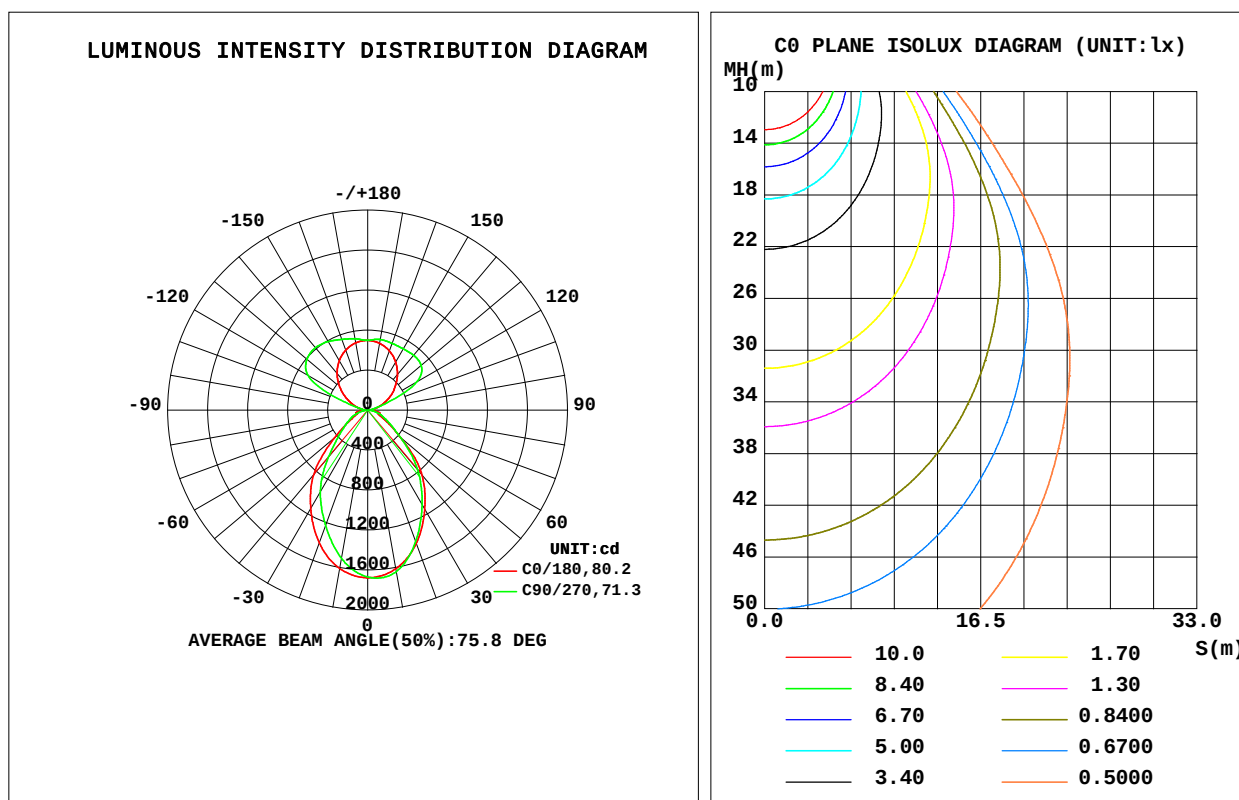


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.6V I:0.1850A P:40.10W PF:0.9840 Lamp Flux:5334.88x1 lm		
NAME: 40W 4573 拉线	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 133.04 lm/W			
MODEL		I _{max} (cd)	1684	S/MH(C0/180)	1.05
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	1.02
RATED VOLTAGE(V)		TOTAL FLUX(lm)	5334.9	η UP, DN(C0-180)	25.8, 24.4
NOMINAL FLUX(lm)	5334.88	CIE CLASS	DIFFUSE	η UP, DN(C180-360)	22.8, 27.0
LAMPS INSIDE	1	η up(%)	48.6	CIBSE SHR NOM	1.00
TEST VOLTAGE(V)		η down(%)	51.4	CIBSE SHR MAX	1.15



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators:
Test Date:

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System: EVERFINE G0-2000_V1 SYSTEM V2.0.295T
Humidity: 65.0%
Test Distance: 9.460m [K=1.0571]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	ϕ zone	ϕ total	%lum, lamp
5	1660	1632	1611	1626	1661	1678	1683	1677	0- 5	39.77	39.77	0.75, 0.75
10	1610	1551	1509	1545	1613	1639	1641	1643	5- 10	116.2	155.9	2.92, 2.92
15	1528	1439	1375	1433	1532	1553	1541	1563	10- 15	183.2	339.1	6.36, 6.36
20	1416	1308	1232	1304	1421	1428	1403	1445	15- 20	235.8	575.0	10.8, 10.8
25	1283	1169	1091	1165	1288	1280	1248	1301	20- 25	271.9	846.9	15.9, 15.9
30	1141	1029	950.4	1026	1143	1126	1091	1148	25- 30	291.7	1139	21.3, 21.3
35	996.9	877.3	784.5	881.3	998.1	974.5	934.2	994.9	30- 35	295.6	1434	26.9, 26.9
40	840.3	695.9	608.4	703.6	844.7	819.8	779.2	843.8	35- 40	282.8	1717	32.2, 32.2
45	638.4	496.8	400.0	510.3	654.8	627.1	604.5	669.3	40- 45	249.2	1966	36.9, 36.9
50	434.5	349.5	357.1	359.0	435.6	433.6	432.2	475.9	45- 50	198.3	2164	40.6, 40.6
55	294.0	260.0	282.0	267.0	297.9	294.3	319.6	327.6	50- 55	150.7	2315	43.4, 43.4
60	200.3	202.3	224.8	206.1	200.0	208.1	239.2	231.0	55- 60	115.7	2431	45.6, 45.6
65	150.1	170.6	178.7	170.4	143.4	162.7	182.1	176.1	60- 65	91.58	2522	47.3, 47.3
70	123.2	148.4	133.8	145.6	115.1	130.9	140.0	140.2	65- 70	76.34	2599	48.7, 48.7
75	123.8	112.7	88.12	109.2	116.2	106.5	92.62	113.3	70- 75	63.66	2662	49.9, 49.9
80	95.84	64.09	40.78	59.96	87.24	65.82	53.21	74.34	75- 80	47.43	2710	50.8, 50.8
85	47.55	23.43	12.71	20.62	44.50	21.64	13.97	28.89	80- 85	24.65	2735	51.3, 51.3
90	7.204	23.68	15.71	10.93	4.997	12.62	8.079	15.15	85- 90	8.001	2743	51.4, 51.4
95	29.78	55.15	35.61	36.30	21.82	24.45	23.88	36.01	90- 95	11.33	2754	51.6, 51.6
100	63.80	164.1	63.05	116.1	53.28	80.05	44.45	102.8	95-100	30.80	2785	52.2, 52.2
105	104.8	331.0	114.4	276.6	93.61	220.6	83.53	250.2	100-105	73.50	2858	53.6, 53.6
110	151.6	460.5	261.8	436.9	140.2	347.8	177.6	381.9	105-110	130.2	2988	56, 56
115	197.3	532.5	511.2	524.7	192.3	421.0	374.4	464.4	110-115	181.7	3170	59.4, 59.4
120	252.4	580.5	687.0	574.2	248.5	466.8	569.0	512.7	115-120	221.8	3392	63.6, 63.6
125	309.8	616.9	759.3	609.1	307.0	499.6	658.9	545.2	120-125	241.1	3633	68.1, 68.1
130	367.9	645.4	793.7	635.3	355.2	527.3	698.5	570.6	125-130	245.0	3878	72.7, 72.7
135	424.4	665.8	811.2	654.3	411.4	552.7	714.3	592.3	130-135	240.3	4118	77.2, 77.2
140	478.2	680.8	815.8	668.0	464.7	578.1	717.1	613.7	135-140	229.5	4348	81.5, 81.5
145	527.2	691.8	808.4	678.0	514.3	603.4	713.3	635.3	140-145	213.7	4562	85.5, 85.5
150	571.2	700.3	793.0	686.3	559.4	628.3	710.3	655.9	145-150	193.7	4755	89.1, 89.1
155	609.4	707.1	773.0	693.5	599.5	652.3	710.0	675.6	150-155	170.2	4925	92.3, 92.3
160	640.6	712.5	754.0	701.1	632.9	674.6	712.4	693.2	155-160	143.8	5069	95, 95
165	666.4	716.1	739.2	707.3	660.4	691.8	716.7	706.7	160-165	114.9	5184	97.2, 97.2
170	684.8	713.4	725.7	708.0	680.5	701.3	718.5	711.9	165-170	83.58	5268	98.7, 98.7
175	695.8	704.1	708.1	701.5	693.3	699.5	709.7	706.4	170-175	50.46	5318	99.7, 99.7
180	698.5	698.5	698.5	698.5	698.5	698.5	698.5	698.5	175-180	16.75	5335	100, 100
DEG	LUMINOUS INTENSITY:cd									UNIT: lm		

Conical surface Flux(90deg): 1966.2 lm

%lum = 36.9%

%lamp = 36.9%

Conical surface Flux(120deg): 2430.8 lm

%lum = 45.6%

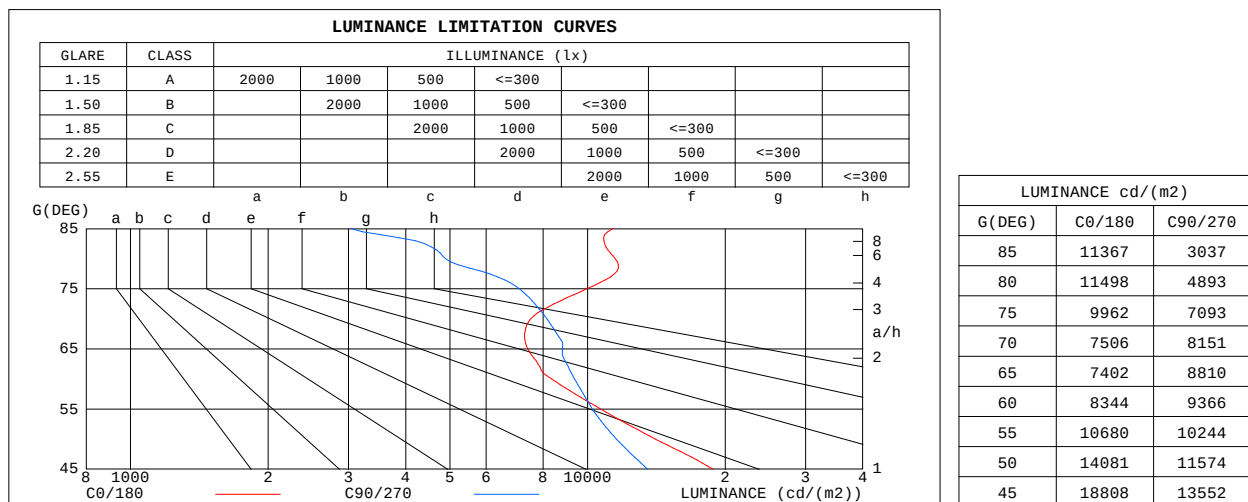
%lamp = 45.6%

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature: 25.3DEG
 Operators:
 Test Date:

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE G0-2000_V1 SYSTEM V2.0.295T
 Humidity: 65.0%
 Test Distance: 9.460m [K=1.0571]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:220.6V I:0.1850A P:40.10W PF:0.9840 Lamp Flux:5334.88x1 lm		
NAME: 40W 4573 拉线	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



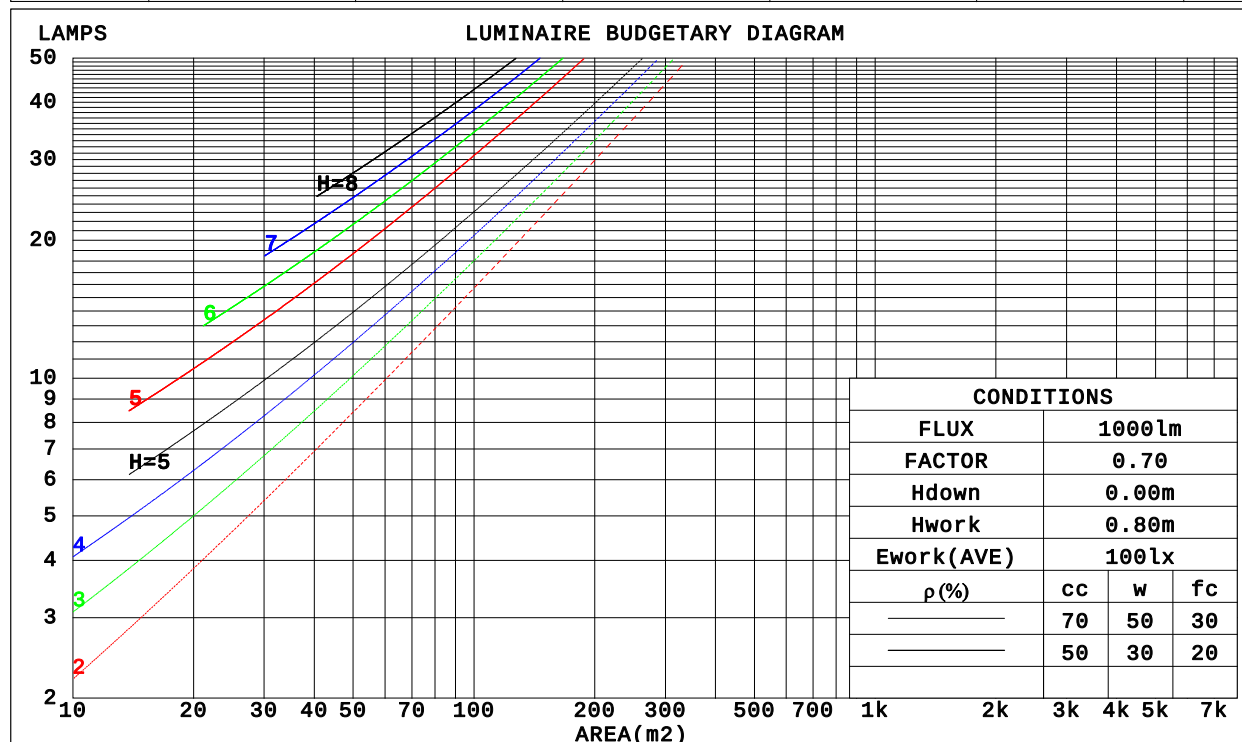
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators:
Test Date:

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System: EVERFINE G0-2000_V1 SYSTEM V2.0.295T
Humidity: 65.0%
Test Distance: 9.460m [K=1.0571]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.6V I:0.1850A P:40.10W PF:0.9840 Lamp Flux:5334.88x1 lm		
NAME: 40W 4573 拉线	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	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	RCR:Room Cavity Ratio			Coefficients of Utilization(CU)												
0.0	1.07	1.07	1.07	.99	.99	.99	.84	.84	.84	.70	.70	.70	.57	.57	.57	.51
1.0	.95	.91	.88	.88	.85	.82	.75	.73	.71	.63	.62	.60	.52	.51	.50	.45
2.0	.84	.78	.74	.78	.73	.69	.67	.63	.60	.57	.54	.52	.47	.45	.44	.39
3.0	.75	.68	.63	.70	.64	.59	.60	.56	.52	.51	.48	.45	.43	.40	.39	.35
4.0	.67	.60	.54	.63	.56	.51	.54	.49	.45	.46	.43	.40	.39	.36	.34	.31
5.0	.60	.53	.47	.56	.50	.45	.49	.44	.40	.42	.38	.35	.36	.33	.31	.28
6.0	.55	.47	.42	.51	.44	.40	.45	.39	.35	.39	.35	.31	.33	.30	.28	.25
7.0	.50	.42	.37	.47	.40	.35	.41	.36	.32	.35	.31	.28	.30	.27	.25	.22
8.0	.46	.38	.33	.43	.36	.32	.38	.32	.29	.33	.29	.26	.28	.25	.23	.20
9.0	.42	.35	.30	.39	.33	.29	.35	.30	.26	.30	.26	.23	.26	.23	.21	.19
10.0	.39	.32	.27	.36	.30	.26	.32	.27	.24	.28	.24	.21	.24	.21	.19	.17



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature: 25.3DEG
 Operators:
 Test Date:

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000_V1 SYSTEM V2.0.295T
 Humidity: 65.0%
 Test Distance: 9.460m [K=1.0571]
 Remarks:

WEC AND CCEC

Test:U:220.6V I:0.1850A P:40.10W PF:0.9840 Lamp Flux:5334.88x1 lm					
NAME: 40W 4573 拉线			TYPE:		WEIGHT:
SPEC.:			DIM.:		SERIAL No.:
MFR.:			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	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.257	.146	.046	.235	.134	.043	.195	.112	.036	.158	.091	.029	.123	.071	.023		
2.0	.240	.131	.040	.220	.121	.037	.183	.102	.032	.150	.084	.026	.118	.067	.021		
3.0	.223	.119	.036	.205	.110	.033	.172	.093	.028	.141	.077	.024	.112	.062	.019		
4.0	.207	.108	.032	.191	.100	.030	.160	.085	.025	.132	.071	.021	.105	.057	.017		
5.0	.193	.099	.029	.179	.092	.027	.150	.078	.023	.124	.065	.019	.099	.053	.016		
6.0	.181	.091	.026	.167	.084	.024	.141	.072	.021	.116	.061	.018	.094	.049	.015		
7.0	.170	.084	.024	.157	.078	.022	.133	.067	.019	.110	.056	.016	.089	.046	.014		
8.0	.159	.078	.022	.148	.073	.021	.125	.062	.018	.104	.053	.015	.084	.043	.013		
9.0	.150	.073	.020	.139	.068	.019	.118	.058	.017	.098	.049	.014	.080	.040	.012		
10.0	.142	.068	.019	.132	.064	.018	.112	.055	.015	.093	.046	.013	.076	.038	.011		

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	.561	.561	.561	.479	.479	.479	.327	.327	.327	.188	.188	.188	.060	.060	.060	
1.0	.550	.530	.512	.471	.455	.441	.322	.313	.305	.185	.181	.177	.059	.058	.057	
2.0	.541	.508	.480	.463	.437	.415	.318	.303	.289	.183	.176	.170	.059	.057	.055	
3.0	.533	.492	.459	.457	.424	.398	.314	.295	.279	.181	.172	.164	.058	.056	.054	
4.0	.526	.480	.444	.451	.414	.386	.310	.289	.272	.180	.169	.161	.058	.055	.053	
5.0	.519	.470	.433	.446	.407	.377	.307	.284	.266	.178	.167	.158	.057	.054	.052	
6.0	.513	.462	.426	.441	.400	.371	.304	.280	.262	.177	.165	.156	.057	.054	.051	
7.0	.507	.456	.420	.436	.395	.366	.301	.277	.259	.175	.163	.154	.057	.053	.051	
8.0	.502	.451	.416	.432	.391	.362	.299	.275	.257	.174	.162	.153	.056	.053	.051	
9.0	.497	.446	.412	.428	.387	.360	.296	.272	.255	.173	.161	.152	.056	.053	.050	
10.0	.492	.442	.410	.424	.384	.357	.294	.270	.254	.172	.160	.152	.056	.053	.050	

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000_V1 SYSTEM V2.0.295T
 Humidity:65.0%
 Test Distance:9.460m [K=1.0571]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:220.6V I:0.1850A P:40.10W PF:0.9840 Lamp Flux:5334.88x1 lm											
NAME: 40W 4573 拉线					TYPE:			WEIGHT:			
SPEC.:					DIM.:			SERIAL No.:			
MFR.:					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	16.7	17.6	17.6	18.4	19.5	16.4	17.2	17.2	18.1	19.1	
	3H	17.5	18.3	18.4	19.2	20.2	17.4	18.2	18.3	19.0	20.1
	4H	18.2	18.9	19.0	19.8	20.9	17.8	18.5	18.7	19.4	20.5
	6H	18.9	19.6	19.8	20.5	21.6	17.9	18.6	18.8	19.5	20.6
	8H	19.1	19.8	20.0	20.7	21.8	17.9	18.6	18.8	19.5	20.6
	12H	19.3	19.9	20.2	20.8	22.0	17.9	18.5	18.8	19.4	20.6
4H	2H	16.8	17.6	17.7	18.5	19.6	16.5	17.3	17.4	18.2	19.3
	3H	18.0	18.6	18.9	19.5	20.6	17.9	18.5	18.8	19.4	20.5
	4H	18.8	19.3	19.7	20.3	21.4	18.4	18.9	19.3	19.9	21.0
	6H	19.7	20.1	20.6	21.1	22.3	18.6	19.1	19.6	20.0	21.3
	8H	20.0	20.4	20.9	21.4	22.6	18.6	19.1	19.6	20.0	21.3
	12H	20.2	20.6	21.2	21.5	22.8	18.6	19.0	19.6	20.0	21.2
8H	4H	18.9	19.4	19.9	20.3	21.6	18.6	19.0	19.5	20.0	21.2
	6H	19.9	20.3	20.9	21.3	22.6	18.9	19.3	19.9	20.3	21.5
	8H	20.3	20.6	21.3	21.6	22.9	19.0	19.3	20.0	20.3	21.6
	12H	20.6	20.9	21.6	21.9	23.2	19.0	19.2	20.0	20.3	21.6
12H	4H	18.9	19.3	19.9	20.3	21.5	18.6	19.0	19.5	19.9	21.2
	6H	19.9	20.2	20.9	21.2	22.5	18.9	19.2	19.9	20.2	21.5
	8H	20.3	20.6	21.3	21.6	22.9	19.0	19.3	20.0	20.3	21.6
Variations with the observer position at spacings:											
S = 1.0H	+ 0.3 / - 0.4					+ 0.4 / - 0.4					
1.5H	+ 0.4 / - 0.3					+ 0.4 / - 0.3					
2.0H	+ 1.1 / - 0.5					+ 0.6 / - 0.3					

CIE Pub.117 Corrected 5335 lm Total Lamp Luminous Flux.(8log(F/F0) = 5.8)

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000_V1 SYSTEM V2.0.295T
 Humidity:65.0%
 Test Distance:9.460m [K=1.0571]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:220.6V I:0.1850A P:40.10W PF:0.9840 Lamp Flux:5334.88x1 lm		
NAME: 40W 4573 拉线	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

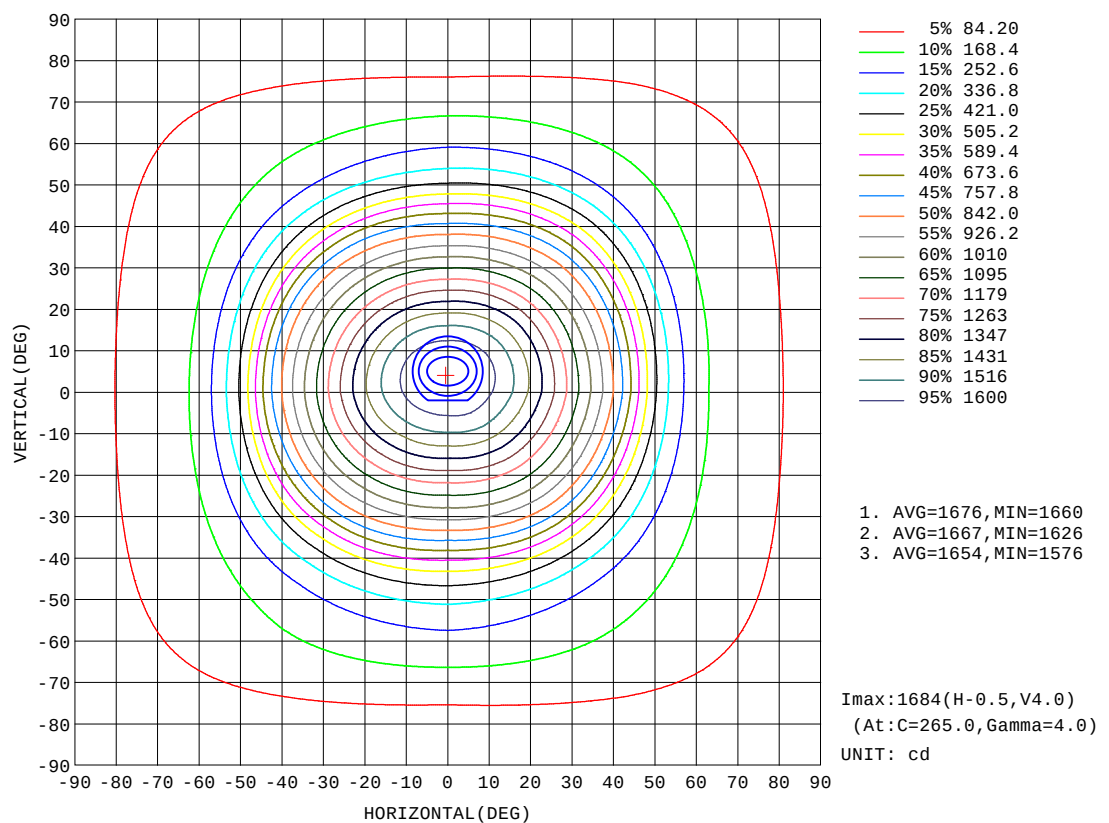
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	58	47	40	54	44	38	47	39	34	23
0.80	67	55	48	62	52	46	53	46	41	27
1.00	73	63	55	68	59	52	58	51	46	30
1.25	79	69	62	73	65	59	62	56	52	34
1.50	83	74	68	77	69	64	65	60	56	36
2.00	89	81	76	82	76	71	70	66	62	40
2.50	92	86	80	85	80	75	72	69	65	41
3.00	94	89	84	87	82	78	74	71	68	43
4.00	98	93	89	90	86	83	76	74	71	45
5.00	99	96	92	92	89	86	78	76	74	46
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Ceiling Mounted					SHRNOM = 1.00		

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE G0-2000_V1 SYSTEM V2.0.295T
 Humidity:65.0%
 Test Distance:9.460m [K=1.0571]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:220.6V I:0.1850A P:40.10W PF:0.9840 Lamp Flux:5334.88x1 lm		
NAME: 40W 4573 拉线	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

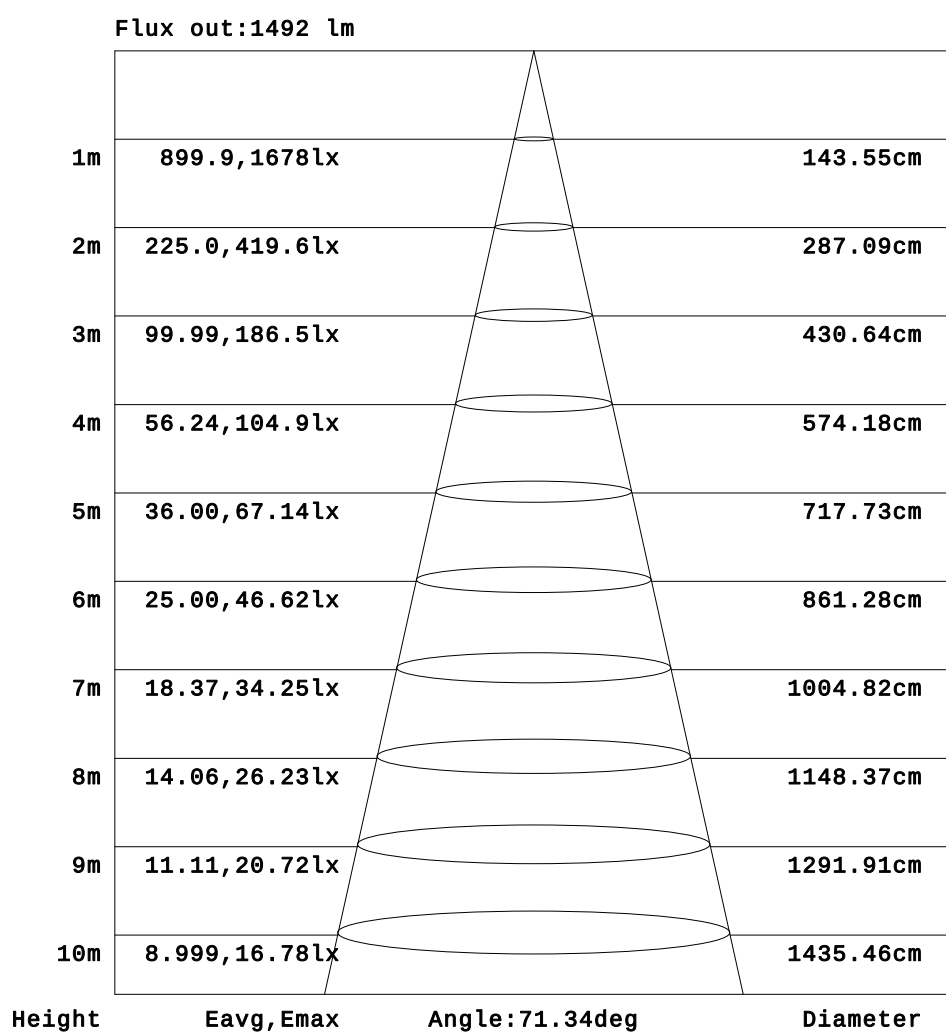


C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE G0-2000_V1 SYSTEM V2.0.295T
Humidity:65.0%
Test Distance:9.460m [K=1.0571]
Remarks:

AAI Figure

Test:U:220.6V I:0.1850A P:40.10W PF:0.9840 Lamp Flux:5334.88x1 lm		
NAME: 40W 4573 拉线	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



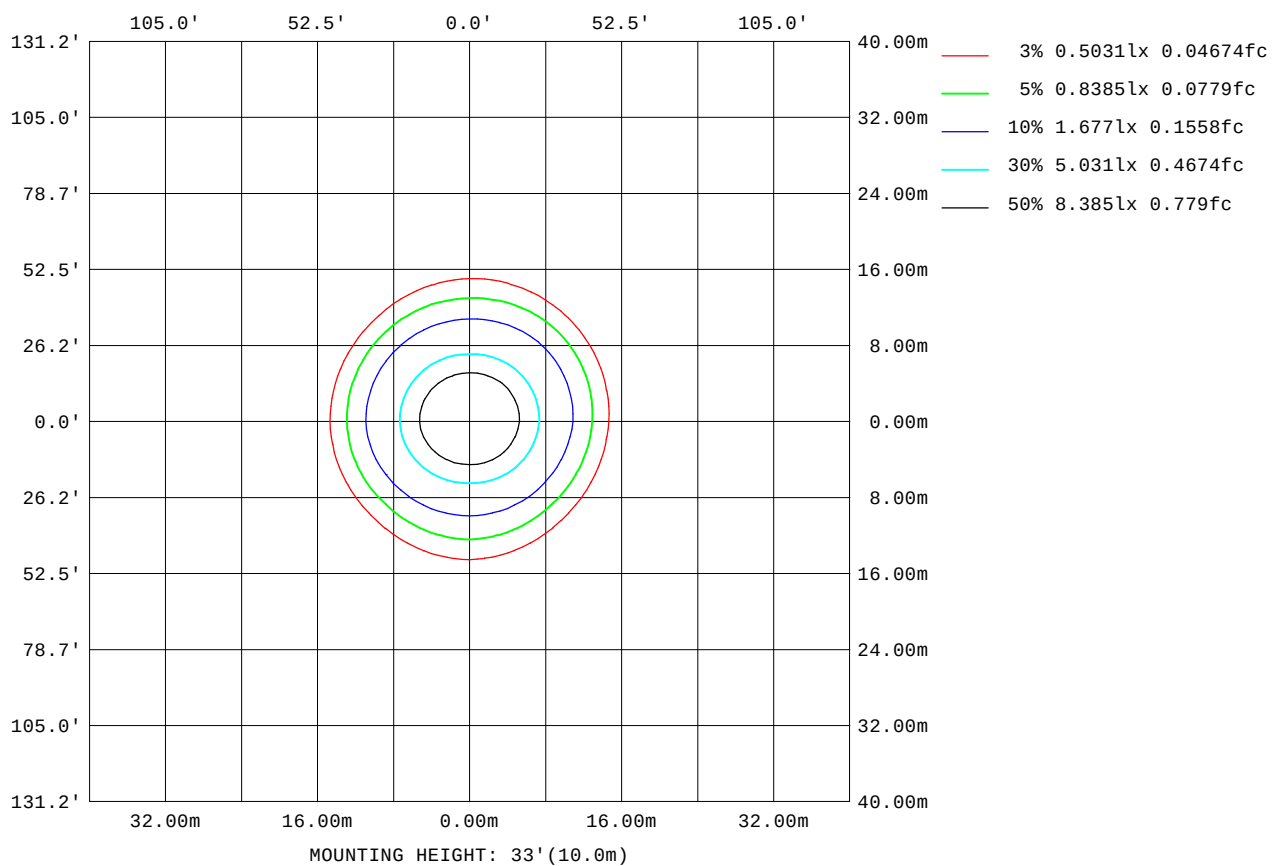
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature: 25.3DEG
 Operators:
 Test Date:

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE G0-2000_V1 SYSTEM V2.0.295T
 Humidity: 65.0%
 Test Distance: 9.460m [K=1.0571]
 Remarks:

ISOLUX DIAGRAM

Test:U:220.6V I:0.1850A P:40.10W PF:0.9840 Lamp Flux:5334.88x1 lm		
NAME: 40W 4573 拉线	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators:
Test Date:

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System: EVERFINE G0-2000_V1 SYSTEM V2.0.295T
Humidity: 65.0%
Test Distance: 9.460m [K=1.0571]
Remarks:

LED Avg.L Report

Test:U:220.6V I:0.1850A P:40.10W PF:0.9840 Lamp Flux:5334.88x1 lm		
NAME: 40W 4573 拉线	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

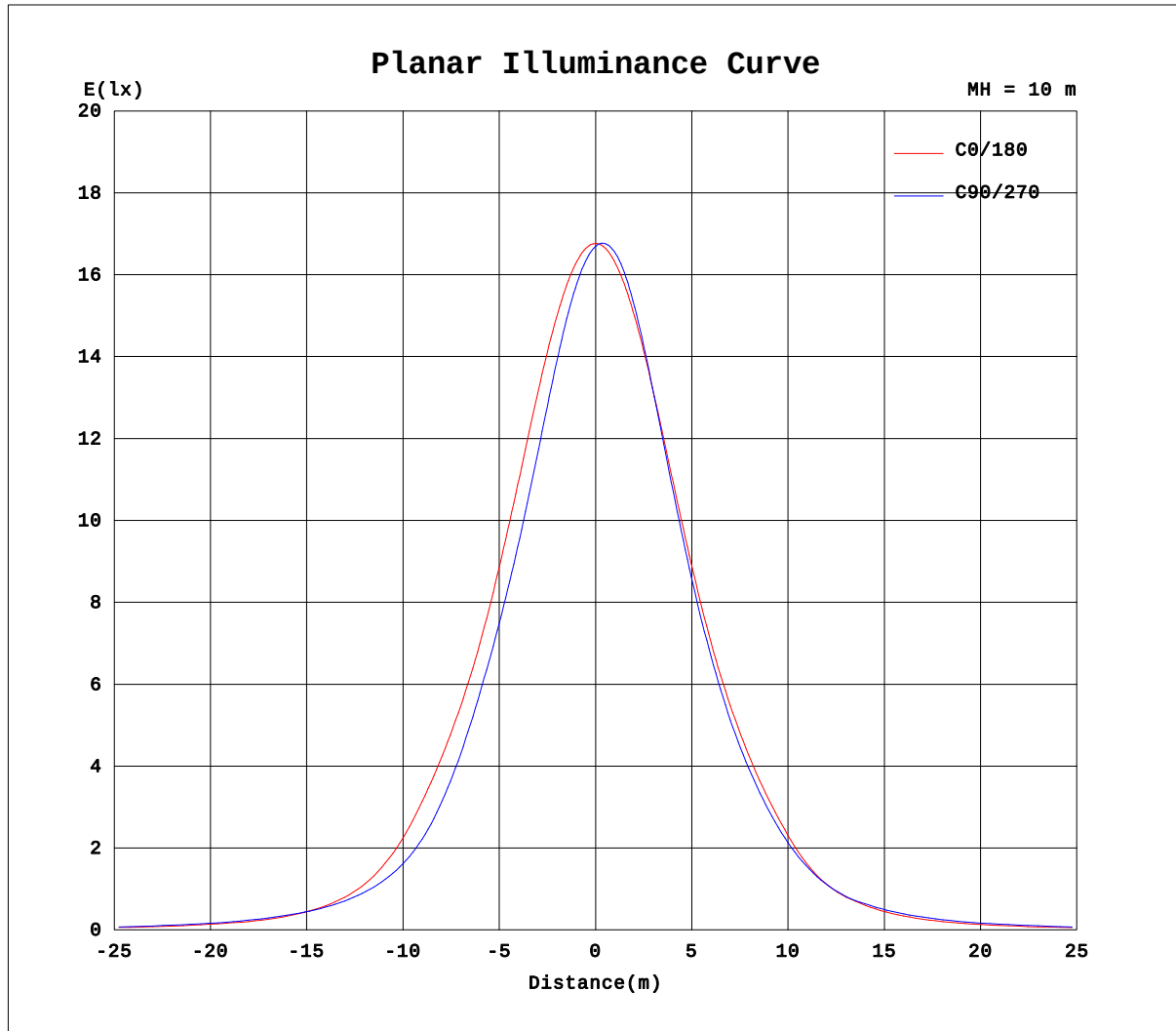
AvgL	cd/m2
L_0~180(65)av	7235
L_0~180(75)av	9660
L_0~180(85)av	11001
L_90~270(65)av	8894
L_90~270(75)av	7275
L_90~270(85)av	3188
L_45(65)av	8377
L_45(75)av	8889
L_45(85)av	5652

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE G0-2000_V1 SYSTEM V2.0.295T
Humidity:65.0%
Test Distance:9.460m [K=1.0571]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators:
Test Date:

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System: EVERFINE G0-2000_V1 SYSTEM V2.0.295T
Humidity: 65.0%
Test Distance: 9.460m [K=1.0571]
Remarks: