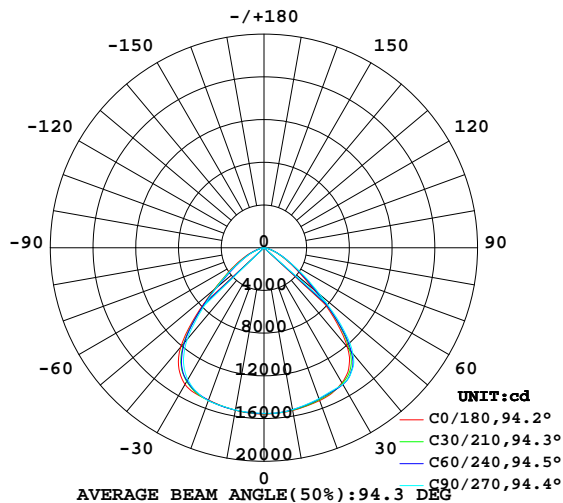


LUMINAIRE PHOTOMETRIC TEST REPORT

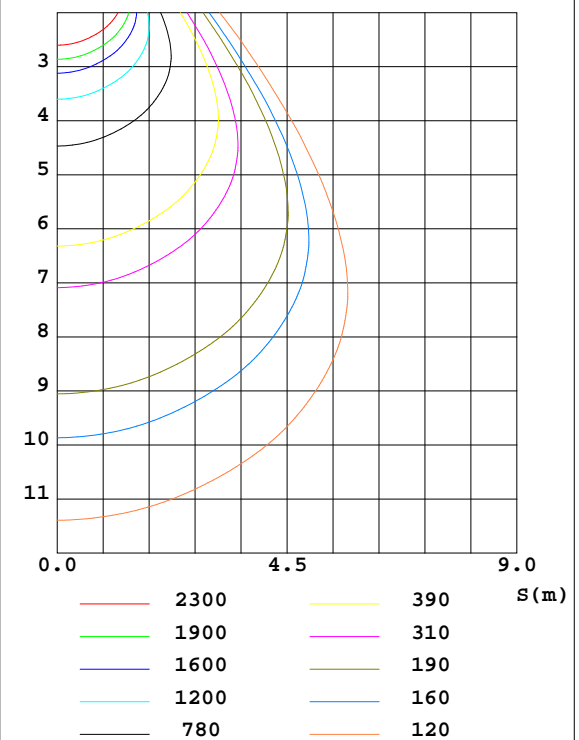
Test:U:231.5V I:1.019A P:233.2W PF:0.9888 Lamp Flux:34530.6x1 lm		
NAME: 270862	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:0.191	PROTECTION ANGLE:0.14

DATA OF LAMP		PHOTOMETRIC DATA Eff: 148.10 lm/W			
MODEL	270862	Imax(cd)	15575	S/MH(C0/180)	1.34
NOMINAL POWER(W)	234	LOR(%)	100.0	S/MH(C90/270)	1.38
RATED VOLTAGE(V)	232	TOTAL FLUX(lm)	34531	η UP,DN(C0-180)	0.0,51.3
NOMINAL FLUX(lm)	34530.6	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,48.7
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	231.5	η down(%)	100.0	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2022-03-21

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.267
 Humidity:65.0%
 Test Distance:6.900m [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	1547	1542	1539	1536	1545	1544	1542	1538	0- 10	1477	1477	4.28,4.28
20	1523	1511	1503	1503	1518	1521	1524	1523	10- 20	4329	5805	16.8,16.8
30	1460	1473	1476	1472	1478	1444	1427	1438	20- 30	6901	12707	36.8,36.8
40	1216	1260	1295	1284	1214	1165	1118	1116	30- 40	8527	21234	61.5,61.5
50	615.4	651.8	690.1	673.0	614.0	588.5	581.0	559.3	40- 50	7023	28257	81.8,81.8
60	267.5	282.2	291.3	278.5	289.4	257.5	252.4	271.2	50- 60	3772	32028	92.8,92.8
70	103.8	107.3	103.9	106.1	112.8	97.87	89.41	104.0	60- 70	1789	33817	97.9,97.9
80	26.31	25.60	25.83	26.27	25.62	24.34	23.15	24.33	70- 80	604.1	34421	99.7,99.7
90	2.162	2.107	2.113	2.136	3.043	3.092	3.124	3.113	80- 90	109.4	34531	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:×10cd									UNIT:lm		

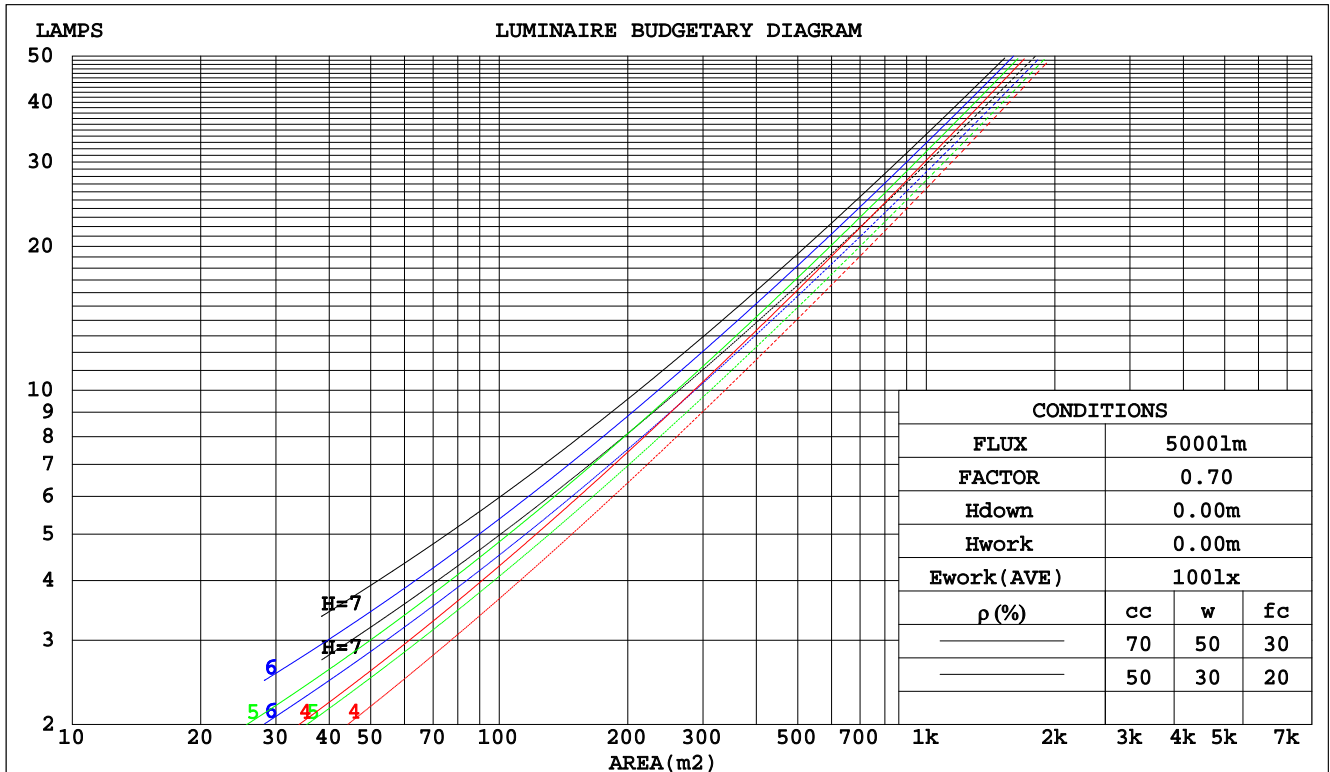
C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2022-03-21

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.267
 Humidity:65.0%
 Test Distance:6.900m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:231.5V I:1.019A P:233.2W PF:0.9888 Lamp Flux:34530.6x1 lm		
NAME: 270862	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:0.191	PROTECTION ANGLE:0.14

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															



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2022-03-21

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.267
 Humidity:65.0%
 Test Distance:6.900m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:231.5V I:1.019A P:233.2W PF:0.9888 Lamp Flux:34530.6x1 lm								
NAME: 270862			TYPE:			WEIGHT:		
DIM.:			SPEC.:			SERIAL No.:		
MFR.:			SUR.:0.191			PROTECTION ANGLE:0.14		

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	.241	.137	.043	.234	.133	.042	.221	.127	.040	.209	.120	.039	.198	.115	.037		
2.0	.234	.128	.039	.228	.126	.039	.217	.121	.038	.207	.116	.036	.197	.112	.035		
3.0	.223	.119	.036	.218	.117	.035	.208	.113	.034	.199	.109	.033	.191	.106	.033		
4.0	.211	.110	.032	.207	.108	.032	.198	.105	.031	.190	.102	.031	.183	.099	.030		
5.0	.199	.102	.029	.195	.100	.029	.188	.098	.029	.181	.095	.028	.174	.093	.028		
6.0	.188	.094	.027	.185	.093	.027	.178	.091	.027	.171	.089	.026	.165	.087	.026		
7.0	.178	.088	.025	.175	.087	.025	.168	.085	.025	.163	.083	.024	.157	.082	.024		
8.0	.168	.082	.023	.165	.081	.023	.160	.080	.023	.155	.078	.023	.150	.077	.022		
9.0	.159	.077	.022	.157	.076	.021	.152	.075	.021	.147	.074	.021	.143	.072	.021		
10.0	.151	.072	.020	.149	.072	.020	.144	.071	.020	.140	.070	.020	.136	.068	.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	.176	.157	.140	.150	.135	.120	.103	.093	.083	.059	.054	.048	.019	.017	.016	
2.0	.165	.132	.105	.141	.114	.091	.097	.079	.063	.056	.046	.037	.018	.015	.012	
3.0	.155	.114	.081	.133	.098	.070	.092	.068	.049	.053	.040	.029	.017	.013	.009	
4.0	.148	.100	.064	.127	.087	.056	.087	.060	.039	.050	.035	.023	.016	.012	.008	
5.0	.140	.089	.052	.120	.077	.045	.083	.054	.032	.048	.032	.019	.015	.010	.006	
6.0	.134	.081	.043	.115	.070	.037	.079	.049	.026	.046	.029	.016	.015	.009	.005	
7.0	.127	.074	.036	.110	.064	.031	.076	.045	.022	.044	.026	.013	.014	.009	.004	
8.0	.122	.068	.031	.105	.059	.027	.072	.041	.019	.042	.024	.011	.014	.008	.004	
9.0	.116	.063	.027	.100	.055	.024	.069	.038	.017	.040	.023	.010	.013	.007	.003	
10.0	.111	.059	.024	.096	.051	.021	.067	.036	.015	.039	.021	.009	.013	.007	.003	

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2022-03-21

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.267
Humidity:65.0%
Test Distance:6.900m [K=1.0000]
Remarks:

Uncorrected UGR Table

Test:U:231.5V I:1.019A P:233.2W PF:0.9888 Lamp Flux:34530.6x1 lm											
NAME: 270862					TYPE:			WEIGHT:			
DIM.:					SPEC.:			SERIAL No.:			
MFR.:					SUR.:0.191			PROTECTION ANGLE:0.14			
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		32.2	33.5	32.4	33.7	33.9	32.5	33.8	32.7	34.0	34.2
	3H	32.4	33.6	32.7	33.8	34.1	32.7	33.9	33.0	34.1	34.3
	4H	32.4	33.6	32.7	33.8	34.0	32.7	33.8	33.0	34.1	34.3
	6H	32.4	33.5	32.7	33.7	34.0	32.7	33.7	33.0	34.0	34.2
	8H	32.4	33.4	32.7	33.7	33.9	32.6	33.6	32.9	33.9	34.2
	12H	32.3	33.3	32.7	33.6	33.9	32.6	33.6	32.9	33.8	34.1
4H	2H	32.3	33.4	32.6	33.6	33.9	32.5	33.6	32.8	33.9	34.1
	3H	32.6	33.6	32.9	33.9	34.1	32.8	33.8	33.2	34.1	34.4
	4H	32.6	33.5	33.0	33.8	34.2	32.9	33.8	33.3	34.1	34.4
	6H	32.7	33.4	33.0	33.8	34.1	32.9	33.7	33.3	34.0	34.4
	8H	32.6	33.4	33.0	33.7	34.1	32.9	33.6	33.3	34.0	34.3
	12H	32.6	33.3	33.0	33.6	34.0	32.8	33.5	33.3	33.9	34.3
8H	4H	32.6	33.3	33.0	33.7	34.1	32.8	33.6	33.2	33.9	34.3
	6H	32.6	33.2	33.1	33.6	34.0	32.9	33.5	33.3	33.9	34.3
	8H	32.6	33.2	33.1	33.6	34.0	32.9	33.4	33.3	33.8	34.2
	12H	32.6	33.1	33.1	33.5	34.0	32.8	33.3	33.3	33.7	34.2
12H	4H	32.6	33.2	33.0	33.6	34.0	32.8	33.5	33.2	33.8	34.2
	6H	32.6	33.1	33.1	33.5	34.0	32.8	33.4	33.3	33.8	34.2
	8H	32.6	33.1	33.1	33.5	34.0	32.8	33.3	33.3	33.7	34.2
Variations with the observer position at spacings:											
S = 1.0H	+ 1.3 / - 1.6					+ 1.2 / - 1.5					
1.5H	+ 0.8 / - 1.0					+ 0.8 / - 1.2					
2.0H	+ 2.5 / - 2.1					+ 2.6 / - 2.1					

CIE Pub.117 Corrected 34531 lm Total Lamp Luminous Flux.(8log(F/F0) = 12.3)

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2022-03-21

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.267
Humidity:65.0%
Test Distance:6.900m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:231.5V I:1.019A P:233.2W PF:0.9888 Lamp Flux:34530.6x1 lm		
NAME: 270862	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:0.191	PROTECTION ANGLE:0.14

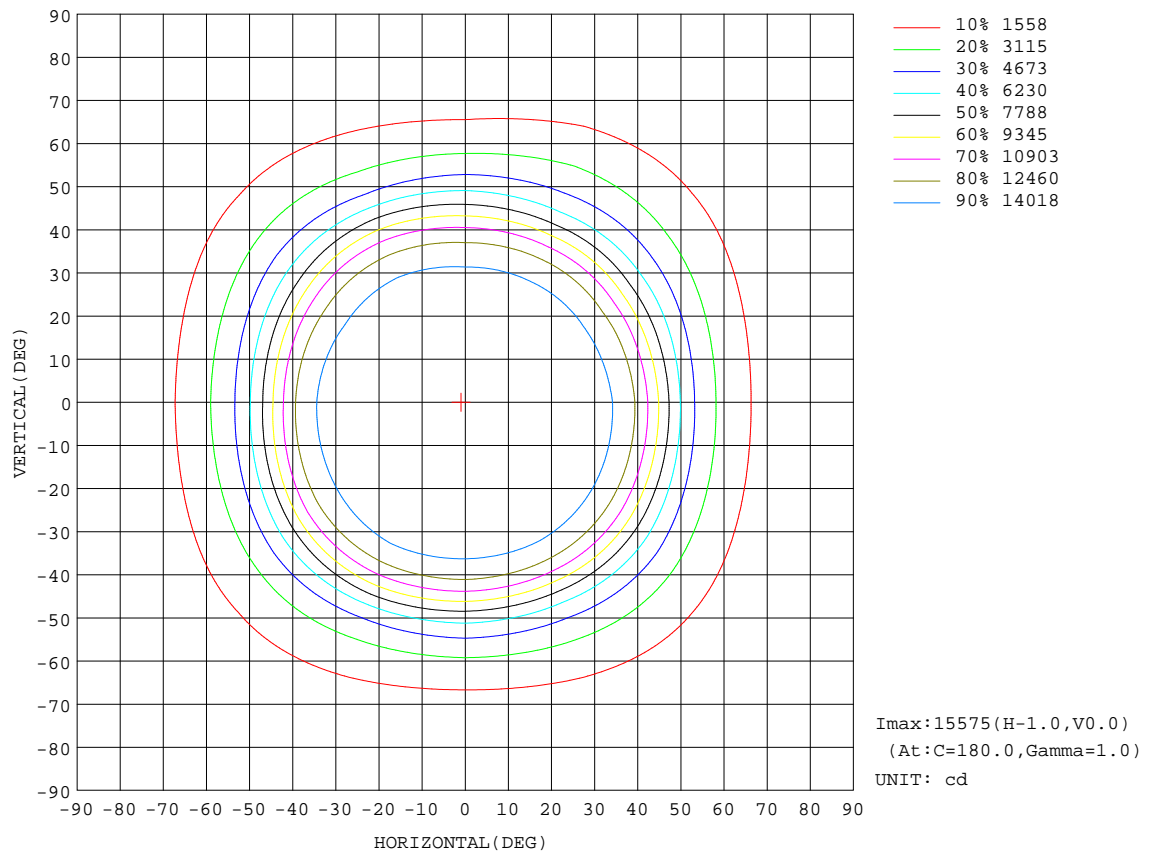
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	67	57	51	66	57	51	65	57	51	45
0.80	77	68	62	76	67	61	75	67	61	55
1.00	85	76	71	84	76	70	82	77	70	64
1.25	92	83	78	90	83	77	88	81	77	71
1.50	96	88	83	94	88	82	92	86	81	75
2.00	101	95	90	100	94	89	97	92	88	81
2.50	104	98	94	102	97	93	99	95	91	84
3.00	107	102	98	105	100	96	101	97	94	87
4.00	110	105	102	108	104	101	104	101	98	90
5.00	112	108	105	109	106	103	105	102	100	92
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:DAMIN
Test Date:2022-03-21

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.267
Humidity:65.0%
Test Distance:6.900m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:231.5V I:1.019A P:233.2W PF:0.9888 Lamp Flux:34530.6x1 lm		
NAME: 270862	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:0.191	PROTECTION ANGLE:0.14



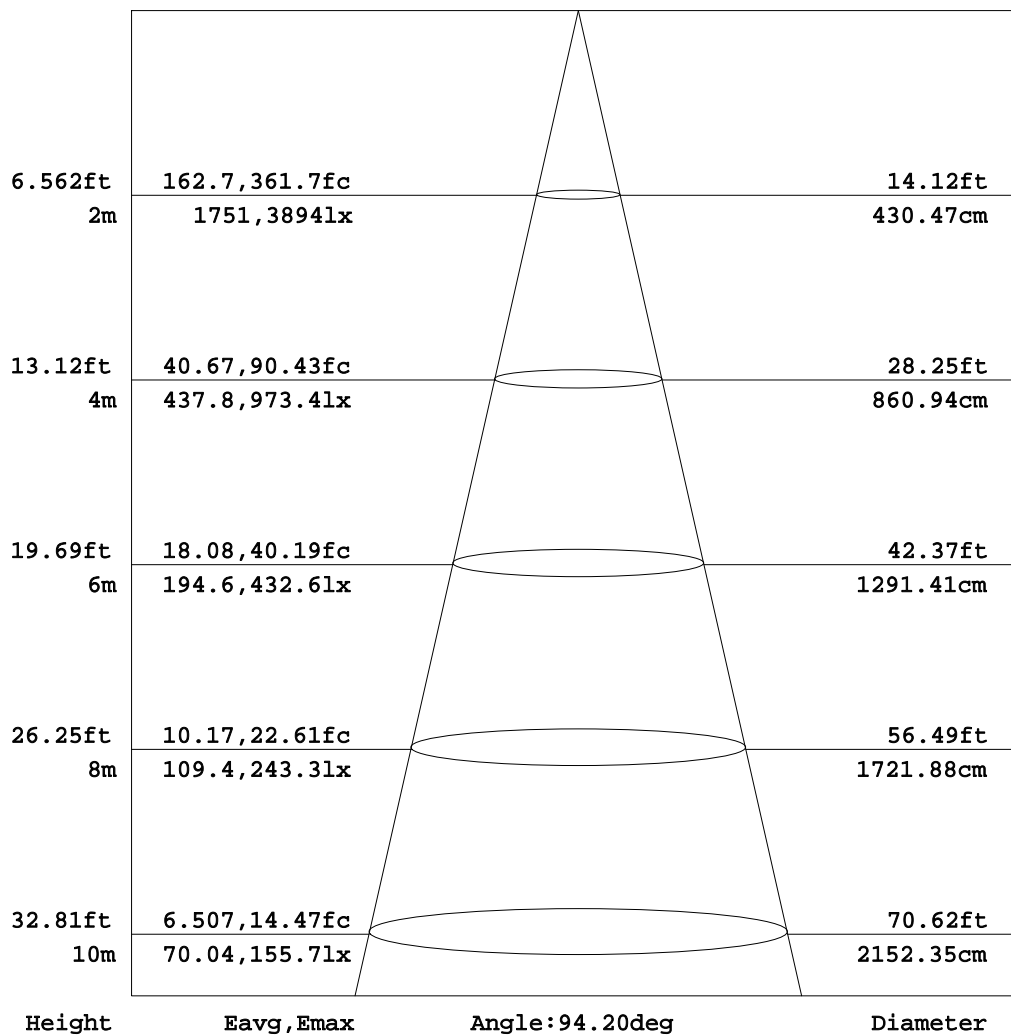
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2022-03-21

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.267
Humidity:65.0%
Test Distance:6.900m [K=1.0000]
Remarks:

AAI Figure

Test:U:231.5V I:1.019A P:233.2W PF:0.9888 Lamp Flux:34530.6x1 lm		
NAME: 270862	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:0.191	PROTECTION ANGLE:0.14

Flux out:27142 lm



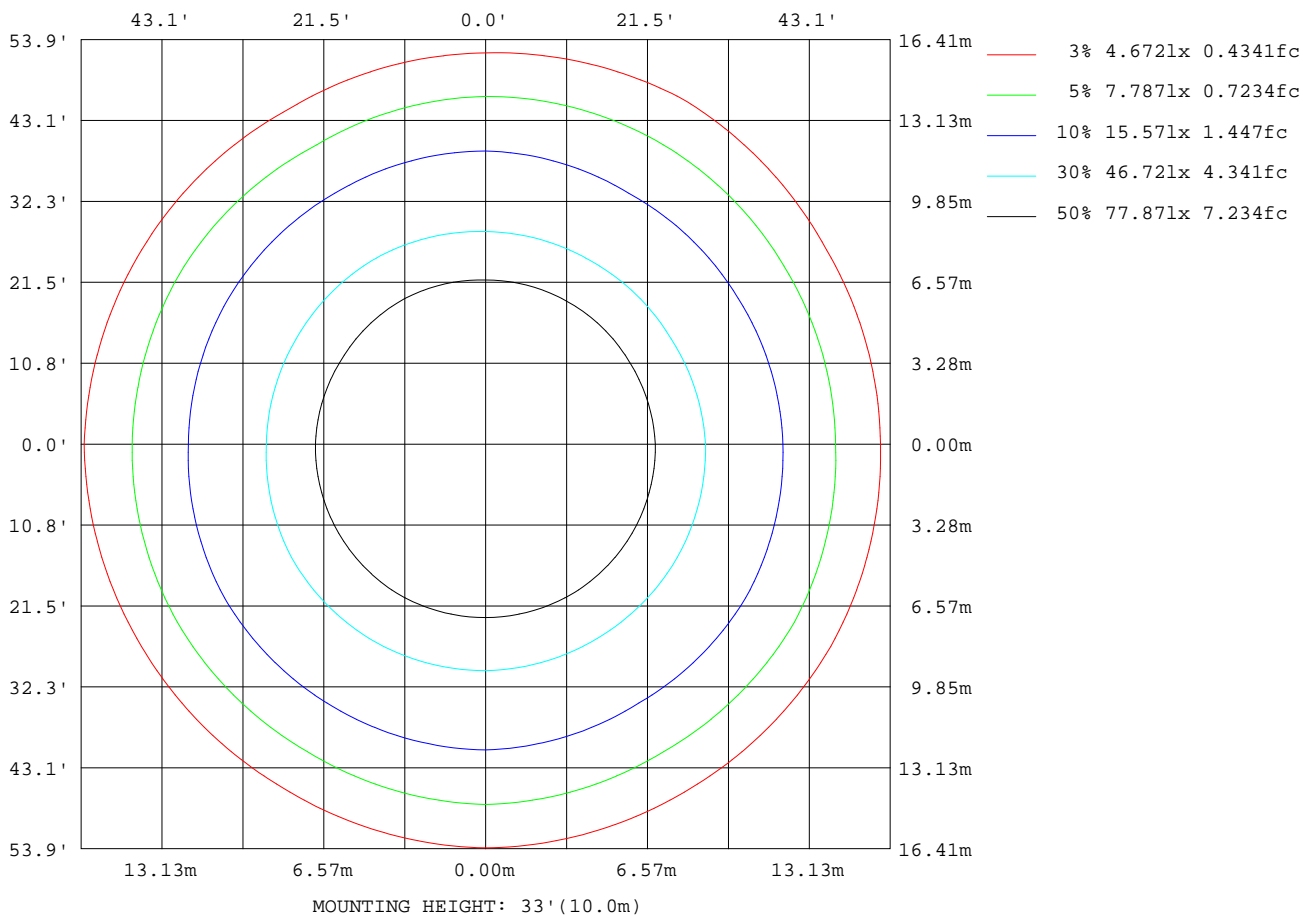
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2022-03-21

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.267
Humidity:65.0%
Test Distance:6.900m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

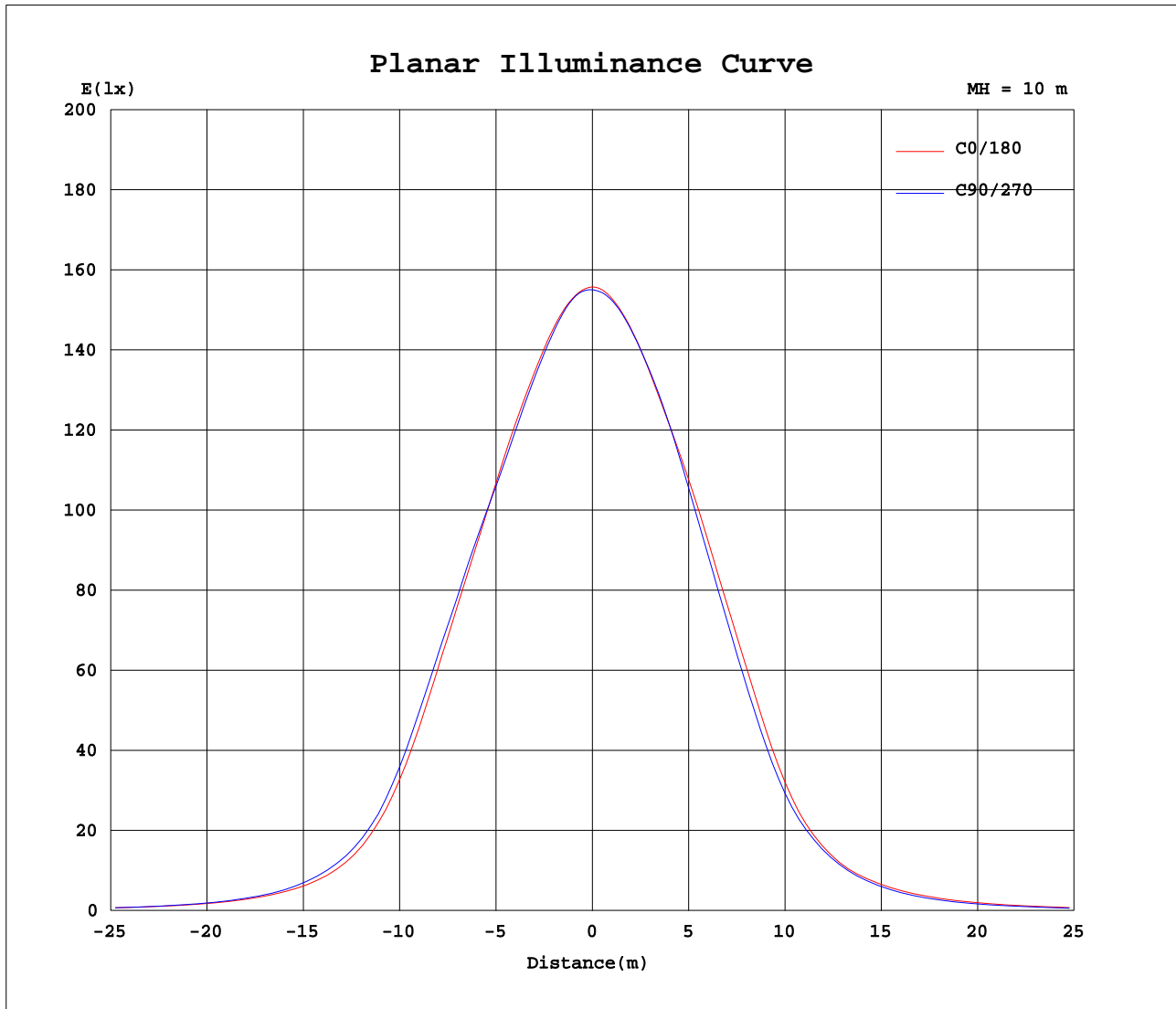
Test:U:231.5V I:1.019A P:233.2W PF:0.9888 Lamp Flux:34530.6x1 lm		
NAME: 270862	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:0.191	PROTECTION ANGLE:0.14



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2022-03-21

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.267
Humidity: 65.0%
Test Distance: 6.900m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2022-03-21

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.267
Humidity: 65.0%
Test Distance: 6.900m [K=1.0000]
Remarks:

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γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.267
Humidity:65.0%
Test Distance:6.900m [K=1.0000]
Remarks:

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