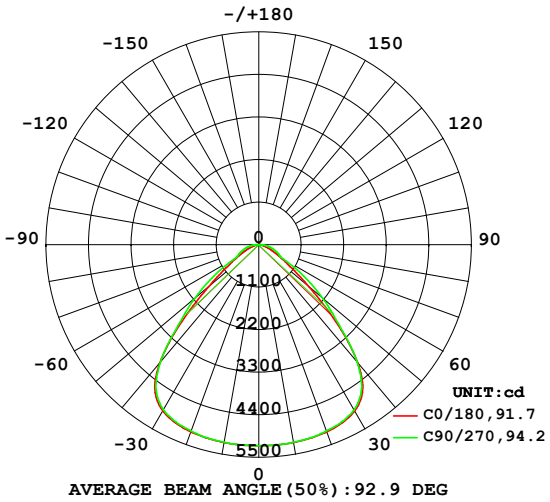
LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:230.1V I:0.4102A P:90.92W PF:0.9634 Lamp Flux:11225.2x1 lm		
NAME: LHB01-90	TYPE:90W	WEIGHT:
SPEC.:4000K Ra80 90DEG L02805	DIM.: 0.718*0.137*0.102	SERIAL No.:
MFR.:	SUR.:0.7*0.1	Shielding Angle:

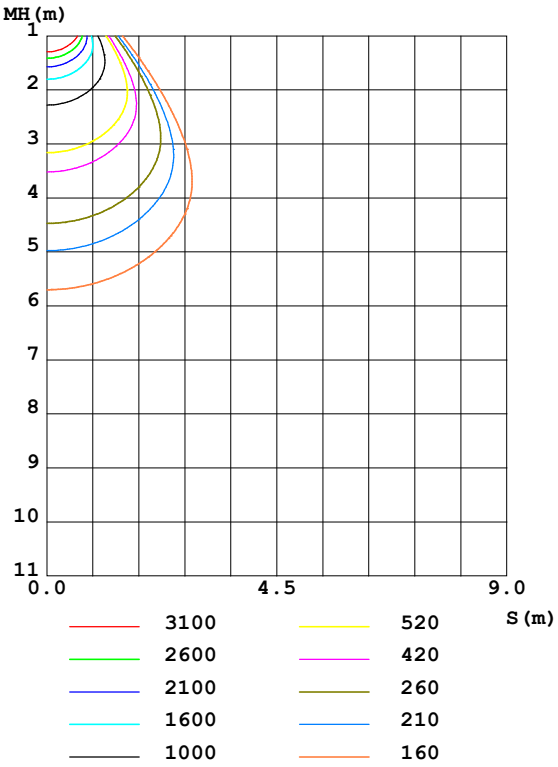
DATA OF LAMP		PHOTOMETRIC DATA Eff: 123.46 lm/W			
MODEL	LHB01-90	Imax(cd)	5201	S/MH(C0/180)	1.32
NOMINAL POWER(W)	90	LOR(%)	100.0	S/MH(C90/270)	1.32
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	11225	η UP,DN(C0-180)	0.0,50.1
NOMINAL FLUX(lm)	11225.2	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,49.9
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	230	η down(%)	100.0	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE BEAM ANGLE(50%):92.9 DEG

C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-04-20

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:9.500m [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	5199	5197	5198	5197	5199	5197	5198	5197	0- 5	124.3	124.3	1.11,1.11
10	5193	5193	5189	5193	5193	5192	5189	5192	5- 10	371.7	496.0	4.42,4.42
15	5179	5177	5171	5177	5179	5174	5171	5174	10- 15	615.0	1111	9.9,9.9
20	5150	5147	5125	5147	5150	5142	5125	5142	15- 20	850.5	1961	17.5,17.5
25	5089	5071	5063	5071	5089	5070	5063	5070	20- 25	1072	3033	27,27
30	4963	4929	4935	4929	4963	4937	4935	4937	25- 30	1269	4302	38.3,38.3
35	4674	4632	4623	4632	4674	4654	4623	4654	30- 35	1416	5718	50.9,50.9
40	3984	3963	3957	3963	3984	3982	3957	3982	35- 40	1446	7164	63.8,63.8
45	2818	2893	2949	2893	2818	2862	2949	2862	40- 45	1269	8433	75.1,75.1
50	1705	1803	2164	1803	1705	1757	2164	1757	45- 50	940.8	9374	83.5,83.5
55	999.3	1086	1417	1086	999.3	1052	1417	1052	50- 55	645.7	10020	89.3,89.3
60	624.4	728.3	668.8	728.3	624.4	706.1	668.8	706.1	55- 60	423.6	10443	93,93
65	400.6	457.9	558.1	457.9	400.6	445.1	558.1	445.1	60- 65	269.6	10713	95.4,95.4
70	252.4	293.5	447.3	293.5	252.4	285.9	447.3	285.9	65- 70	194.5	10907	97.2,97.2
75	146.9	214.2	336.6	214.2	146.9	208.8	336.6	208.8	70- 75	142.9	11050	98.4,98.4
80	35.50	140.6	225.9	140.6	35.50	137.5	225.9	137.5	75- 80	98.33	11149	99.3,99.3
85	2.804	71.42	115.1	71.42	2.804	70.04	115.1	70.04	80- 85	56.64	11205	99.8,99.8
90	2.066	4.287	4.398	4.287	2.066	4.559	4.398	4.559	85- 90	19.99	11225	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		

Conical surface Flux(90deg): 8433.1 lm

%lum = 75.1%
%lamp = 75.1%

Conical surface Flux(120deg): 10443 lm

%lum = 93.0%
%lamp = 93.0%

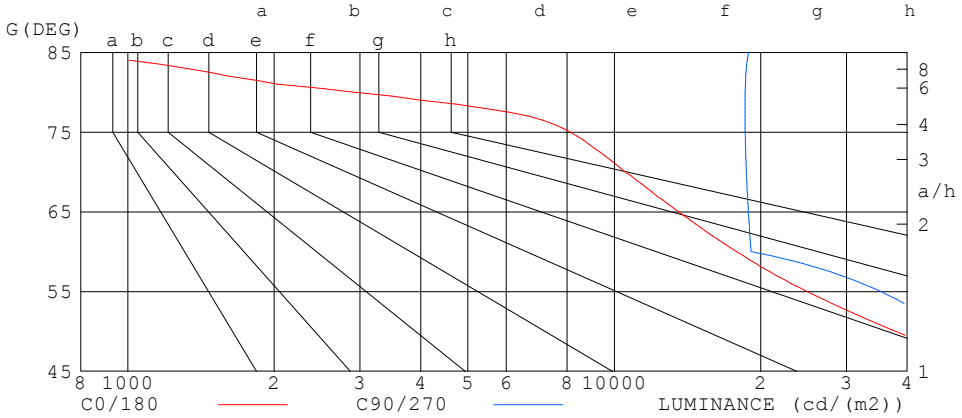
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-04-20

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:9.500m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

LUMINANCE LIMITATION CURVES

GLARE	CLASS	ILLUMINANCE (lx)							
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	460	18871
80	2920	18582
75	8108	18579
70	10541	18685
65	13540	18864
60	17841	19109
55	24888	35281
50	37893	48101
45	56932	59581

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C Interval: 5.0DEG
Test Speed: HIGH
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Operators:
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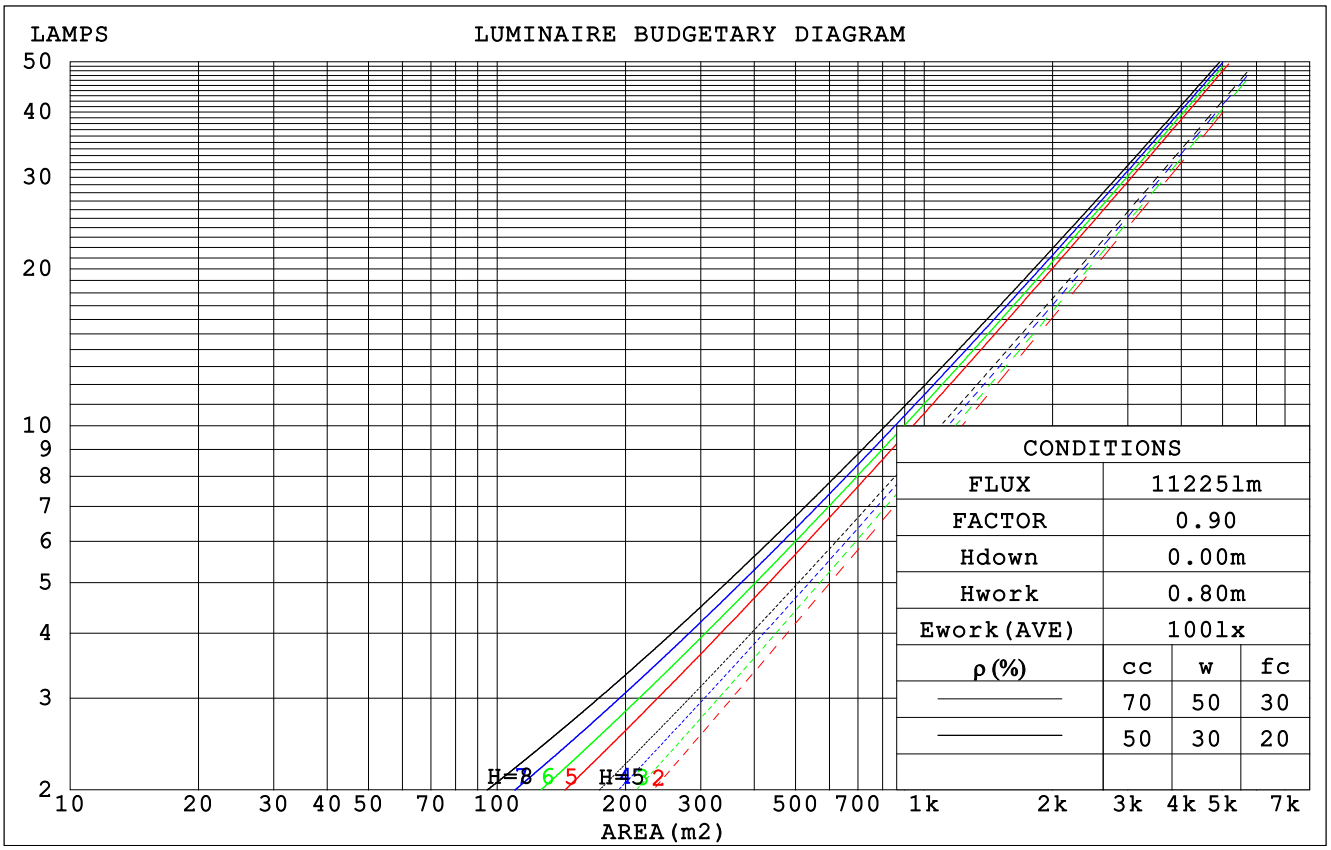
γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:9.500m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	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	1.04	1.01	1.05	1.02	.99	1.01	.99	.96	.97	.95	.93	.94	.92	.91	.89
2.0	.97	.91	.87	.95	.90	.86	.91	.87	.84	.88	.85	.82	.85	.83	.80	.78
3.0	.87	.80	.75	.86	.79	.74	.83	.77	.73	.80	.76	.72	.78	.74	.71	.69
4.0	.79	.71	.66	.77	.71	.65	.75	.69	.64	.73	.68	.64	.71	.66	.63	.61
5.0	.71	.64	.58	.70	.63	.58	.68	.62	.57	.67	.61	.57	.65	.60	.56	.54
6.0	.65	.57	.52	.64	.57	.52	.63	.56	.51	.61	.55	.51	.59	.54	.50	.48
7.0	.60	.52	.46	.59	.51	.46	.57	.51	.46	.56	.50	.46	.55	.49	.45	.44
8.0	.55	.47	.42	.54	.47	.42	.53	.46	.42	.52	.46	.41	.51	.45	.41	.39
9.0	.51	.43	.38	.50	.43	.38	.49	.42	.38	.48	.42	.38	.47	.41	.37	.36
10.0	.47	.40	.35	.46	.39	.35	.45	.39	.35	.44	.39	.34	.44	.38	.34	.33



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-04-20

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:9.500m [K=1.0000]
Remarks:

WEC AND CCEC

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coeffcients(WEC)									
0.0																
1.0	.241	.137	.043	.234	.134	.042	.221	.127	.041	.210	.121	.039	.199	.115	.037	
2.0	.233	.128	.039	.227	.125	.038	.216	.120	.037	.205	.115	.036	.196	.111	.035	
3.0	.221	.117	.035	.216	.115	.035	.206	.112	.034	.197	.108	.033	.188	.104	.032	
4.0	.208	.108	.032	.204	.107	.032	.195	.104	.031	.187	.101	.030	.180	.098	.030	
5.0	.197	.100	.029	.193	.099	.029	.185	.096	.028	.178	.094	.028	.171	.092	.028	
6.0	.186	.093	.027	.182	.092	.026	.175	.090	.026	.169	.088	.026	.163	.086	.025	
7.0	.175	.087	.025	.172	.086	.024	.166	.084	.024	.161	.082	.024	.155	.081	.024	
8.0	.166	.081	.023	.163	.080	.023	.158	.079	.023	.153	.077	.022	.148	.076	.022	
9.0	.157	.076	.021	.155	.075	.021	.150	.074	.021	.145	.073	.021	.141	.072	.021	
10.0	.149	.072	.020	.147	.071	.020	.143	.070	.020	.139	.069	.020	.135	.068	.019	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	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	.164	.132	.105	.141	.114	.091	.096	.079	.063	.056	.046	.037	.018	.015	.012	
3.0	.155	.114	.081	.133	.098	.070	.091	.068	.049	.053	.040	.029	.017	.013	.010	
4.0	.147	.100	.064	.126	.086	.056	.087	.060	.039	.050	.035	.023	.016	.011	.008	
5.0	.139	.089	.052	.120	.077	.045	.083	.054	.032	.048	.032	.019	.015	.010	.006	
6.0	.133	.081	.043	.114	.070	.038	.079	.049	.027	.046	.029	.016	.015	.009	.005	
7.0	.127	.074	.036	.109	.064	.032	.075	.045	.022	.044	.026	.013	.014	.009	.004	
8.0	.121	.068	.031	.104	.059	.027	.072	.041	.019	.042	.024	.011	.014	.008	.004	
9.0	.116	.063	.027	.100	.054	.024	.069	.038	.017	.040	.023	.010	.013	.007	.003	
10.0	.111	.059	.024	.095	.051	.021	.066	.036	.015	.039	.021	.009	.012	.007	.003	

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-04-20

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:9.500m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

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	23.8	25.1	24.1	25.3	25.5	24.6	25.9	24.8	26.1	26.2
	3H	23.9	25.1	24.2	25.3	25.6	24.9	26.1	25.2	26.3	26.6
	4H	23.9	25.1	24.2	25.3	25.5	25.2	26.3	25.5	26.5	26.8
	6H	23.9	24.9	24.2	25.2	25.5	25.4	26.5	25.7	26.7	27.0
	8H	23.8	24.9	24.2	25.1	25.4	25.5	26.5	25.9	26.8	27.1
	12H	23.8	24.8	24.1	25.0	25.3	25.6	26.6	25.9	26.9	27.1
4H	2H	23.8	25.0	24.1	25.2	25.4	24.5	25.6	24.8	25.9	26.1
	3H	24.1	25.0	24.4	25.3	25.6	25.0	26.0	25.4	26.3	26.6
	4H	24.1	25.0	24.5	25.3	25.6	25.4	26.3	25.8	26.6	26.9
	6H	24.1	24.9	24.5	25.3	25.6	25.8	26.6	26.2	26.9	27.3
	8H	24.1	24.8	24.5	25.2	25.6	26.0	26.7	26.4	27.0	27.4
	12H	24.1	24.7	24.5	25.1	25.5	26.1	26.8	26.5	27.1	27.5
8H	4H	24.2	24.9	24.6	25.2	25.6	25.4	26.1	25.8	26.5	26.8
	6H	24.3	24.8	24.7	25.2	25.7	25.9	26.5	26.3	26.9	27.3
	8H	24.3	24.8	24.7	25.2	25.6	26.1	26.7	26.6	27.1	27.5
	12H	24.2	24.7	24.7	25.1	25.6	26.4	26.8	26.9	27.3	27.7
12H	4H	24.2	24.8	24.6	25.2	25.6	25.4	26.0	25.8	26.4	26.8
	6H	24.3	24.8	24.7	25.2	25.7	25.9	26.4	26.3	26.8	27.3
	8H	24.3	24.8	24.8	25.2	25.7	26.2	26.6	26.6	27.1	27.5
Variations with the observer position at spacings:											
S = 1.0H		+ 1.4 / - 2.2					+ 0.8 / - 0.9				
1.5H		+ 1.4 / - 1.8					+ 0.7 / - 0.7				
2.0H		+ 3.1 / - 2.3					+ 2.0 / - 1.9				

CIE Pub.117 Corrected 11225 lm Total Lamp Luminous Flux.(8log(F/F0) = 8.4)

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-04-20

γ Range: 0 - 90DEG
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Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:9.500m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

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) x RCR = 5									
k = 0.60	69	59	53	68	59	53	67	58	53	48
0.80	79	69	63	78	69	63	76	68	63	57
1.00	86	78	72	85	77	72	83	78	71	65
1.25	92	84	79	91	84	79	89	83	78	72
1.50	97	89	84	95	88	83	93	87	82	76
2.00	102	95	91	100	94	90	97	92	88	82
2.50	105	99	94	103	97	93	99	95	91	84
3.00	107	102	98	105	100	97	101	98	95	87
4.00	110	106	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	

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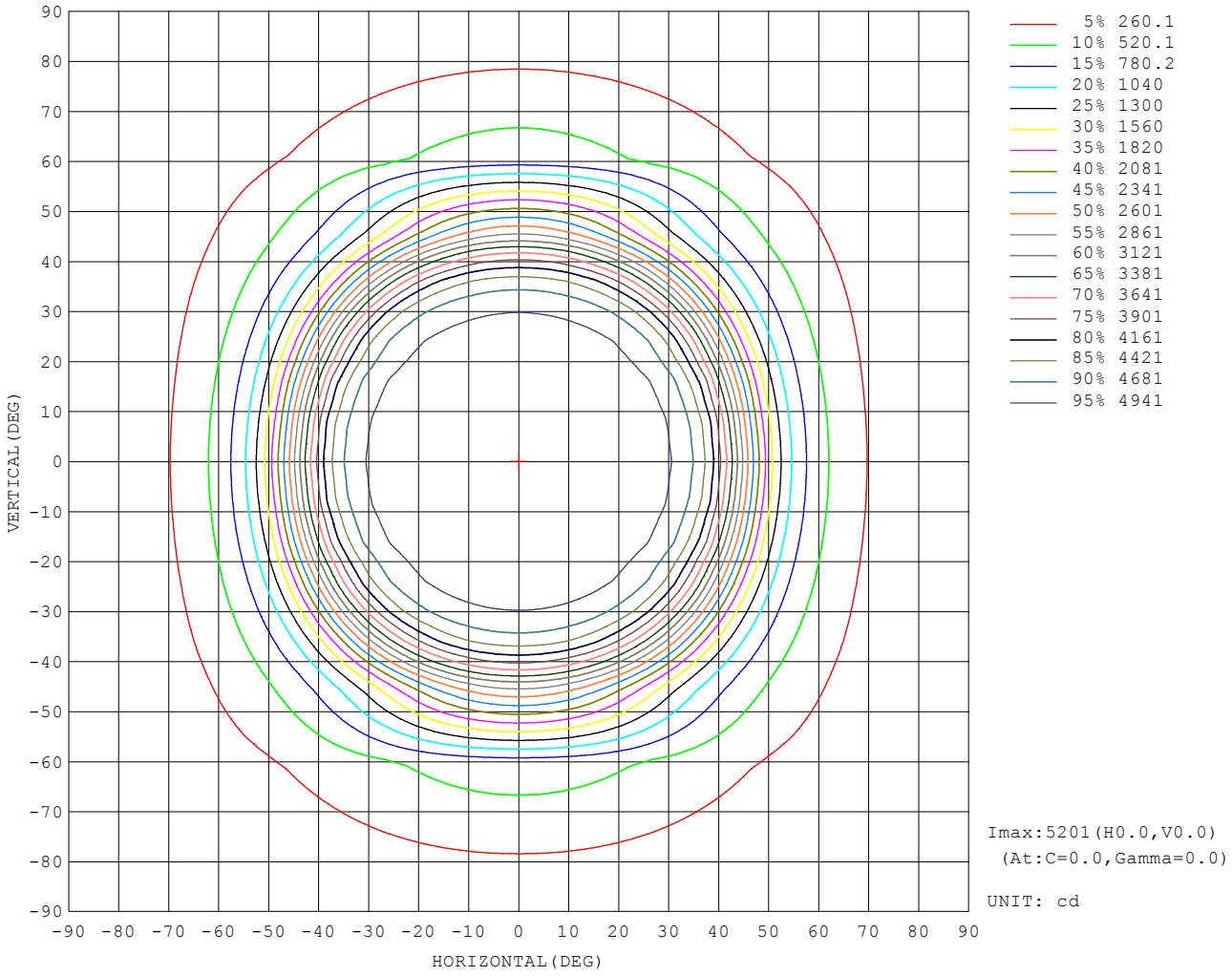
Test Distance:9.500m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM



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Humidity:65.0%
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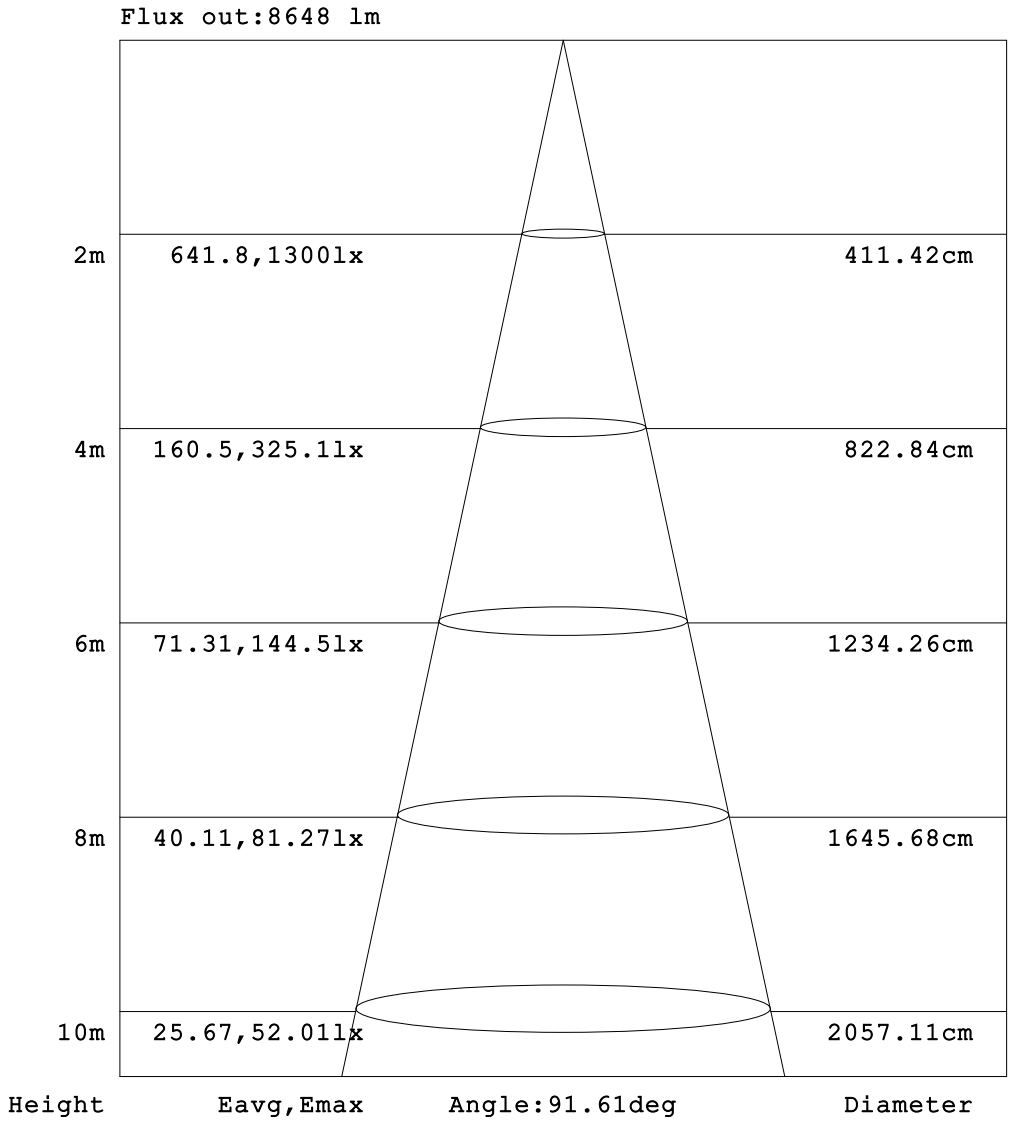
Remarks:

AAI Figure



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

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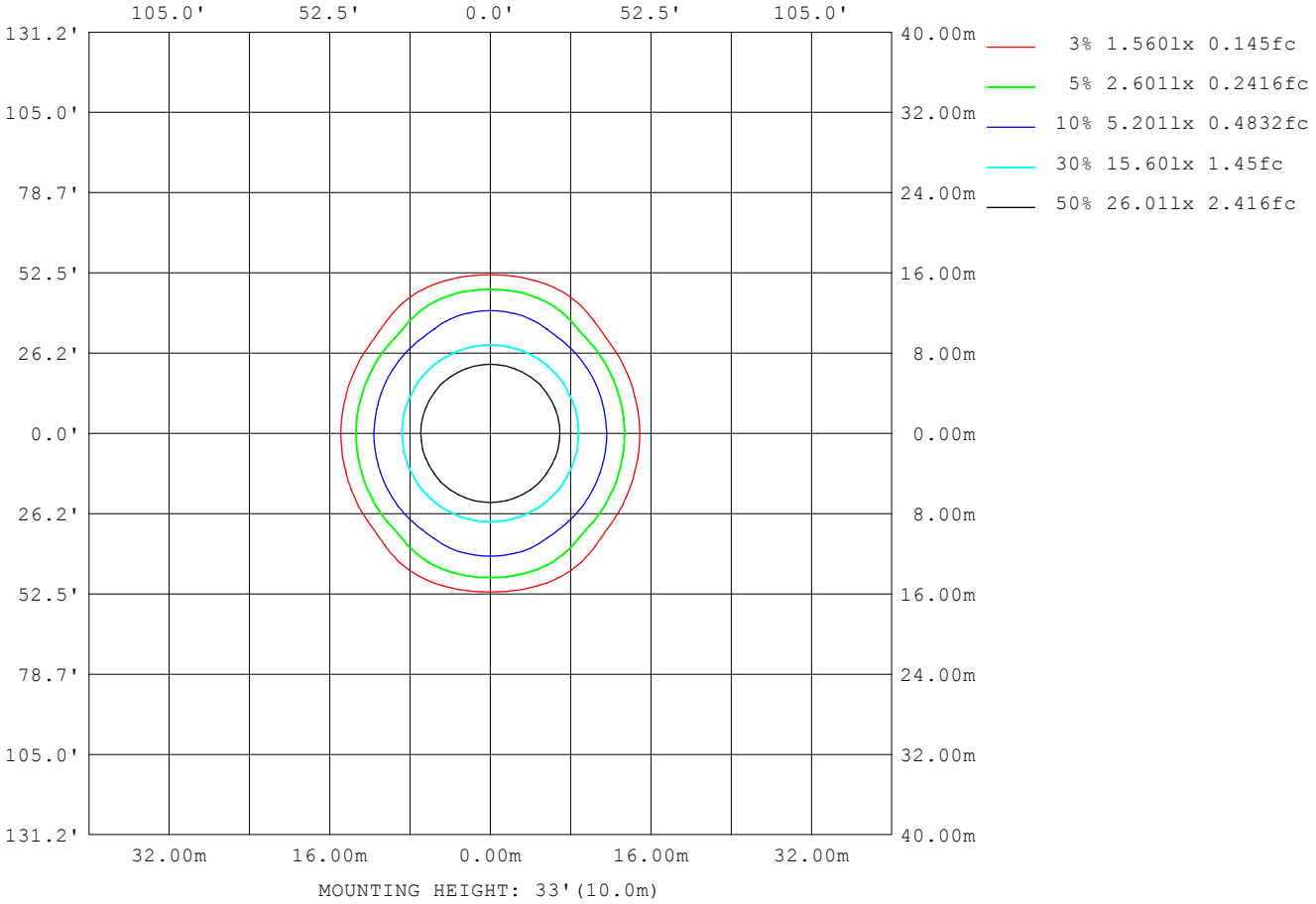
Test Distance:9.500m [K=1.0000]
Remarks:

ISOLUX DIAGRAM



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Humidity:65.0%
Test Distance:9.500m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:230.1V I:0.4102A P:90.92W PF:0.9634 Lamp Flux:11225.2x1 lm		
NAME: LHB01-90	TYPE:90W	WEIGHT:
SPEC.:4000K Ra80 90DEG L02805	DIM.: 0.718*0.137*0.102	SERIAL No.:
MFR.:	SUR.:0.7*0.1	Shielding Angle:

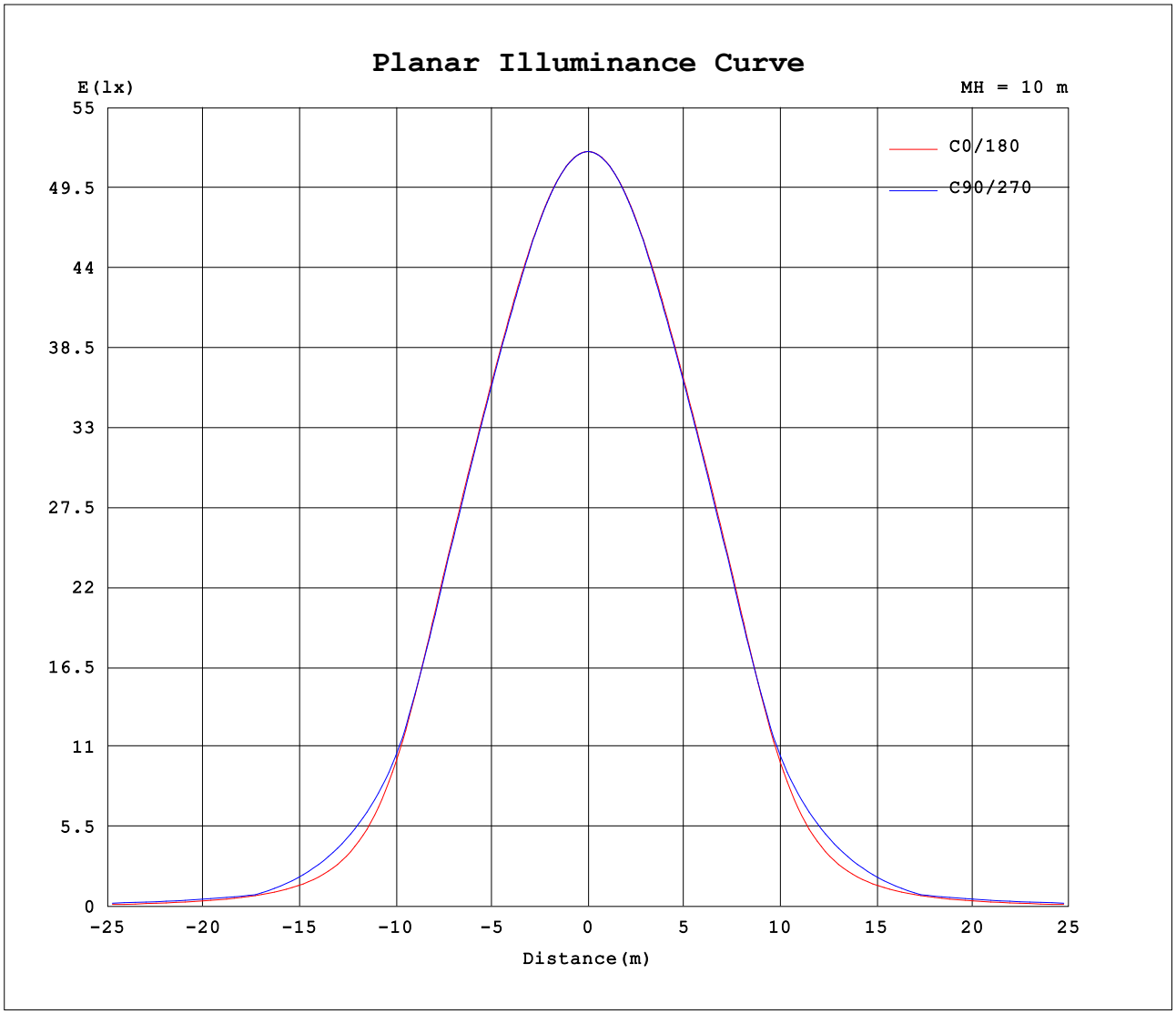
AvgL	cd/m2
L_0~180(65)av	13540
L_0~180(75)av	8108
L_0~180(85)av	460
L_90~270(65)av	18864
L_90~270(75)av	18579
L_90~270(85)av	18871
L_45(65)av	15263
L_45(75)av	11673
L_45(85)av	11593

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-04-20

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:9.500m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-04-20

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:9.500m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Table--1 UNIT: cd

C(DEG) / γ (DEG)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
0	5201	5201	5201	5201	5201	5201	5201	5201	5201	5201	5201	5201	5201	5201	5201	5201	5201	5201	5201
5	5199	5199	5198	5198	5198	5198	5198	5198	5197	5197	5197	5197	5197	5197	5197	5197	5197	5197	5198
10	5193	5192	5192	5192	5192	5192	5192	5192	5193	5193	5193	5192	5191	5190	5189	5189	5188	5188	5189
15	5179	5178	5178	5178	5179	5180	5181	5180	5178	5177	5176	5175	5174	5173	5173	5172	5172	5171	5171
20	5150	5148	5148	5149	5151	5151	5147	5146	5145	5147	5149	5145	5139	5135	5131	5129	5127	5126	5125
25	5089	5085	5084	5088	5085	5079	5079	5082	5080	5071	5067	5067	5068	5069	5071	5069	5066	5064	5063
30	4963	4954	4954	4958	4944	4944	4951	4928	4922	4929	4943	4938	4936	4935	4934	4934	4934	4935	4935
35	4674	4652	4659	4641	4635	4645	4606	4613	4642	4632	4631	4639	4628	4625	4621	4624	4622	4622	4623
40	3984	3944	3972	3938	3974	3918	3935	3963	3959	3963	3959	3960	3973	3963	3959	3952	3952	3956	3957
45	2818	2789	2803	2810	2815	2832	2854	2868	2877	2893	2899	2910	2913	2918	2918	2915	2936	2947	2949
50	1705	1691	1693	1714	1721	1740	1756	1773	1790	1803	1815	1839	1894	1989	2064	2114	2145	2161	2164
55	999	997	999	1005	1015	1024	1034	1048	1055	1086	1159	1244	1316	1368	1401	1416	1420	1419	1417
60	624	622	622	624	630	636	642	652	686	728	768	796	807	796	770	735	702	678	669
65	401	398	398	402	407	411	421	438	451	458	449	432	459	485	510	530	546	556	558
70	252	250	252	258	262	269	276	277	273	293	315	338	361	384	405	423	437	445	447
75	147	147	153	158	163	166	171	183	198	214	231	250	268	286	303	317	328	335	337
80	35.5	44.3	67.3	85.9	93.8	101	110	119	129	141	153	165	178	191	202	212	220	225	226
85	2.80	9.05	17.3	34.4	46.2	50.8	55.4	60.3	65.7	71.4	77.7	84.1	90.7	97.1	103	108	112	115	115
90	2.07	4.00	4.24	4.47	4.41	4.32	4.28	4.27	4.27	4.29	4.32	4.35	4.37	4.39	4.42	4.41	4.41	4.40	4.40

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-04-20

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:9.500m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Table--2 UNIT: cd

C(DEG) / γ (DEG)	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185
0	5201	5201	5201	5201	5201	5201	5201	5201	5201	5201	5201	5201	5201	5201	5201	5201	5201	5201	5201
5	5197	5197	5197	5197	5197	5197	5197	5197	5197	5197	5198	5198	5198	5198	5198	5198	5199	5199	5199
10	5188	5188	5189	5189	5190	5191	5192	5193	5193	5193	5192	5192	5192	5192	5192	5192	5192	5193	5192
15	5171	5172	5172	5173	5173	5174	5175	5176	5177	5178	5180	5181	5180	5179	5178	5178	5178	5179	5177
20	5126	5127	5129	5131	5135	5139	5145	5149	5147	5145	5146	5147	5151	5151	5149	5148	5148	5150	5147
25	5064	5066	5069	5071	5069	5068	5067	5067	5071	5080	5082	5079	5079	5085	5088	5084	5085	5089	5085
30	4935	4934	4934	4934	4935	4936	4938	4943	4929	4922	4928	4951	4944	4944	4958	4954	4954	4963	4955
35	4622	4622	4624	4621	4625	4628	4639	4631	4632	4642	4613	4606	4645	4635	4641	4659	4652	4674	4657
40	3956	3952	3952	3959	3963	3973	3960	3959	3963	3959	3963	3935	3918	3974	3938	3972	3944	3984	3950
45	2947	2936	2915	2918	2918	2913	2910	2899	2893	2877	2868	2854	2832	2815	2810	2803	2789	2818	2785
50	2161	2145	2114	2064	1989	1894	1839	1815	1803	1790	1773	1756	1740	1721	1714	1693	1691	1705	1685
55	1419	1420	1416	1401	1368	1316	1244	1159	1086	1055	1048	1034	1024	1015	1005	999	997	999	994
60	678	702	735	770	796	807	796	768	728	686	652	642	636	630	624	622	622	624	621
65	556	546	530	510	485	459	432	449	458	451	438	421	411	407	402	398	398	401	398
70	445	437	423	405	384	361	338	315	293	273	277	276	269	262	258	252	250	252	250
75	335	328	317	303	286	268	250	231	214	198	183	171	166	163	158	153	147	147	149
80	225	220	212	202	191	178	165	153	141	129	119	110	101	93.8	85.9	67.3	44.3	35.5	41.5
85	115	112	108	103	97.1	90.7	84.1	77.7	71.4	65.7	60.3	55.4	50.8	46.2	34.4	17.3	9.05	2.80	8.78
90	4.40	4.41	4.41	4.42	4.39	4.37	4.35	4.32	4.29	4.27	4.27	4.28	4.32	4.41	4.47	4.24	4.00	2.07	3.71

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-04-20

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:9.500m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Table--3 UNIT: cd

C(DEG) / γ (DEG)	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280
0	5201	5201	5201	5201	5201	5201	5201	5201	5201	5201	5201	5201	5201	5201	5201	5201	5201	5201	5201
5	5198	5198	5198	5198	5198	5198	5197	5197	5197	5197	5197	5197	5197	5197	5197	5197	5198	5197	5197
10	5192	5192	5192	5192	5192	5192	5192	5192	5192	5192	5191	5190	5189	5189	5188	5188	5189	5188	5188
15	5177	5177	5177	5178	5180	5178	5176	5174	5173	5173	5172	5172	5172	5172	5171	5171	5171	5171	5171
20	5146	5147	5148	5148	5144	5142	5142	5142	5144	5141	5136	5132	5129	5128	5126	5125	5125	5125	5126
25	5084	5087	5085	5080	5080	5083	5080	5070	5064	5063	5063	5064	5067	5067	5064	5063	5063	5063	5064
30	4957	4962	4950	4951	4959	4937	4931	4937	4948	4941	4936	4933	4932	4932	4933	4934	4935	4934	4933
35	4669	4655	4653	4664	4626	4634	4664	4654	4652	4656	4640	4633	4626	4627	4624	4623	4623	4623	4624
40	3982	3949	3992	3931	3958	3982	3981	3982	3975	3976	3990	3965	3958	3955	3955	3957	3957	3957	3955
45	2796	2799	2798	2811	2831	2842	2850	2862	2870	2879	2883	2890	2897	2902	2927	2943	2949	2943	2927
50	1681	1699	1697	1710	1720	1732	1745	1757	1765	1792	1854	1957	2040	2099	2136	2157	2164	2157	2136
55	991	994	999	1003	1009	1018	1024	1052	1123	1208	1284	1343	1382	1402	1411	1415	1417	1415	1411
60	619	620	622	624	628	635	666	706	745	774	786	780	757	725	695	675	669	675	695
65	398	400	402	403	412	427	440	445	436	421	448	475	500	522	541	553	558	553	541
70	252	256	259	266	271	270	267	286	307	329	352	375	397	417	432	443	447	443	432
75	154	159	163	165	168	180	194	209	225	243	261	280	297	312	325	333	337	333	325
80	65.3	85.6	93.7	101	108	117	127	137	149	161	174	186	198	209	218	223	226	223	218
85	16.0	32.0	45.9	50.6	54.9	59.5	64.4	70.0	76.0	82.2	88.6	95.0	101	107	111	114	115	114	111
90	3.94	3.84	3.77	3.94	4.36	4.47	4.49	4.56	4.61	4.60	4.58	4.56	4.53	4.50	4.46	4.42	4.40	4.42	4.46

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-04-20

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:9.500m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Table--4 UNIT: cd

γ (DEG) \ C(DEG)	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355				
0	5201	5201	5201	5201	5201	5201	5201	5201	5201	5201	5201	5201	5201	5201	5201				
5	5197	5197	5197	5197	5197	5197	5197	5197	5198	5198	5198	5198	5198	5198	5199				
10	5189	5189	5190	5191	5192	5192	5192	5192	5192	5192	5192	5192	5192	5192	5192				
15	5172	5172	5172	5172	5173	5173	5174	5176	5178	5180	5178	5177	5177	5177	5177				
20	5128	5129	5132	5136	5141	5144	5142	5142	5142	5144	5148	5148	5147	5146	5147				
25	5067	5067	5064	5063	5063	5064	5070	5080	5083	5080	5080	5085	5087	5084	5085				
30	4932	4932	4933	4936	4941	4948	4937	4931	4937	4959	4951	4950	4962	4957	4955				
35	4627	4626	4633	4640	4656	4652	4654	4664	4634	4626	4664	4653	4655	4669	4657				
40	3955	3958	3965	3990	3976	3975	3982	3981	3982	3958	3931	3992	3949	3982	3950				
45	2902	2897	2890	2883	2879	2870	2862	2850	2842	2831	2811	2798	2799	2796	2785				
50	2099	2040	1957	1854	1792	1765	1757	1745	1732	1720	1710	1697	1699	1681	1685				
55	1402	1382	1343	1284	1208	1123	1052	1024	1018	1009	1003	999	994	991	994				
60	725	757	780	786	774	745	706	666	635	628	624	622	620	619	621				
65	522	500	475	448	421	436	445	440	427	412	403	402	400	398	398				
70	417	397	375	352	329	307	286	267	270	271	266	259	256	252	250				
75	312	297	280	261	243	225	209	194	180	168	165	163	159	154	149				
80	209	198	186	174	161	149	137	127	117	108	101	93.7	85.6	65.3	41.5				
85	107	101	95.0	88.6	82.2	76.0	70.0	64.4	59.5	54.9	50.6	45.9	32.0	16.0	8.78				
90	4.50	4.53	4.56	4.58	4.60	4.61	4.56	4.49	4.47	4.36	3.94	3.77	3.84	3.94	3.71				

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-04-20

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:9.500m [K=1.0000]
Remarks: