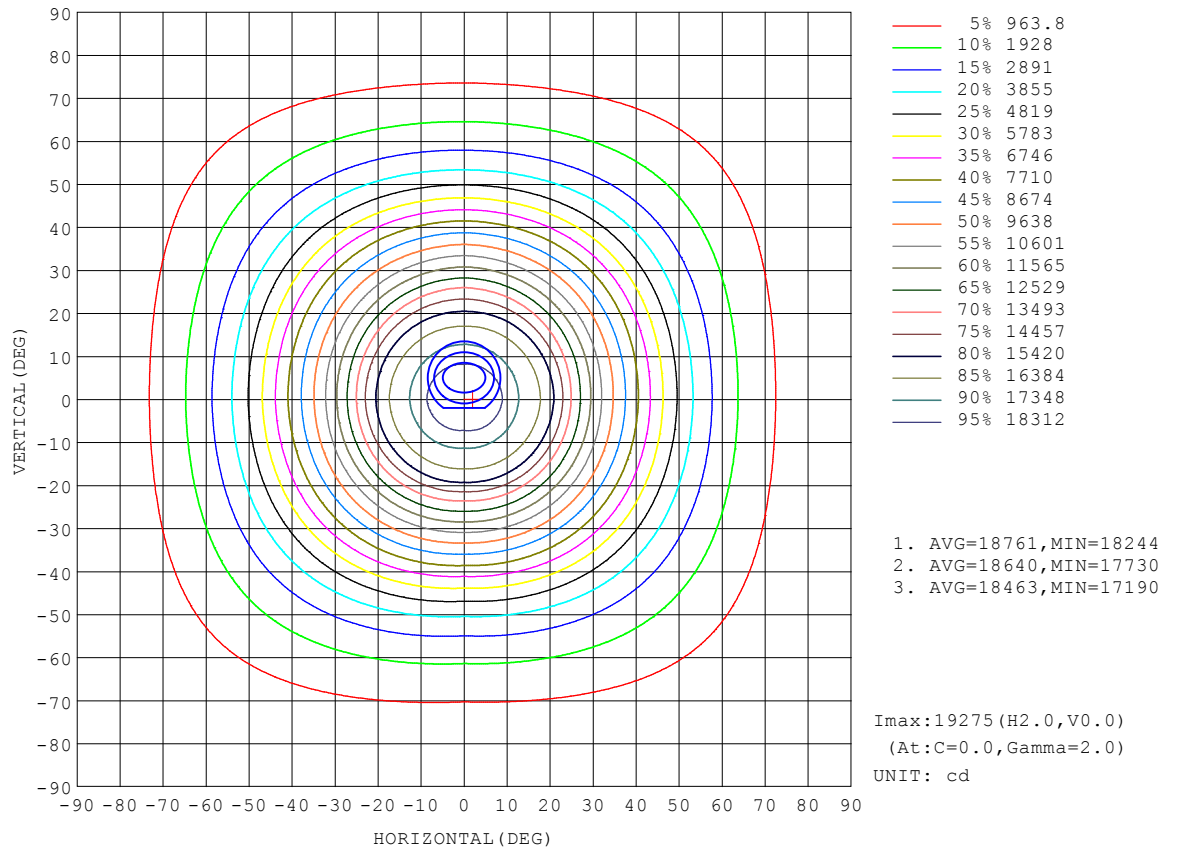
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	68	58	53	67	58	52	66	58	52	47
0.80	77	68	62	76	68	62	75	67	61	56
1.00	85	76	70	84	75	70	81	76	69	63
1.25	91	83	77	90	82	77	87	80	76	69
1.50	95	87	82	93	86	81	91	85	80	74
2.00	100	94	89	99	92	88	95	90	86	79
2.50	103	97	93	101	96	91	97	93	89	82
3.00	106	101	96	104	99	95	100	96	93	84
4.00	109	105	101	107	103	99	102	99	96	88
5.00	111	107	104	108	105	102	104	101	99	90
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: 2024-08-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity: 65.0%
Test Distance: 9.250m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:218.19V I:1.1124A P:235.90W PF:0.9720 Freq:49.99Hz Lamp Flux:29872.2x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

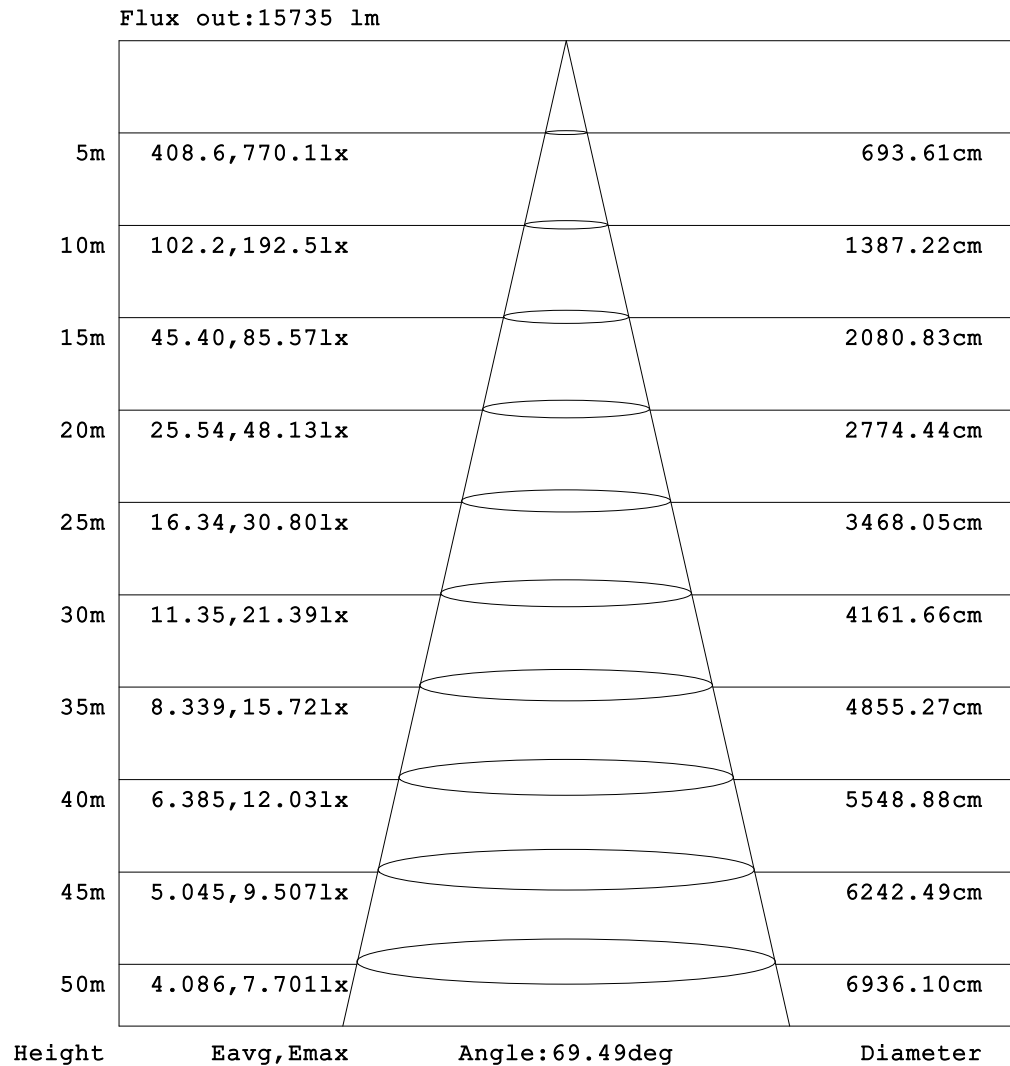


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-08-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.250m [K=1.0000]
Remarks:

AAI Figure

Test:U:218.19V I:1.1124A P:235.90W PF:0.9720 Freq:49.99Hz Lamp Flux:29872.2x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



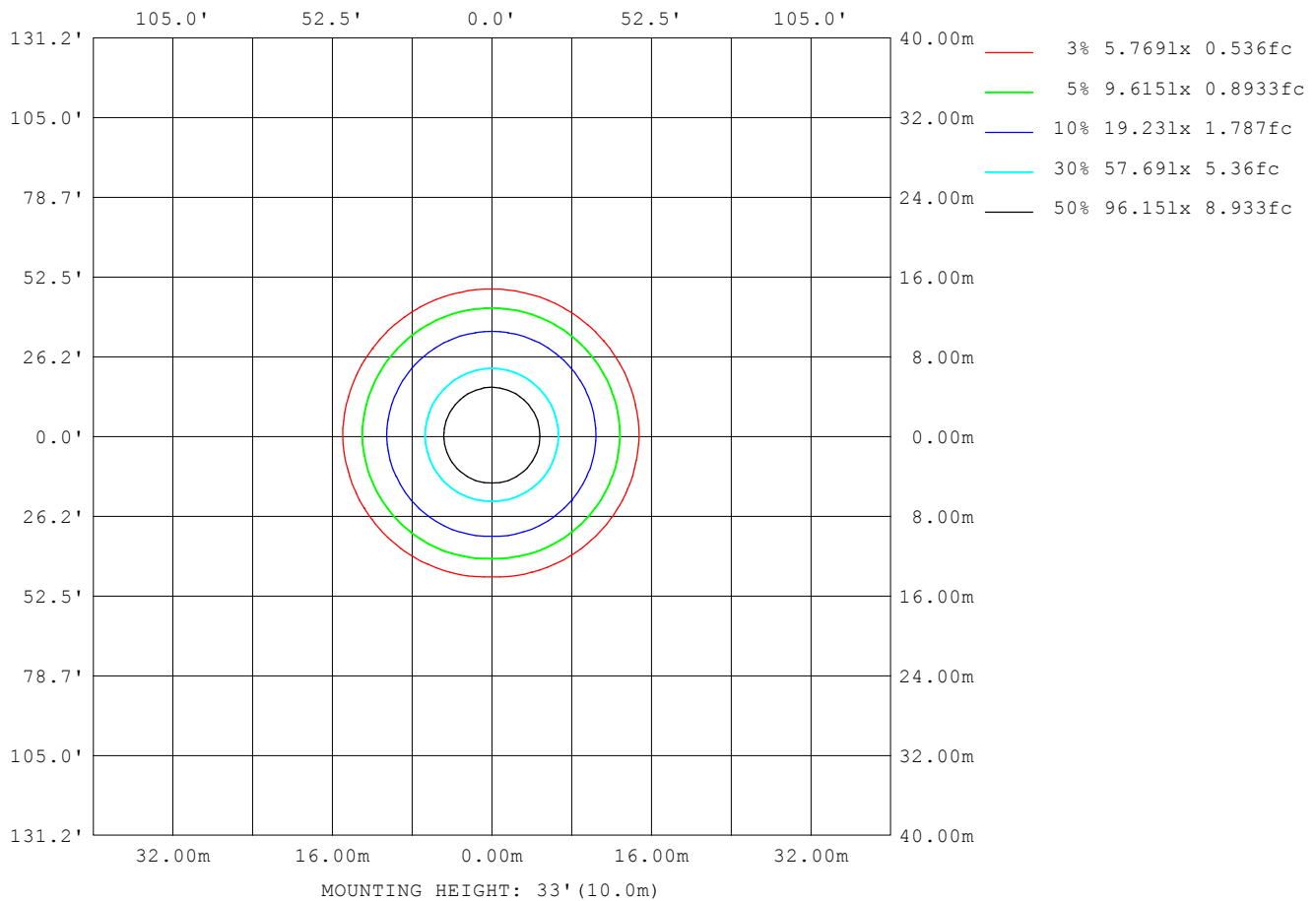
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Jason
 Test Date: 2024-08-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.411
 Humidity: 65.0%
 Test Distance: 9.250m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:218.19V I:1.1124A P:235.90W PF:0.9720 Freq:49.99Hz Lamp Flux:29872.2x1 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:2024-08-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
 Humidity:65.0%
 Test Distance:9.250m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:218.19V I:1.1124A P:235.90W PF:0.9720 Freq:49.99Hz Lamp Flux:29872.2x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

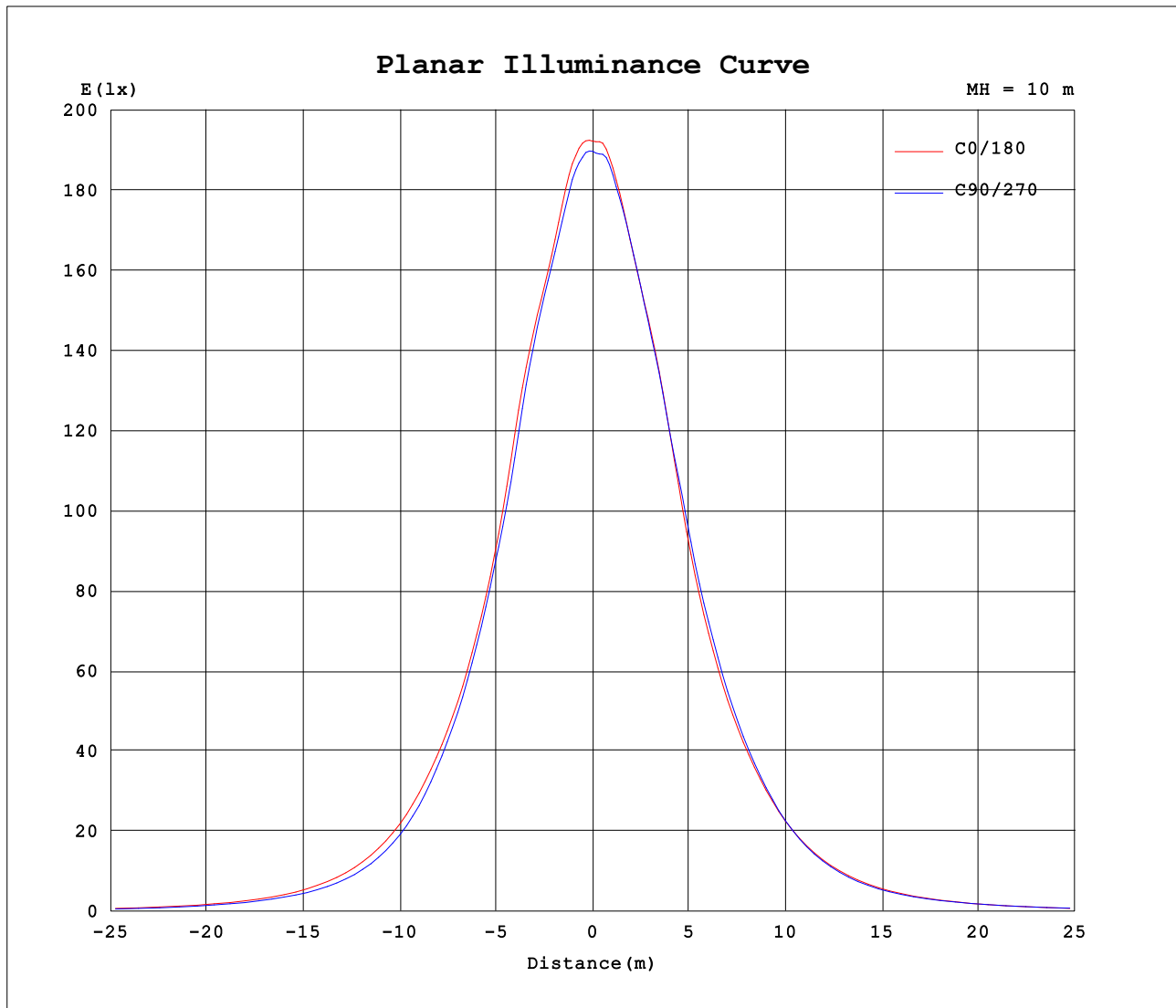
AvgL	cd/m2
L_0~180 (65) av	43299
L_0~180 (75) av	31282
L_0~180 (85) av	19319
L_90~270 (65) av	39957
L_90~270 (75) av	29347
L_90~270 (85) av	19839
L_45 (65) av	41306
L_45 (75) av	30136
L_45 (85) av	19700

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-08-02

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.250m [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: 2024-08-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity: 65.0%
Test Distance: 9.250m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:218.19V I:1.1124A P:235.90W PF:0.9720 Freq:49.99Hz Lamp Flux:29872.2x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

Table--1

UNIT: ×10cd

C (DEG) γ (DEG)	0	90	180	270															
0	1923	1897	1923	1897															
5	1909	1873	1904	1886															
10	1801	1764	1797	1795															
15	1693	1665	1687	1685															
20	1575	1513	1562	1557															
25	1343	1291	1352	1389															
30	1135	1096	1141	1185															
35	953	903	960	1000															
40	788	720	801	823															
45	619	541	639	641															
50	469	397	489	477															
55	344	288	363	346															
60	248	212	266	255															
65	177	151	189	187															
70	117	98.5	127	131															
75	78.3	65.5	83.6	86.4															
80	44.1	34.0	49.5	55.3															
85	16.1	10.5	17.6	24.1															
90	9.05	8.74	5.57	5.40															
95	8.41	8.24	5.91	5.69															
100	8.06	7.98	6.37	6.13															
105	7.96	8.00	6.92	6.66															
110	8.14	8.27	7.63	7.31															
115	8.54	8.75	8.48	8.11															
120	9.14	9.43	9.43	9.02															
125	9.93	10.3	10.5	10.1															
130	10.9	11.3	11.7	11.2															
135	12.0	12.4	12.9	12.3															
140	13.1	13.5	14.1	13.4															
145	14.3	14.7	15.3	14.6															
150	15.5	15.8	16.4	15.7															
155	16.6	16.9	17.6	16.8															
160	17.7	17.9	18.6	17.7															
165	18.7	18.8	19.4	18.5															
170	19.5	19.5	19.9	19.1															
175	20.0	19.9	20.3	19.5															
180	20.2	20.0	20.4	19.7															

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-08-02

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.250m [K=1.0000]
Remarks: