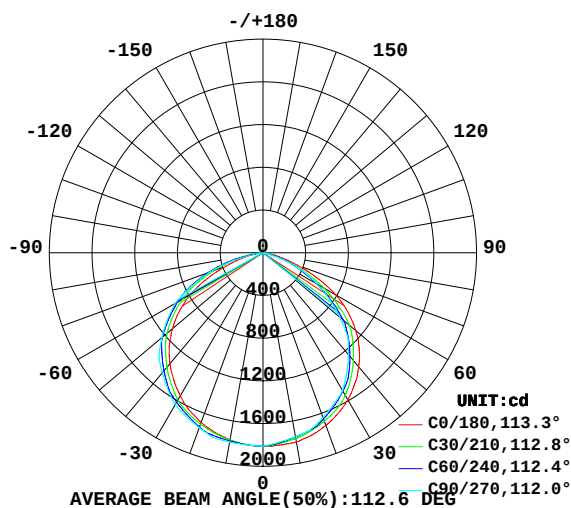


LUMINAIRE PHOTOMETRIC TEST REPORT

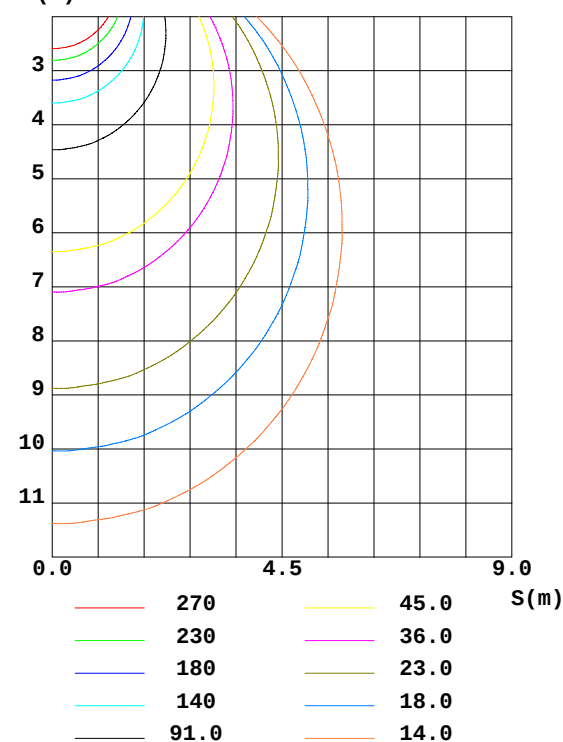
Test:U:230.1V I:0.2280A P:52.00W PF:0.9900 Lamp Flux:4940.06x1 lm		
NAME: UK50w感应E一体化	TYPE: 试生产02	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 95.00 lm/W			
MODEL	UK50w感应E一体化	I _{max} (cd)	1815	S/MH(C0/180)	1.30
NOMINAL POWER(W)	52	LOR(%)	100.0	S/MH(C90/270)	1.23
RATED VOLTAGE(V)	230.1	TOTAL FLUX(lm)	4940.1	η UP, DN(C0-180)	0.0, 45.7
NOMINAL FLUX(lm)	4940.06	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0, 54.3
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	230.1	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: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2018-04-24

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.266
 Humidity: 65.0%
 Test Distance: 10.110m [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
5	1807	1787	1780	1785	1803	1802	1806	1806	0- 5	43.11	43.11	0.87,0.87
10	1800	1757	1749	1750	1780	1785	1799	1795	5- 10	127.7	170.9	3.46,3.46
15	1767	1720	1717	1709	1740	1762	1793	1779	10- 15	208.9	379.7	7.69,7.69
20	1721	1673	1642	1659	1691	1735	1743	1752	15- 20	283.8	663.6	13.4,13.4
25	1662	1597	1567	1580	1630	1671	1694	1696	20- 25	349.3	1013	20.5,20.5
30	1588	1511	1492	1489	1547	1598	1644	1625	25- 30	404.3	1417	28.7,28.7
35	1498	1414	1369	1392	1457	1520	1556	1550	30- 35	446.4	1863	37.7,37.7
40	1394	1305	1246	1284	1355	1432	1467	1461	35- 40	472.3	2336	47.3,47.3
45	1274	1156	1123	1143	1242	1316	1379	1338	40- 45	482.6	2818	57.1,57.1
50	1135	999.7	942.1	998.8	1106	1194	1236	1212	45- 50	475.2	3294	66.7,66.7
55	970.2	834.3	760.7	848.7	956.4	1073	1093	1078	50- 55	445.5	3739	75.7,75.7
60	785.2	617.5	579.4	640.3	787.7	898.8	949.7	886.7	55- 60	395.4	4134	83.7,83.7
65	557.8	403.6	410.0	433.0	579.6	719.3	736.9	691.7	60- 65	324.6	4459	90.3,90.3
70	345.7	235.7	240.6	265.3	371.0	530.4	524.2	496.7	65- 70	238.8	4698	95.1,95.1
75	182.4	125.9	71.27	146.8	205.9	343.2	311.4	311.5	70- 75	152.4	4850	98.2,98.2
80	79.99	30.82	0	41.56	95.23	152.6	0	129.2	75- 80	72.79	4923	99.7,99.7
85	23.85	0	0	0	31.66	0	0	0	80- 85	15.69	4939	100,100
90	0.5896	0	0	0	0.5386	0	0	0	85- 90	1.326	4940	100,100
95									90- 95			
100									95-100			
105									100-105			
110									105-110			
115									110-115			
120									115-120			
125									120-125			
130									125-130			
135									130-135			
140									135-140			
145									140-145			
150									145-150			
155									150-155			
160									155-160			
165									160-165			
170									165-170			
175									170-175			
180									175-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

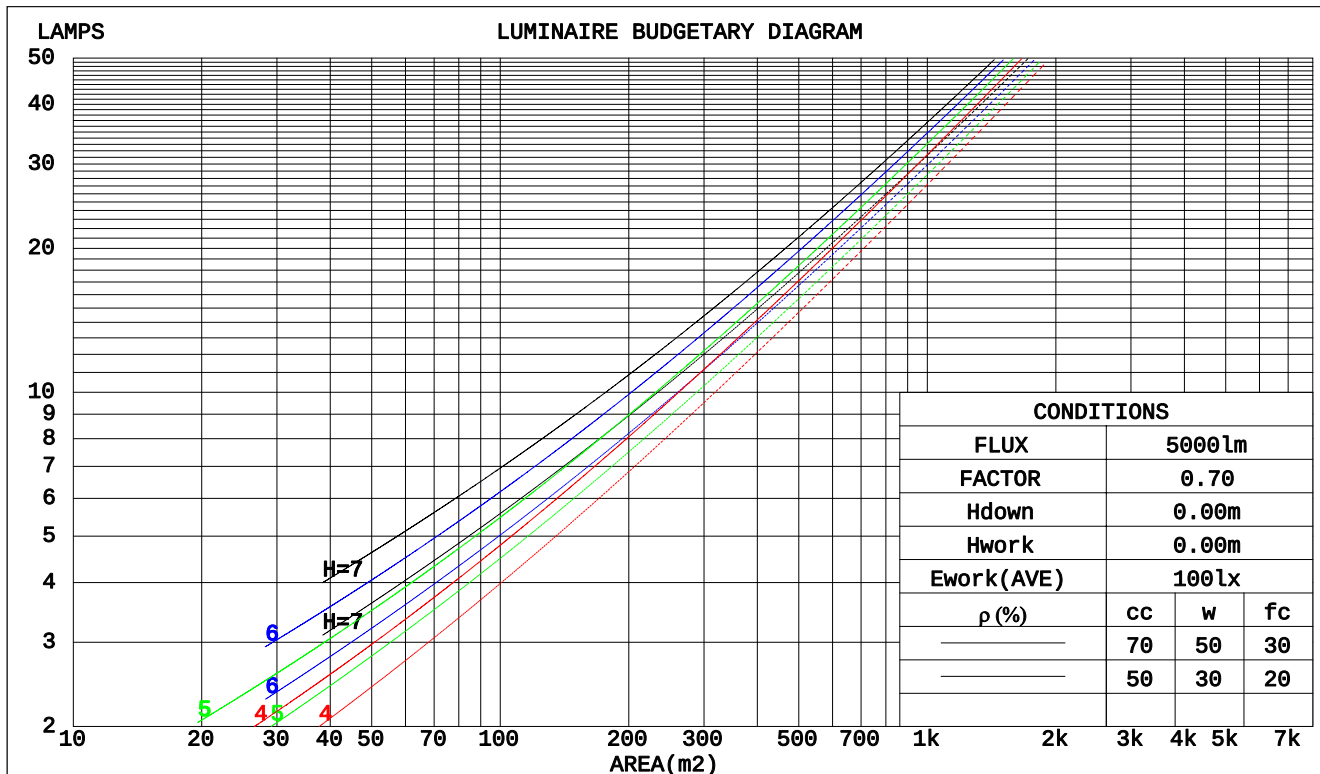
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2018-04-24

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.266
 Humidity:65.0%
 Test Distance:10.110m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:230.1V I:0.2280A P:52.00W PF:0.9900 Lamp Flux:4940.06x1 lm		
NAME: UK50w感应E一体化	TYPE:试生产02	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION 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	1.19	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	1.00
1.0	1.05	1.02	.98	1.03	.99	.96	.99	.96	.93	.95	.93	.91	.92	.90	.88	.86
2.0	.92	.86	.81	.91	.85	.80	.87	.82	.78	.84	.80	.76	.81	.77	.74	.72
3.0	.82	.74	.67	.80	.73	.67	.77	.71	.66	.74	.69	.65	.72	.67	.63	.61
4.0	.72	.64	.57	.71	.63	.57	.69	.62	.56	.66	.60	.55	.64	.59	.55	.53
5.0	.65	.56	.49	.64	.55	.49	.61	.54	.49	.59	.53	.48	.58	.52	.48	.45
6.0	.58	.49	.43	.57	.49	.43	.55	.48	.43	.54	.47	.42	.52	.46	.42	.40
7.0	.53	.44	.38	.52	.44	.38	.50	.43	.38	.49	.42	.37	.48	.42	.37	.35
8.0	.48	.40	.34	.47	.39	.34	.46	.39	.34	.45	.38	.33	.44	.38	.33	.31
9.0	.44	.36	.31	.44	.36	.30	.42	.35	.30	.41	.35	.30	.40	.34	.30	.28
10.0	.41	.33	.28	.40	.33	.28	.39	.32	.27	.38	.32	.27	.37	.31	.27	.25



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2018-04-24

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.266
 Humidity:65.0%
 Test Distance:10.110m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:230.1V I:0.2280A P:52.00W PF:0.9900 Lamp Flux:4940.06x1 lm									
NAME: UK50w感应E一体化					TYPE:试生产02			WEIGHT:	
DIM.:					SPEC.:			SERIAL No.:	
MFR.:					SUR.:			PROTECTION 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	.280	.159	.050	.273	.156	.049	.260	.149	.048	.248	.143	.046	.237	.137	.044		
2.0	.272	.149	.046	.266	.146	.045	.254	.141	.044	.244	.137	.043	.234	.132	.042		
3.0	.256	.136	.041	.251	.134	.040	.241	.130	.040	.231	.127	.039	.222	.123	.038		
4.0	.239	.124	.037	.234	.123	.036	.225	.120	.036	.217	.117	.035	.209	.114	.035		
5.0	.223	.114	.033	.219	.112	.033	.211	.110	.032	.203	.107	.032	.196	.105	.032		
6.0	.208	.104	.030	.204	.103	.030	.197	.101	.029	.190	.099	.029	.184	.097	.029		
7.0	.194	.096	.027	.191	.095	.027	.185	.093	.027	.179	.092	.027	.173	.090	.026		
8.0	.182	.089	.025	.179	.088	.025	.174	.087	.025	.168	.085	.025	.163	.084	.024		
9.0	.171	.083	.023	.169	.082	.023	.163	.081	.023	.159	.079	.023	.154	.078	.023		
10.0	.161	.077	.021	.159	.077	.021	.154	.076	.021	.150	.074	.021	.146	.073	.021		

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	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.178	.156	.137	.153	.134	.118	.104	.092	.081	.060	.053	.047	.019	.017	.015	
2.0	.170	.132	.100	.145	.114	.087	.100	.079	.061	.057	.046	.035	.018	.015	.012	
3.0	.162	.114	.076	.139	.099	.066	.095	.068	.046	.055	.040	.027	.018	.013	.009	
4.0	.154	.101	.060	.132	.087	.052	.091	.061	.037	.053	.036	.022	.017	.012	.007	
5.0	.147	.090	.048	.126	.078	.042	.087	.055	.030	.050	.032	.018	.016	.010	.006	
6.0	.140	.082	.040	.121	.071	.035	.083	.050	.025	.048	.029	.015	.016	.010	.005	
7.0	.134	.075	.034	.115	.065	.029	.080	.046	.021	.046	.027	.012	.015	.009	.004	
8.0	.128	.069	.029	.110	.060	.025	.076	.042	.018	.044	.025	.011	.014	.008	.004	
9.0	.122	.064	.026	.105	.056	.022	.073	.039	.016	.042	.023	.009	.014	.008	.003	
10.0	.116	.060	.023	.100	.052	.020	.069	.037	.014	.041	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2018-04-24

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.266
 Humidity:65.0%
 Test Distance:10.110m [K=1.0000]
 Remarks:

Uncorrected UGR Table

Test:U:230.1V I:0.2280A P:52.00W PF:0.9900 Lamp Flux:4940.06x1 lm											
NAME: UK50w感应E一体化					TYPE:试生产02			WEIGHT:			
DIM.:					SPEC.:			SERIAL No.:			
MFR.:					SUR.:			PROTECTION 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	22.3	23.7	22.5	23.9	24.1	21.3	22.7	21.5	22.9	23.1
	3H	23.1	24.5	23.4	24.7	24.9	21.9	23.3	22.2	23.5	23.8
	4H	23.3	24.5	23.6	24.8	25.1	22.0	23.3	22.3	23.5	23.8
	6H	23.3	24.5	23.6	24.8	25.0	21.9	23.1	22.2	23.4	23.6
	8H	23.3	24.4	23.6	24.7	25.0	21.8	23.0	22.2	23.3	23.6
	12H	23.2	24.4	23.6	24.6	25.0	21.8	22.9	22.1	23.2	23.5
4H	2H	22.5	23.8	22.8	24.0	24.3	21.7	22.9	22.0	23.2	23.4
	3H	23.4	24.5	23.8	24.8	25.1	22.4	23.6	22.8	23.8	24.1
	4H	23.6	24.6	24.0	25.0	25.3	22.5	23.5	22.9	23.8	24.2
	6H	23.7	24.6	24.1	24.9	25.3	22.4	23.3	22.8	23.7	24.0
	8H	23.7	24.5	24.1	24.9	25.3	22.4	23.2	22.8	23.6	24.0
	12H	23.7	24.4	24.1	24.8	25.2	22.3	23.1	22.8	23.5	23.9
8H	4H	23.6	24.4	24.0	24.8	25.2	22.5	23.3	22.9	23.7	24.1
	6H	23.7	24.4	24.1	24.8	25.2	22.4	23.1	22.9	23.5	24.0
	8H	23.7	24.3	24.2	24.7	25.2	22.4	23.0	22.9	23.4	23.9
	12H	23.7	24.2	24.2	24.7	25.1	22.4	22.9	22.8	23.3	23.8
12H	4H	23.5	24.3	24.0	24.7	25.1	22.5	23.2	22.9	23.6	24.0
	6H	23.7	24.3	24.1	24.7	25.1	22.4	23.0	22.9	23.4	23.9
	8H	23.7	24.2	24.2	24.6	25.1	22.4	22.9	22.8	23.3	23.8
Variations with the observer position at spacings:											
S = 1.0H	+ 0.2 / - 0.3					+ 0.4 / - 0.5					
1.5H	+ 0.3 / - 0.4					+ 0.3 / - 0.6					
2.0H	+ 0.8 / - 1.0					+ 0.8 / - 1.2					

CIE Pub.117 Corrected 4940 lm Total Lamp Luminous Flux.(8log(F/F0) = 5.5)

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2018-04-24

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.266
 Humidity:65.0%
 Test Distance:10.110m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:230.1V I:0.2280A P:52.00W PF:0.9900 Lamp Flux:4940.06x1 lm		
NAME: UK50w感应E一体化	TYPE: 试生产02	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

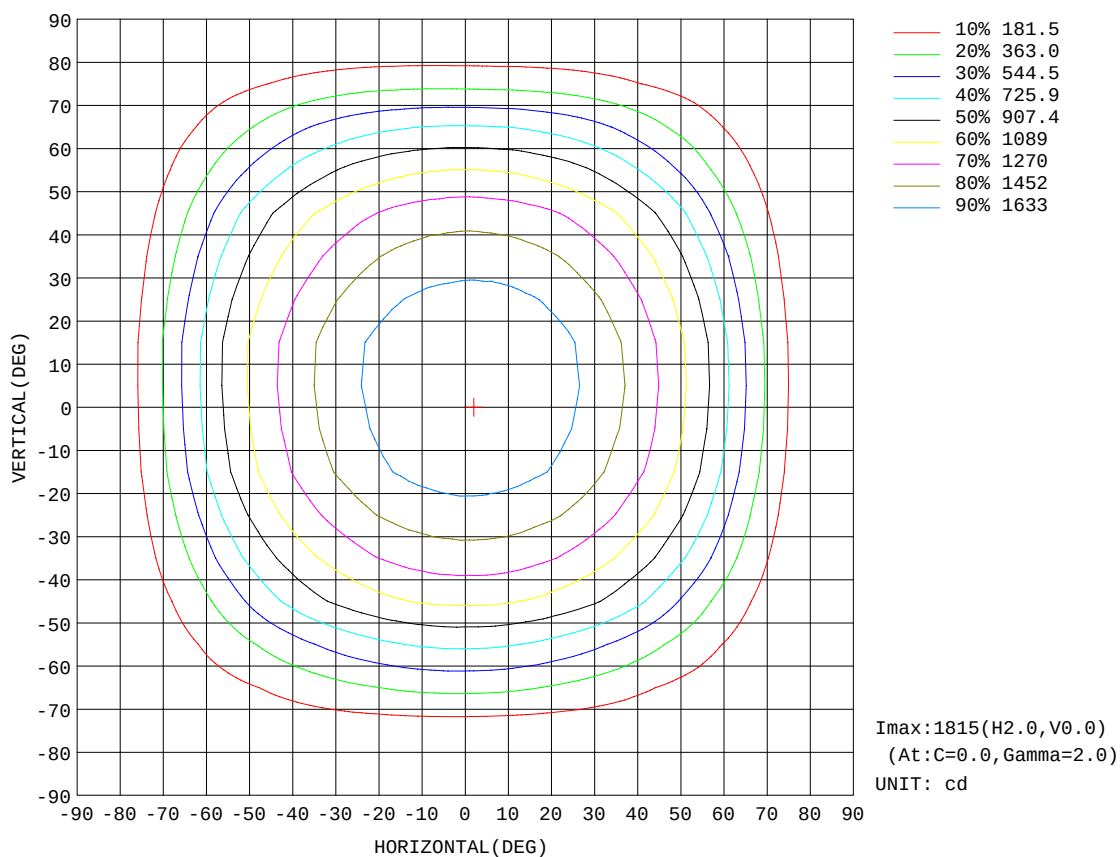
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	59	47	40	58	47	40	57	47	40	34
0.80	69	58	51	68	57	50	66	57	50	43
1.00	78	67	60	77	67	60	74	68	59	52
1.25	85	75	68	84	74	68	81	73	67	60
1.50	90	81	74	88	80	74	85	78	73	65
2.00	97	89	83	95	88	82	92	85	81	73
2.50	101	93	88	99	92	87	95	89	85	77
3.00	104	97	92	102	96	91	98	93	89	81
4.00	108	102	98	105	101	97	101	97	94	85
5.00	110	105	102	107	103	100	103	100	97	88
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2018-04-24

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.266
 Humidity: 65.0%
 Test Distance: 10.110m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:230.1V I:0.2280A P:52.00W PF:0.9900 Lamp Flux:4940.06x1 lm		
NAME: UK50w感应E一体化	TYPE: 试生产02	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

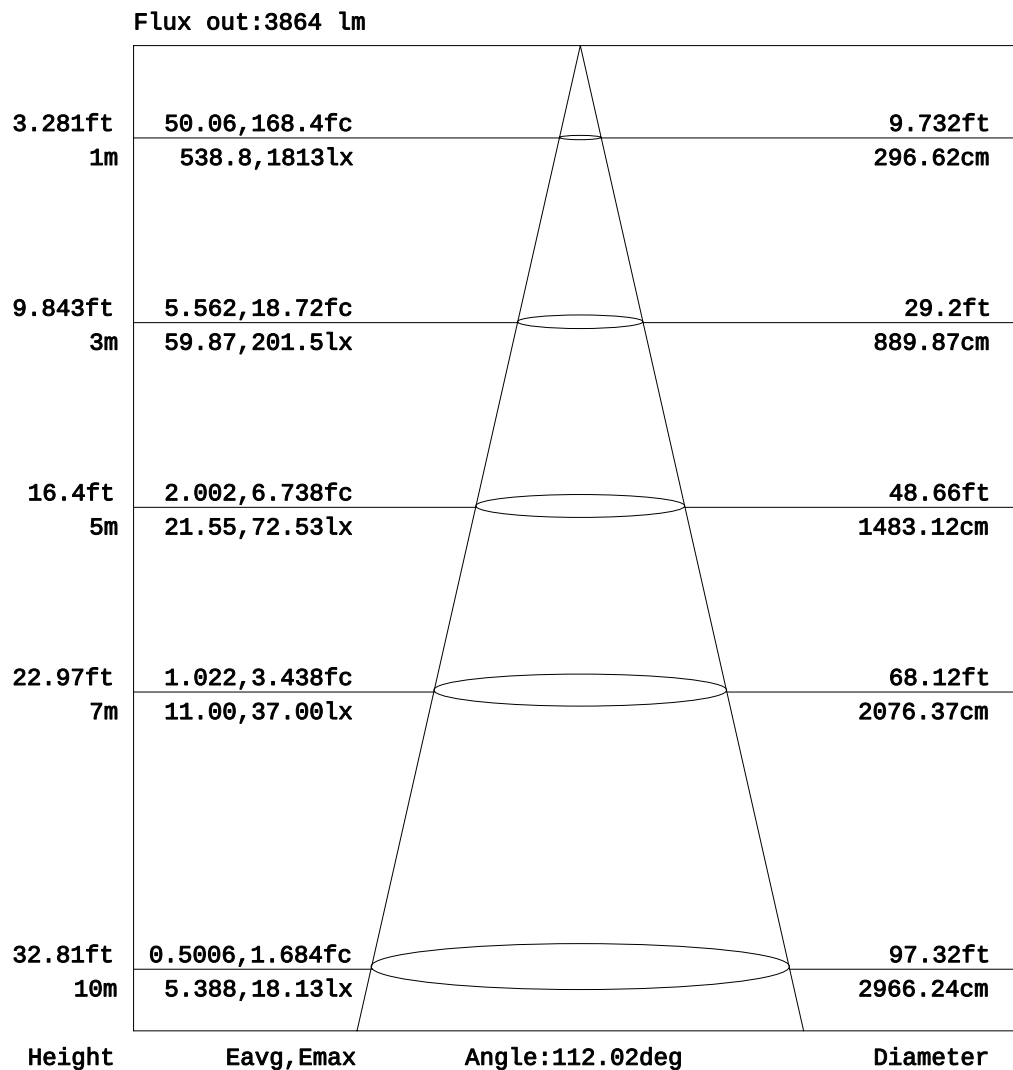


C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2018-04-24

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.266
Humidity:65.0%
Test Distance:10.110m [K=1.0000]
Remarks:

AAI Figure

Test:U:230.1V I:0.2280A P:52.00W PF:0.9900 Lamp Flux:4940.06x1 lm		
NAME: UK50w感应E一体化	TYPE: 试生产02	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:



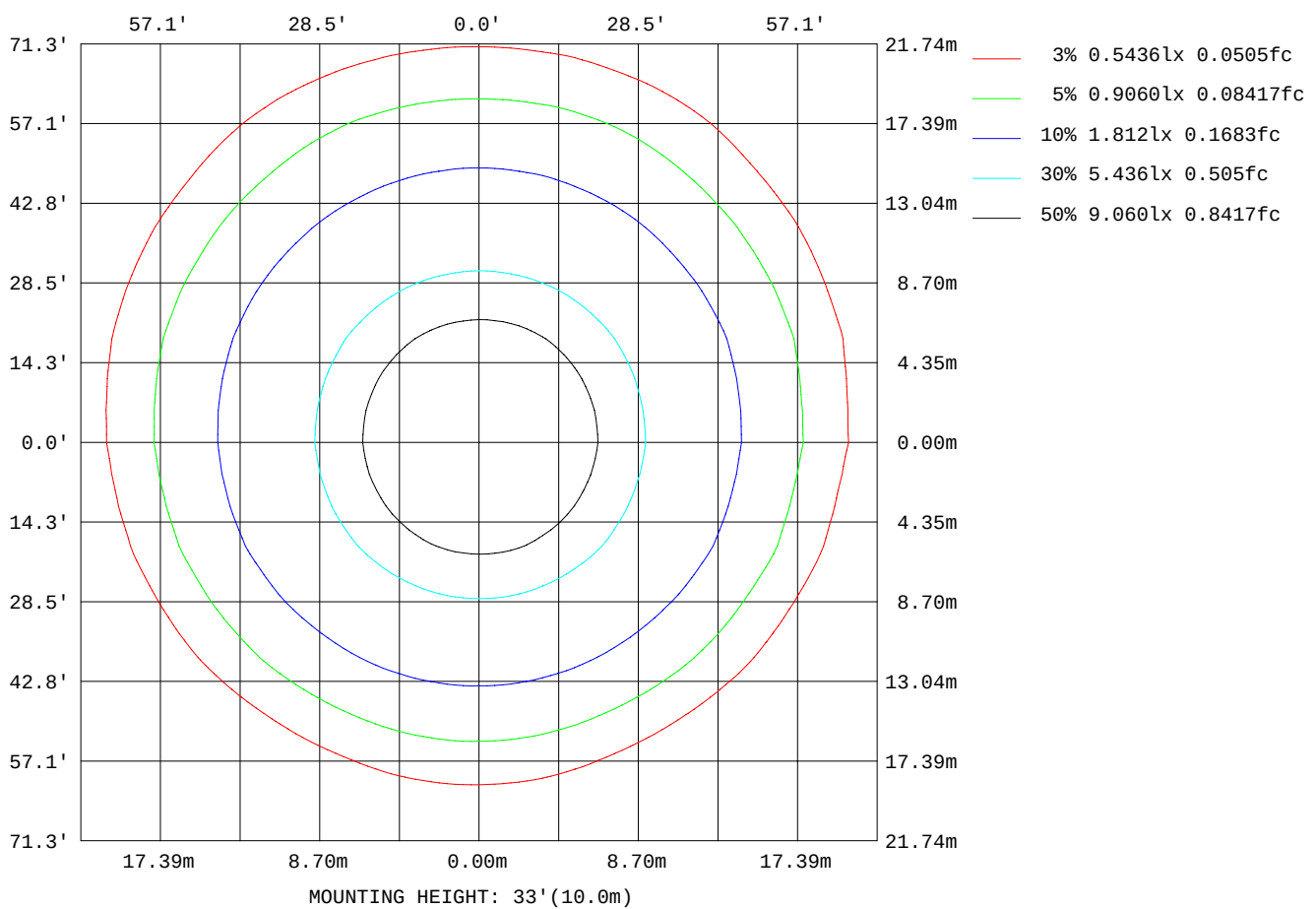
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2018-04-24

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.266
Humidity: 65.0%
Test Distance: 10.110m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

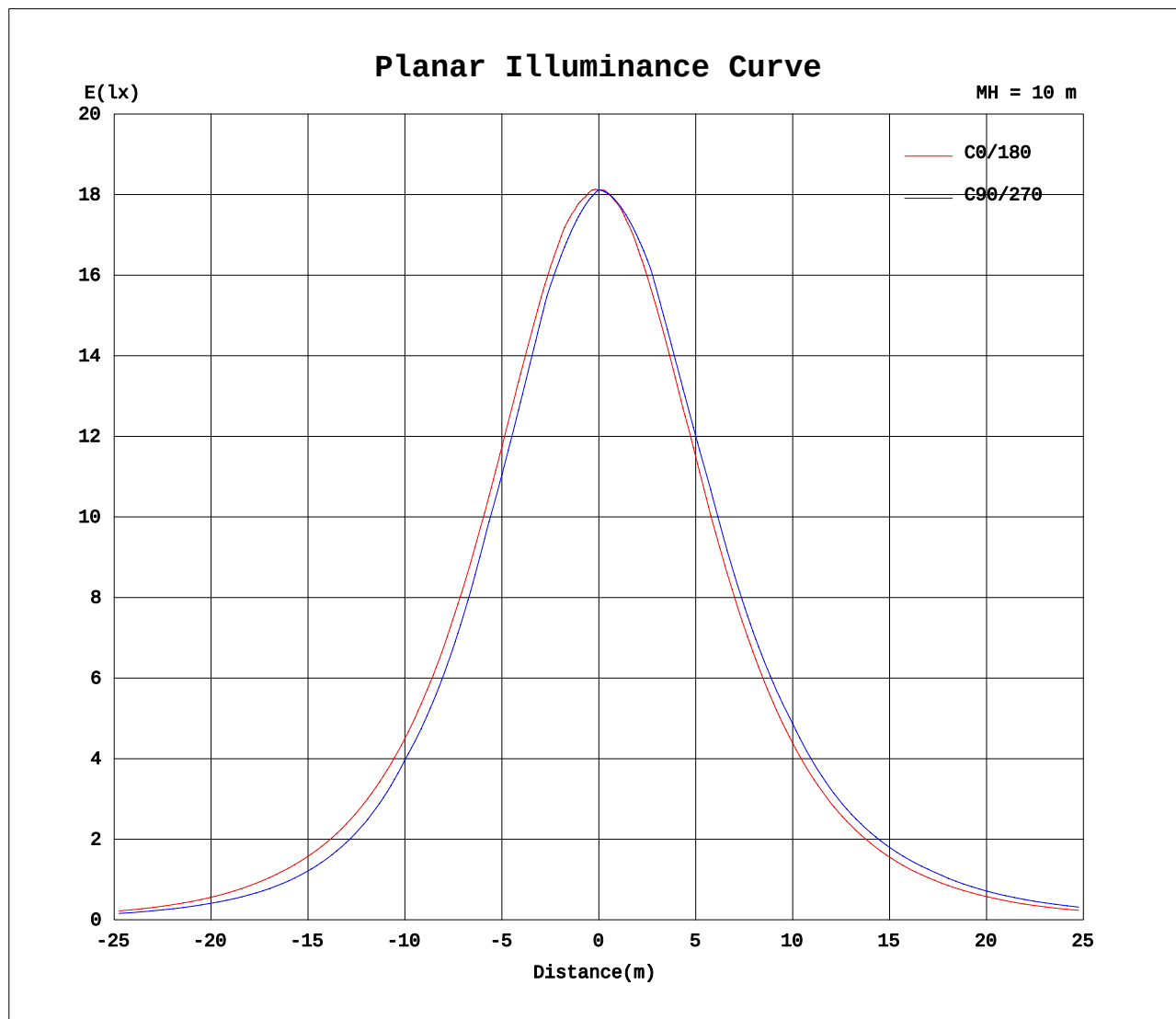
Test:U:230.1V I:0.2280A P:52.00W PF:0.9900 Lamp Flux:4940.06x1 lm		
NAME: UK50w感应E一体化	TYPE: 试生产02	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2018-04-24

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.266
 Humidity: 65.0%
 Test Distance: 10.110m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2018-04-24

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.266
Humidity: 65.0%
Test Distance: 10.110m [K=1.0000]
Remarks: