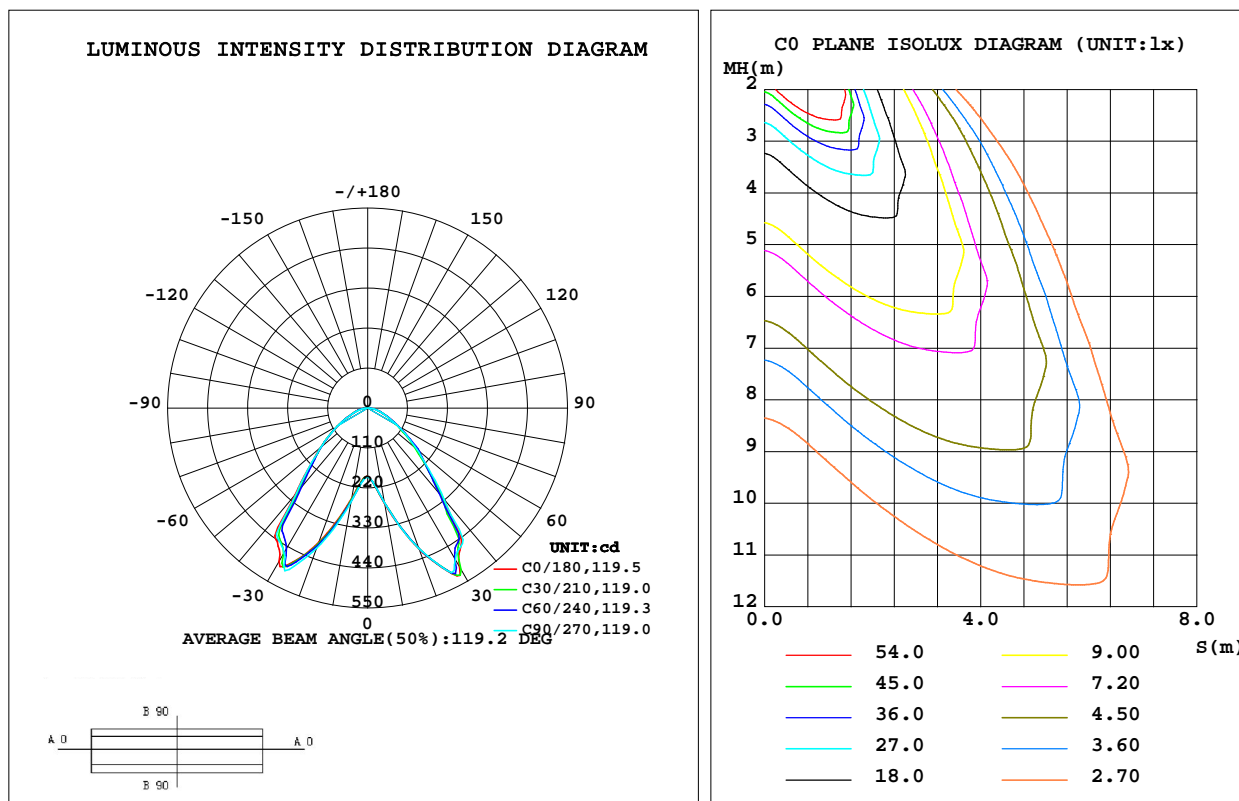


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.17V I:0.3193A P:68.173W PF:0.9699 Freq:50.00Hz Lamp Flux:997.657x1 lm					
NAME: 1960-M3		TYPE:		WEIGHT:	
SPEC.:		DIM.:		SERIAL No.:	
MFR.:		SUR.:914mm			

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 14.63 lm/W
MODEL		I _{max} (cd)	531.6	S/MH(C0/180)	1.67	
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	1.66	
RATED VOLTAGE(V)	--	TOTAL FLUX(lm)	997.66	η UP,DN(C0-180)	0.0,50.4	
NOMINAL FLUX(lm)	997.657	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,49.6	
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.75	
TEST VOLTAGE(V)	--	η down(%)	100.0	CIBSE SHR MAX	0.75	



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:XIAOMI
 Test Date:2023-05-25

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.411
 Humidity:65.0%
 Test Distance:9.000m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	265.5	259.0	262.1	257.0	250.5	258.0	260.5	265.0	0- 10	21.61	21.61	2.17,2.17
20	411.9	405.9	410.8	399.2	392.0	401.2	409.6	413.6	10- 20	96.10	117.7	11.8,11.8
30	505.4	507.2	482.5	493.7	487.6	441.3	460.6	504.6	20- 30	218.7	336.4	33.7,33.7
40	318.8	300.8	327.1	298.1	311.8	284.9	304.8	304.0	30- 40	258.8	595.2	59.7,59.7
50	175.1	180.9	177.6	172.7	169.1	164.6	169.0	177.6	40- 50	178.9	774.1	77.6,77.6
60	94.61	92.12	92.59	93.27	90.68	89.38	91.04	99.57	50- 60	117.2	891.3	89.3,89.3
70	46.66	46.04	45.79	46.99	44.12	46.52	42.64	49.32	60- 70	66.28	957.6	96,96
80	19.73	19.80	18.55	20.08	17.89	20.04	16.09	22.03	70- 80	34.09	991.7	99.4,99.4
90	0.3006	0.3083	0.3112	0.3228	0.3228	0.3353	0.3362	0.3507	80- 90	5.993	997.7	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 693.16 lm

%lum = 69.5%

%lamp = 69.5%

Conical surface Flux(120deg): 891.29 lm

%lum = 89.3%

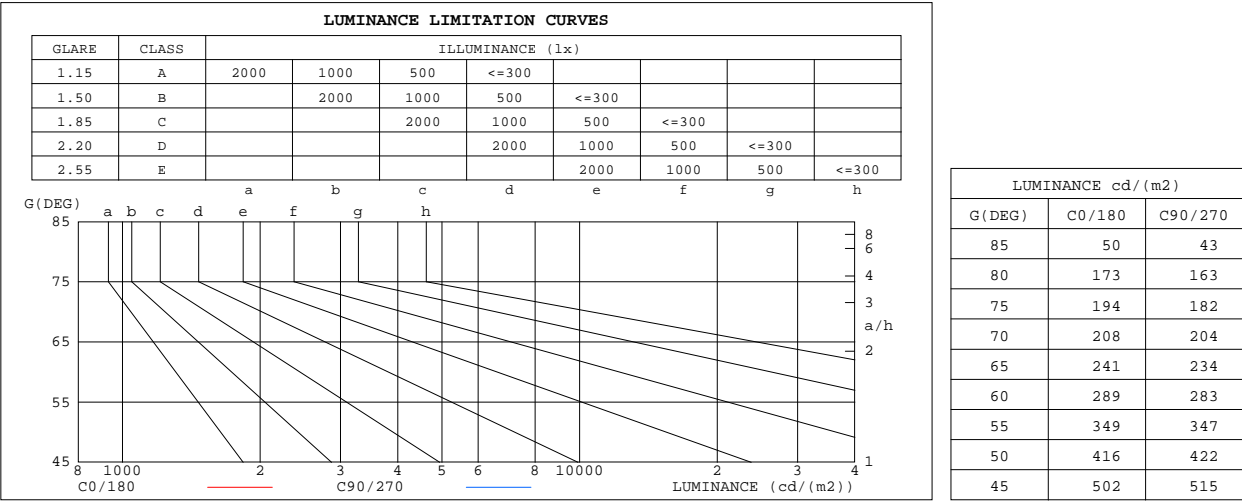
%lamp = 89.3%

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:XIAOMI
 Test Date:2023-05-25

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.411
 Humidity:65.0%
 Test Distance:9.000m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:220.17V I:0.3193A P:68.173W PF:0.9699 Freq:50.00Hz Lamp Flux:997.657x1 lm		
NAME: 1960-M3	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:914mm	



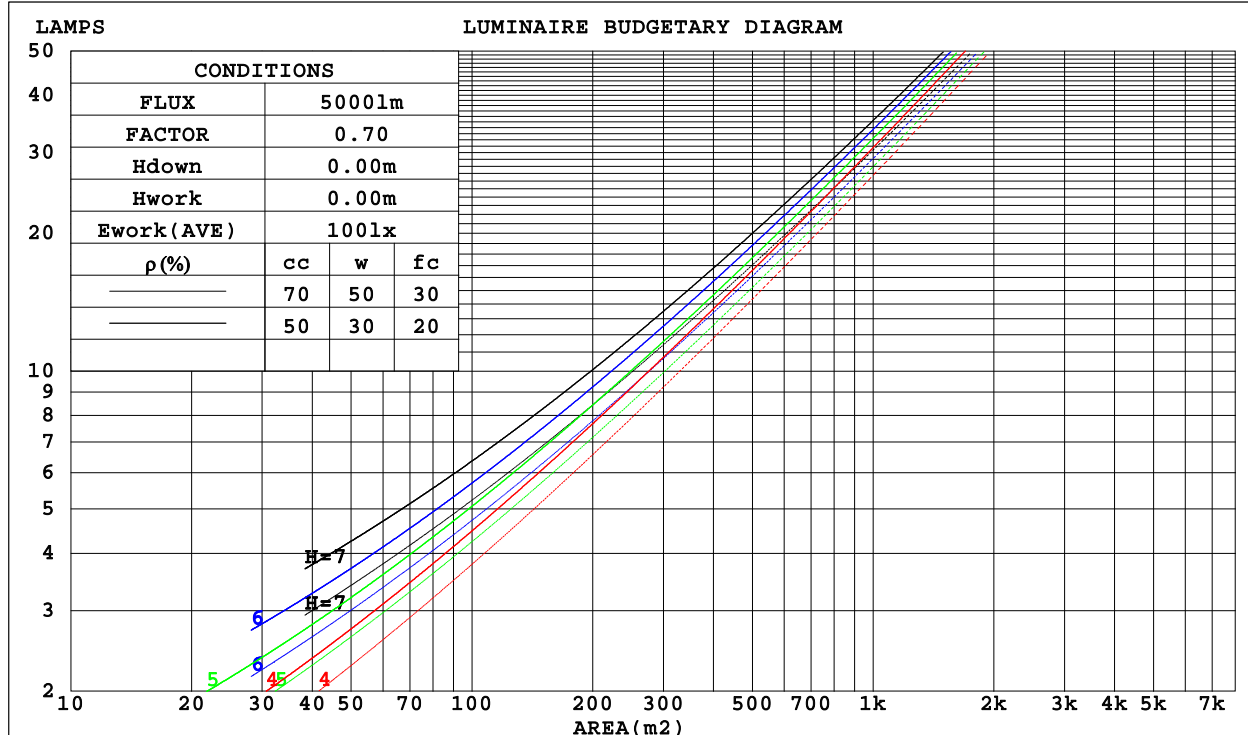
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:XIAOMI
Test Date:2023-05-25

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.000m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.17V I:0.3193A P:68.173W PF:0.9699 Freq:50.00Hz Lamp Flux:997.657x1 lm		
NAME: 1960-M3	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:914mm	

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	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	.00
1.0	1.07	1.03	.00	1.04	1.01	.98	1.00	.97	.95	.96	.94	.92	.93	.91	.89	.87
2.0	.95	.89	.84	.93	.88	.83	.89	.85	.81	.86	.83	.79	.83	.80	.77	.75
3.0	.85	.77	.72	.83	.76	.71	.80	.74	.70	.78	.73	.69	.75	.71	.67	.65
4.0	.76	.68	.62	.75	.67	.61	.72	.66	.61	.70	.64	.60	.68	.63	.59	.57
5.0	.68	.60	.54	.67	.60	.54	.65	.58	.53	.63	.57	.53	.61	.56	.52	.50
6.0	.62	.54	.48	.61	.53	.47	.59	.52	.47	.58	.51	.47	.56	.51	.46	.44
7.0	.56	.48	.42	.55	.48	.42	.54	.47	.42	.53	.46	.42	.51	.46	.41	.39
8.0	.51	.43	.38	.51	.43	.38	.49	.42	.37	.48	.42	.37	.47	.41	.37	.35
9.0	.47	.39	.34	.46	.39	.34	.45	.39	.34	.44	.38	.34	.43	.38	.33	.32
10.0	.43	.36	.31	.43	.36	.31	.42	.35	.30	.41	.35	.30	.40	.34	.30	.29



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:XIAOMI
 Test Date:2023-05-25

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.411
 Humidity:65.0%
 Test Distance:9.000m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:220.17V I:0.3193A P:68.173W PF:0.9699 Freq:50.00Hz Lamp Flux:997.657x1 lm		
NAME: 1960-M3	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:914mm	

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	.259	.147	.047	.252	.144	.046	.239	.137	.044	.227	.131	.042	.216	.125	.040		
2.0	.250	.137	.042	.244	.135	.041	.233	.130	.040	.222	.125	.039	.213	.120	.038		
3.0	.237	.126	.038	.231	.124	.037	.221	.120	.036	.212	.116	.036	.204	.113	.035		
4.0	.222	.116	.034	.218	.114	.034	.209	.111	.033	.201	.108	.033	.193	.105	.032		
5.0	.209	.106	.031	.205	.105	.031	.197	.103	.030	.190	.100	.030	.183	.098	.029		
6.0	.196	.098	.028	.193	.097	.028	.186	.095	.028	.179	.093	.027	.173	.091	.027		
7.0	.185	.091	.026	.182	.091	.026	.175	.089	.026	.170	.087	.025	.164	.085	.025		
8.0	.174	.085	.024	.172	.084	.024	.166	.083	.024	.161	.081	.023	.156	.080	.023		
9.0	.165	.080	.022	.162	.079	.022	.157	.078	.022	.153	.076	.022	.148	.075	.022		
10.0	.156	.075	.021	.154	.074	.021	.149	.073	.021	.145	.072	.020	.141	.071	.020		

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	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.177	.157	.138	.151	.134	.119	.103	.092	.082	.060	.054	.048	.019	.017	.015	
2.0	.167	.132	.103	.143	.114	.089	.098	.079	.062	.056	.046	.036	.018	.015	.012	
3.0	.158	.114	.079	.136	.098	.069	.093	.068	.048	.054	.040	.028	.017	.013	.009	
4.0	.150	.100	.062	.129	.087	.054	.089	.060	.038	.051	.035	.023	.017	.012	.007	
5.0	.143	.090	.050	.123	.078	.044	.085	.054	.031	.049	.032	.018	.016	.010	.006	
6.0	.136	.081	.042	.117	.070	.036	.081	.049	.026	.047	.029	.015	.015	.009	.005	
7.0	.130	.074	.035	.112	.064	.031	.077	.045	.022	.045	.027	.013	.015	.009	.004	
8.0	.124	.068	.030	.107	.059	.026	.074	.042	.019	.043	.025	.011	.014	.008	.004	
9.0	.119	.064	.026	.102	.055	.023	.071	.039	.016	.041	.023	.010	.013	.008	.003	
10.0	.114	.059	.023	.098	.052	.020	.068	.036	.014	.040	.021	.009	.013	.007	.003	

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:XIAOMI
 Test Date:2023-05-25

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.411
 Humidity:65.0%
 Test Distance:9.000m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:220.17V I:0.3193A P:68.173W PF:0.9699 Freq:50.00Hz Lamp Flux:997.657x1 lm											
NAME: 1960-M3					TYPE:			WEIGHT:			
SPEC.:					DIM.:			SERIAL No.:			
MFR.:					SUR.:914mm						
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	8.6	10.0	8.9	10.2	10.4	8.8	10.1	9.0	10.3	10.5	
	9.2	10.5	9.5	10.7	10.9	9.3	10.6	9.6	10.8	11.0	
	9.5	10.7	9.8	10.9	11.2	9.5	10.7	9.8	11.0	11.2	
	9.7	10.8	10.0	11.1	11.3	9.7	10.8	10.0	11.1	11.4	
	9.7	10.8	10.1	11.1	11.4	9.8	10.8	10.1	11.1	11.4	
	9.7	10.7	10.0	11.0	11.3	9.7	10.8	10.1	11.0	11.3	
4H	2H	8.8	10.0	9.1	10.3	10.5	9.0	10.2	9.3	10.4	
	3H	9.6	10.6	9.9	10.9	11.2	9.7	10.7	10.0	11.0	
	4H	10.0	10.9	10.3	11.2	11.6	10.0	11.0	10.4	11.3	
	6H	10.3	11.2	10.7	11.5	11.9	10.4	11.2	10.7	11.5	
	8H	10.4	11.2	10.8	11.5	11.9	10.4	11.2	10.8	11.5	
	12H	10.4	11.1	10.8	11.5	11.9	10.4	11.1	10.8	11.5	
8H	4H	10.1	10.9	10.5	11.2	11.6	10.2	10.9	10.6	11.3	
	6H	10.6	11.2	11.0	11.6	12.0	10.6	11.2	11.0	11.6	
	8H	10.7	11.3	11.2	11.7	12.1	10.7	11.2	11.1	11.7	
	12H	10.7	11.2	11.2	11.6	12.1	10.7	11.1	11.1	11.6	
12H	4H	10.1	10.8	10.5	11.2	11.6	10.2	10.9	10.6	11.2	
	6H	10.6	11.2	11.1	11.6	12.0	10.6	11.2	11.1	11.6	
	8H	10.7	11.2	11.2	11.6	12.1	10.7	11.2	11.2	11.6	
Variations with the observer position at spacings:											
S = 1.0H	+ 0.6 / - 0.7					+ 0.6 / - 0.8					
1.5H	+ 0.7 / - 0.5					+ 0.8 / - 0.4					
2.0H	+ 1.1 / - 1.0					+ 1.1 / - 0.9					

CIE Pub.117, 997.7 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = -0.0$)
Area: 0.655 m²

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:XIAOMI
Test Date:2023-05-25

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.000m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:220.17V I:0.3193A P:68.173W PF:0.9699 Freq:50.00Hz Lamp Flux:997.657x1 lm		
NAME: 1960-M3	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:914mm	

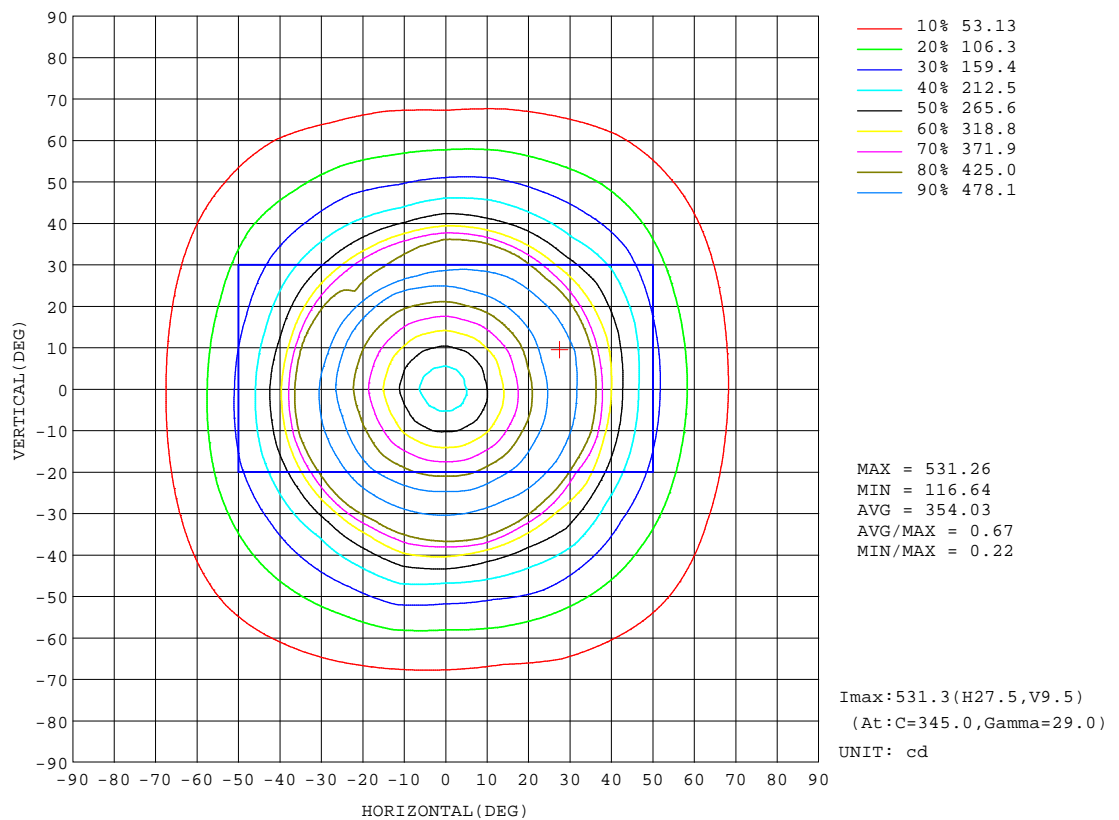
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	66	56	50	66	56	50	65	56	50	44
0.80	76	66	60	75	66	60	74	65	60	54
1.00	84	75	69	83	74	68	81	75	68	62
1.25	90	82	76	89	81	75	87	80	75	68
1.50	95	87	81	93	86	80	90	84	79	73
2.00	100	93	88	99	92	87	95	90	86	79
2.50	103	97	92	101	96	91	98	93	89	82
3.00	106	100	96	104	99	95	100	96	93	85
4.00	109	105	101	107	103	99	103	100	97	89
5.00	111	107	104	109	105	102	104	102	99	91
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:XIAOMI
 Test Date:2023-05-25

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.411
 Humidity:65.0%
 Test Distance:9.000m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:220.17V I:0.3193A P:68.173W PF:0.9699 Freq:50.00Hz Lamp Flux:997.657x1 lm		
NAME: 1960-M3	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:914mm	



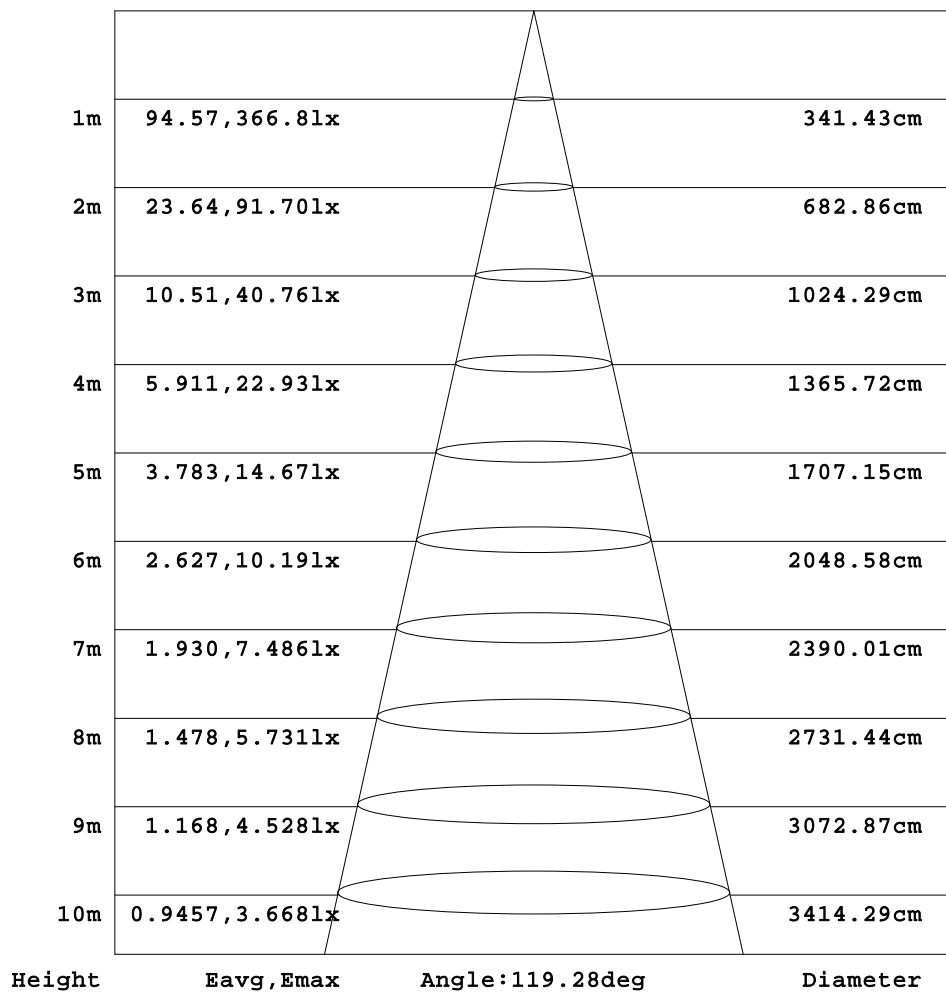
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:XIAOMI
Test Date:2023-05-25

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.000m [K=1.0000]
Remarks:

AAI Figure

Test:U:220.17V I:0.3193A P:68.173W PF:0.9699 Freq:50.00Hz Lamp Flux:997.657x1 lm		
NAME: 1960-M3	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:914mm	

Flux out:891.3 lm



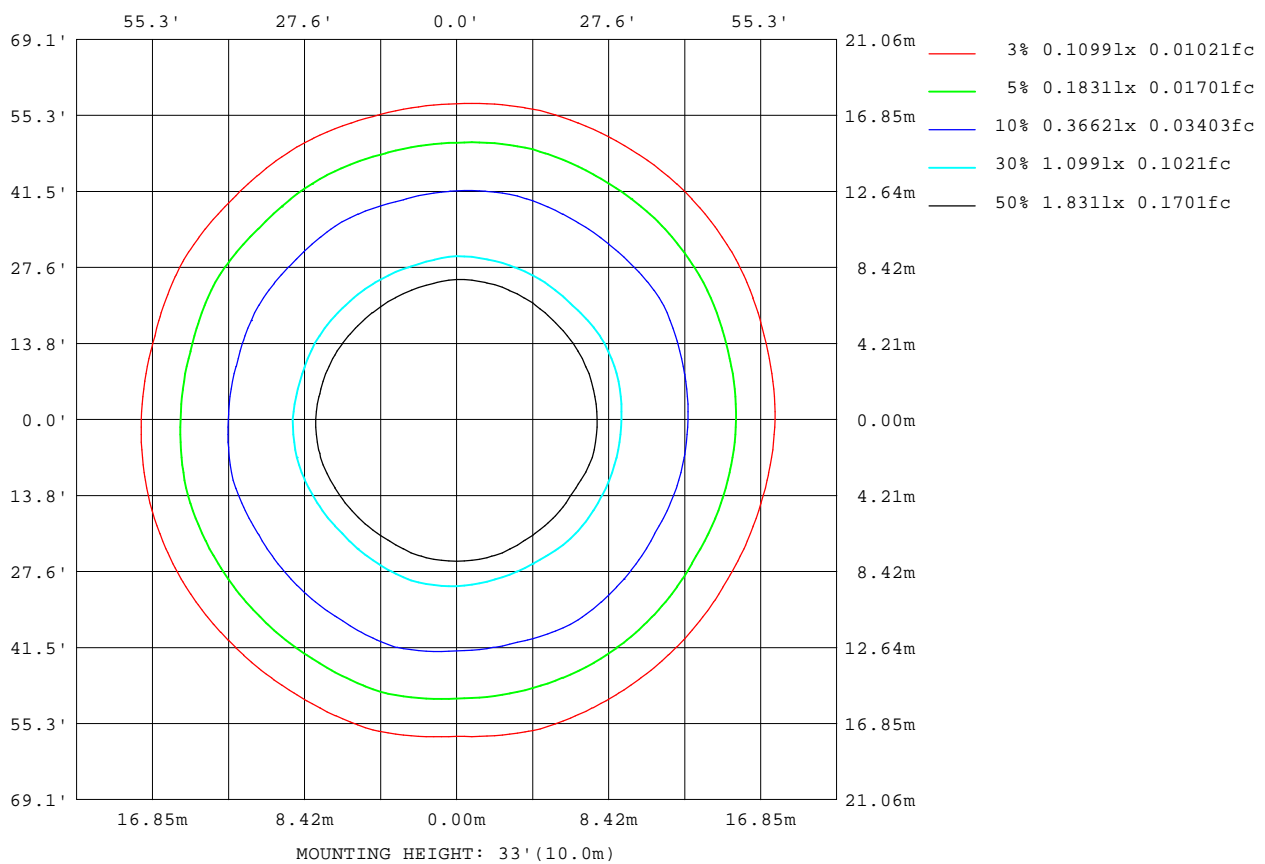
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: XIAOMI
 Test Date: 2023-05-25

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-3000H_V1 SYSTEM V2.00.411
 Humidity: 65.0%
 Test Distance: 9.000m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

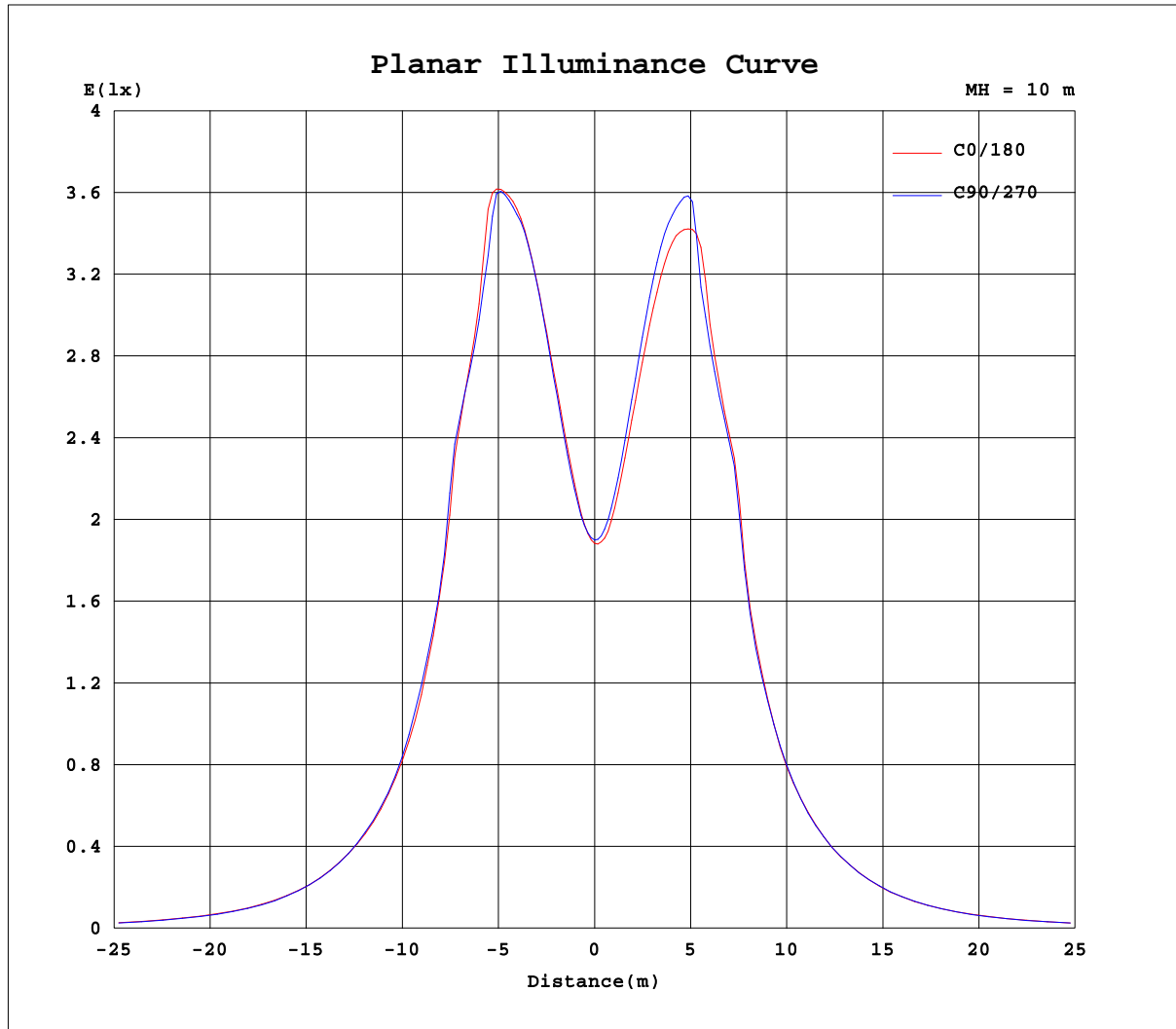
Test:U:220.17V I:0.3193A P:68.173W PF:0.9699 Freq:50.00Hz Lamp Flux:997.657x1 lm		
NAME: 1960-M3	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:914mm	



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:XIAOMI
Test Date:2023-05-25

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.000m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: XIAOMI
Test Date: 2023-05-25

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-3000H_V1 SYSTEM V2.00.411
Humidity: 65.0%
Test Distance: 9.000m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.17V I:0.3193A P:68.173W PF:0.9699 Freq:50.00Hz Lamp Flux:997.657x1 lm		
NAME: 1960-M3	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:914mm	

Table--1

UNIT: cd

[illegible]

```
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:XIAOMI
Test Date:2023-05-25
```

```

Range: 0 - 90DEG
Interval: 1.0DEG
Test System: EVERFINE GO-3000H_V1 SYSTEM V2.00.411
Humidity: 65.0%
Test Distance: 9.000m [K=1.0000]
Remarks:

```

