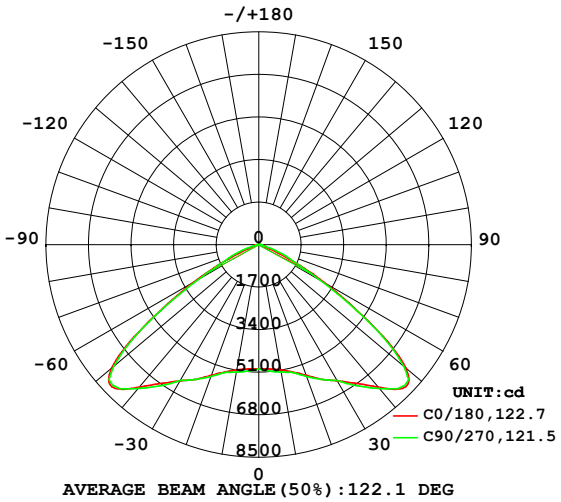
LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:229.9V I:0.8024A P:178.3W PF:0.9663 Lamp Flux:21425.7x1 lm		
NAME: LHB01-180	TYPE:180W	WEIGHT:
SPEC.:4000K Ra80 120DEG L02803	DIM.: 0.718*0.275*0.102	SERIAL No.:
MFR.:	SUR.:0.255*0.69	Shielding Angle:

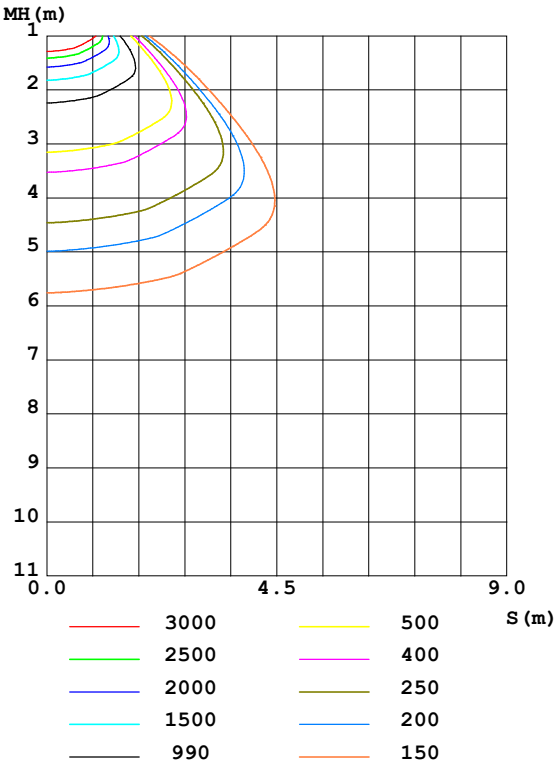
DATA OF LAMP		PHOTOMETRIC DATA Eff: 120.17 lm/W			
MODEL	LHB01-180	Imax(cd)	8174	S/MH(C0/180)	1.93
NOMINAL POWER(W)	180	LOR(%)	100.0	S/MH(C90/270)	1.93
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	21426	η UP,DN(C0-180)	0.0,50.0
NOMINAL FLUX(lm)	21425.7	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,50.0
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.75
TEST VOLTAGE(V)	230	η down(%)	100.0	CIBSE SHR MAX	1.75

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE BEAM ANGLE(50%):122.1 DEG

C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-03-24

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	4990	5054	5072	5056	4990	5056	5072	5054	0- 5	120.0	120.0	0.56,0.56
10	5085	5175	5174	5181	5085	5181	5174	5175	5- 10	365.4	485.4	2.27,2.27
15	5271	5346	5299	5362	5271	5362	5299	5346	10- 15	622.4	1108	5.17,5.17
20	5558	5574	5607	5602	5558	5602	5607	5574	15- 20	901.2	2009	9.38,9.38
25	5939	5952	5939	5997	5939	5997	5939	5952	20- 25	1215	3224	15,15
30	6288	6380	6271	6433	6288	6433	6271	6380	25- 30	1558	4782	22.3,22.3
35	6770	6813	6889	6922	6770	6922	6889	6813	30- 35	1939	6721	31.4,31.4
40	7435	7284	7508	7428	7435	7428	7508	7284	35- 40	2382	9103	42.5,42.5
45	8125	7318	8053	7374	8125	7374	8053	7318	40- 45	2846	11949	55.8,55.8
50	7678	6715	7562	6715	7678	6715	7562	6715	45- 50	3136	15085	70.4,70.4
55	5369	5232	5317	5218	5369	5218	5317	5232	50- 55	2795	17880	83.5,83.5
60	3007	2832	2752	2776	3007	2776	2752	2832	55- 60	1853	19733	92.1,92.1
65	1175	1123	1430	1157	1175	1157	1430	1123	60- 65	947.3	20680	96.5,96.5
70	295.4	417.5	785.9	438.0	295.4	438.0	785.9	417.5	65- 70	403.5	21084	98.4,98.4
75	206.4	238.6	201.5	249.2	206.4	249.2	201.5	238.6	70- 75	188.9	21273	99.3,99.3
80	126.5	107.3	96.90	112.9	126.5	112.9	96.90	107.3	75- 80	88.76	21362	99.7,99.7
85	34.71	57.46	52.32	60.05	34.71	60.05	52.32	57.46	80- 85	47.01	21409	99.9,99.9
90	5.672	8.374	7.740	7.832	5.672	7.832	7.740	8.374	85- 90	17.15	21426	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): 11949 lm

%lum = 55.8%
%lamp = 55.8%

Conical surface Flux(120deg): 19733 lm

%lum = 92.1%
%lamp = 92.1%

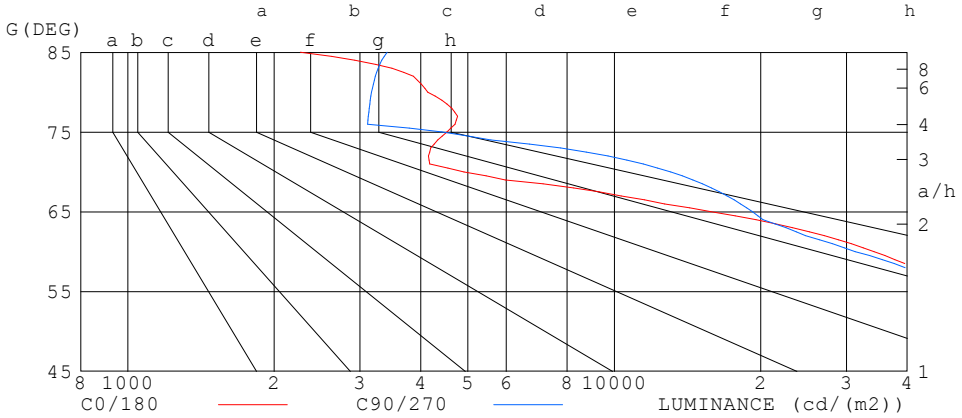
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-03-24

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	2263	3411
80	4140	3171
75	4531	4423
70	4908	13056
65	15799	19230
60	34172	31278
55	53184	52666
50	67865	66841
45	65285	64706

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Test Speed: HIGH
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Operators:
Test Date:2017-03-24

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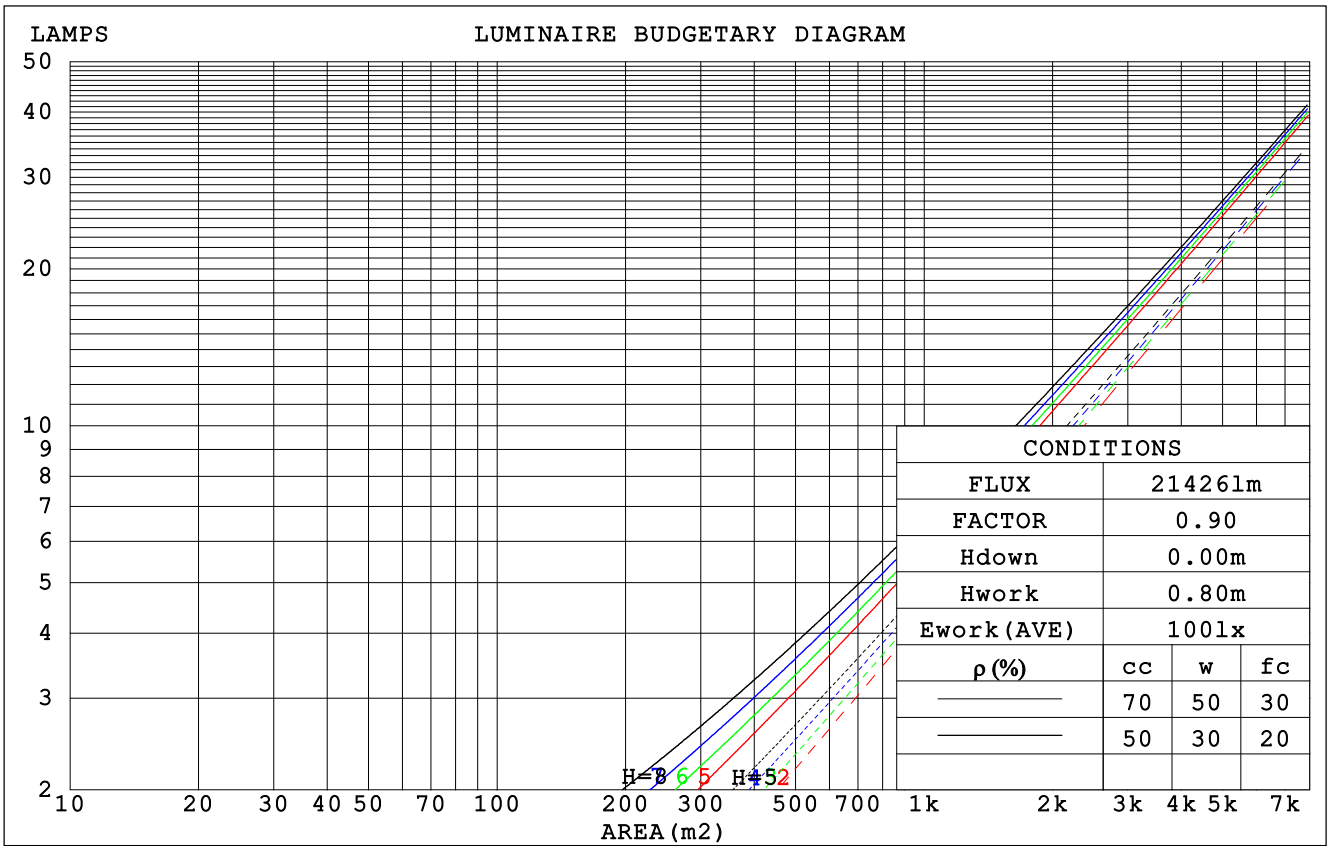
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:9.500m [K=1.0000]
Remarks:

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	1.06	1.03	.99	1.04	1.01	.98	.00	.97	.95	.96	.94	.92	.92	.91	.89	.87
2.0	.94	.87	.82	.92	.86	.81	.88	.84	.79	.85	.81	.78	.82	.79	.76	.74
3.0	.82	.75	.69	.81	.74	.68	.78	.72	.67	.75	.70	.66	.73	.68	.65	.63
4.0	.73	.64	.58	.71	.64	.58	.69	.62	.57	.67	.61	.56	.65	.59	.55	.53
5.0	.65	.56	.49	.63	.55	.49	.61	.54	.49	.59	.53	.48	.58	.52	.47	.45
6.0	.58	.49	.42	.57	.48	.42	.55	.47	.42	.53	.47	.41	.52	.46	.41	.39
7.0	.52	.43	.37	.51	.43	.37	.49	.42	.36	.48	.41	.36	.46	.40	.36	.34
8.0	.47	.38	.32	.46	.38	.32	.45	.37	.32	.43	.37	.32	.42	.36	.31	.30
9.0	.42	.34	.28	.42	.34	.28	.41	.33	.28	.39	.33	.28	.38	.32	.28	.26
10.0	.39	.31	.25	.38	.30	.25	.37	.30	.25	.36	.30	.25	.35	.29	.25	.23



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-03-24

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	.264	.150	.048	.257	.147	.047	.244	.140	.045	.232	.134	.043	.221	.128	.041	
2.0	.261	.143	.044	.255	.140	.043	.244	.135	.042	.233	.131	.041	.223	.126	.040	
3.0	.250	.133	.040	.245	.131	.039	.235	.127	.039	.225	.124	.038	.217	.120	.037	
4.0	.237	.123	.036	.232	.122	.036	.223	.118	.035	.215	.115	.035	.207	.113	.034	
5.0	.223	.114	.033	.219	.112	.033	.211	.110	.032	.204	.107	.032	.197	.105	.032	
6.0	.210	.105	.030	.206	.104	.030	.199	.102	.030	.192	.100	.029	.186	.098	.029	
7.0	.198	.098	.028	.194	.097	.028	.188	.095	.027	.182	.093	.027	.176	.091	.027	
8.0	.186	.091	.026	.183	.090	.025	.177	.088	.025	.172	.087	.025	.166	.085	.025	
9.0	.175	.085	.024	.172	.084	.024	.167	.083	.023	.162	.081	.023	.158	.080	.023	
10.0	.165	.079	.022	.163	.079	.022	.158	.077	.022	.154	.076	.022	.150	.075	.022	

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	.177	.157	.138	.152	.134	.119	.104	.092	.082	.060	.053	.048	.019	.017	.015	
2.0	.168	.132	.102	.144	.114	.088	.099	.079	.061	.057	.046	.036	.018	.015	.012	
3.0	.161	.114	.077	.138	.098	.067	.095	.068	.047	.055	.040	.028	.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	.127	.078	.042	.087	.055	.030	.050	.032	.018	.016	.010	.006	
6.0	.141	.082	.040	.121	.071	.035	.084	.050	.024	.049	.029	.015	.016	.010	.005	
7.0	.135	.075	.033	.116	.065	.029	.080	.046	.021	.047	.027	.012	.015	.009	.004	
8.0	.129	.070	.029	.111	.060	.025	.077	.042	.018	.045	.025	.011	.014	.008	.003	
9.0	.123	.065	.025	.106	.056	.022	.074	.039	.016	.043	.023	.009	.014	.008	.003	
10.0	.118	.061	.022	.102	.053	.019	.071	.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:2017-03-24

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	26.9	28.4	27.2	28.6	28.8	26.9	28.4	27.2	28.6	28.8
	3H	26.8	28.2	27.1	28.4	28.6	27.0	28.3	27.3	28.6	28.8
	4H	26.7	28.0	27.0	28.3	28.5	26.9	28.2	27.2	28.4	28.7
	6H	26.6	27.8	27.0	28.1	28.4	26.8	28.0	27.1	28.3	28.5
	8H	26.6	27.7	26.9	28.0	28.3	26.8	27.9	27.1	28.2	28.5
	12H	26.5	27.6	26.9	27.9	28.2	26.7	27.8	27.1	28.1	28.4
4H	2H	26.9	28.2	27.2	28.4	28.7	26.9	28.2	27.2	28.5	28.7
	3H	26.8	28.0	27.2	28.2	28.5	27.0	28.1	27.4	28.4	28.7
	4H	26.8	27.8	27.1	28.1	28.4	27.0	28.0	27.3	28.3	28.6
	6H	26.7	27.6	27.1	27.9	28.3	26.9	27.8	27.3	28.1	28.5
	8H	26.7	27.5	27.1	27.8	28.2	26.8	27.7	27.3	28.0	28.4
	12H	26.6	27.4	27.1	27.8	28.2	26.8	27.5	27.2	27.9	28.3
8H	4H	26.7	27.5	27.1	27.8	28.2	26.8	27.6	27.3	28.0	28.4
	6H	26.6	27.3	27.1	27.7	28.1	26.8	27.4	27.2	27.8	28.3
	8H	26.6	27.2	27.1	27.6	28.0	26.8	27.3	27.2	27.8	28.2
	12H	26.6	27.1	27.0	27.5	28.0	26.7	27.2	27.2	27.7	28.1
12H	4H	26.6	27.4	27.1	27.7	28.1	26.8	27.5	27.2	27.9	28.3
	6H	26.6	27.2	27.0	27.6	28.0	26.8	27.3	27.2	27.8	28.2
	8H	26.6	27.1	27.0	27.5	28.0	26.7	27.2	27.2	27.7	28.1
Variations with the observer position at spacings:											
S = 1.0H		+ 0.5 / - 0.6					+ 0.4 / - 0.5				
1.5H		+ 1.0 / - 2.8					+ 1.0 / - 2.6				
2.0H		+ 2.2 / - 4.7					+ 2.3 / - 4.9				

CIE Pub.117 Corrected 21426 lm Total Lamp Luminous Flux.(8log(F/F0) = 10.6)

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-03-24

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	54	42	35	53	42	34	52	41	34	28
0.80	66	54	47	65	54	47	64	53	46	39
1.00	77	66	59	76	66	59	74	67	58	51
1.25	85	75	69	84	75	68	81	73	67	60
1.50	91	81	75	89	80	74	86	79	73	66
2.00	98	90	84	96	89	84	93	87	82	75
2.50	101	94	89	99	93	88	95	90	86	78
3.00	104	98	93	102	97	92	98	94	90	82
4.00	108	102	98	105	101	97	101	97	94	86
5.00	110	105	101	107	103	100	103	100	97	88
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004				Suspended					SHRNOM = 1.25	

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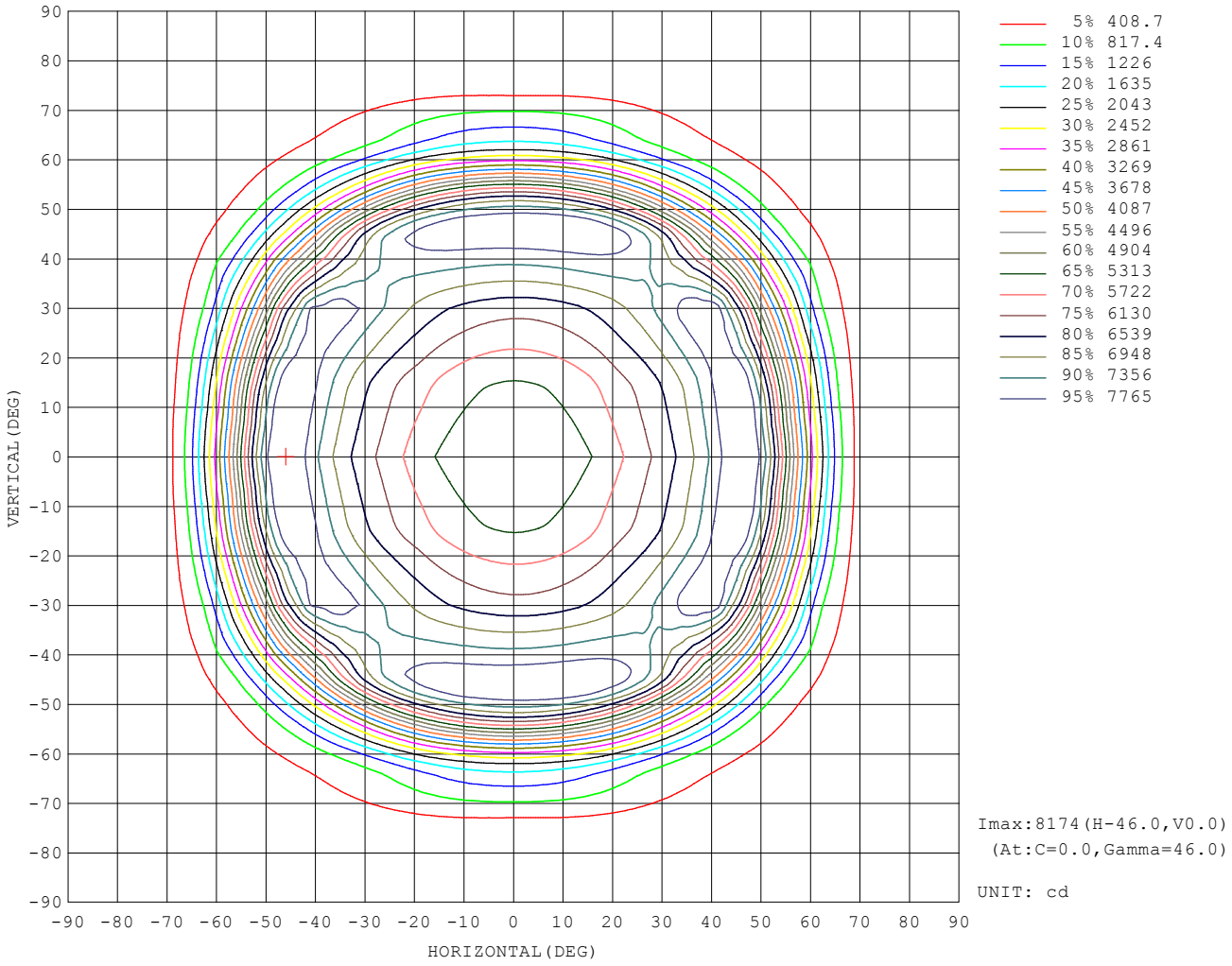
Test Distance:9.500m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM



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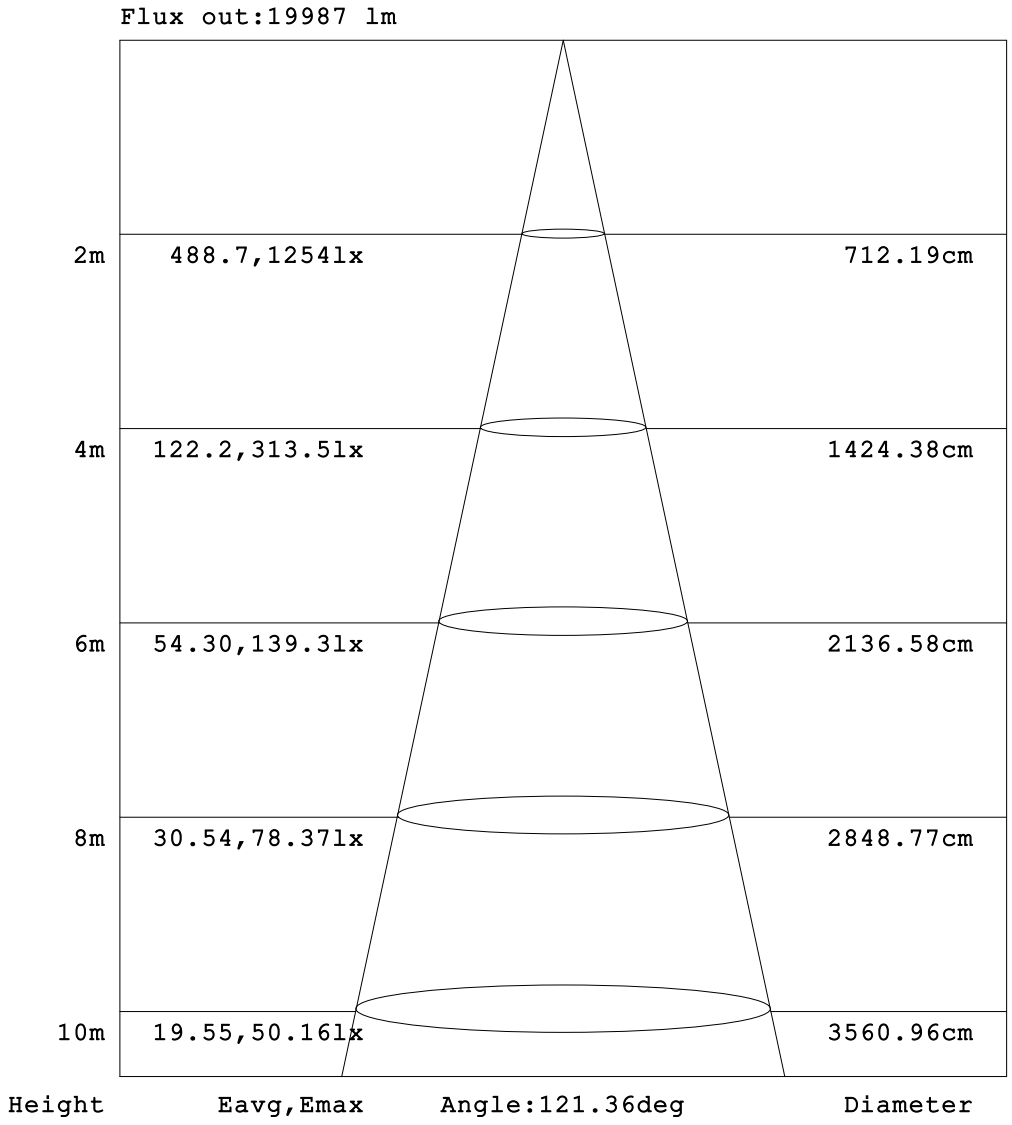
Humidity:65.0%
Test Distance:9.500m [K=1.0000]
Remarks:

AAI Figure



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

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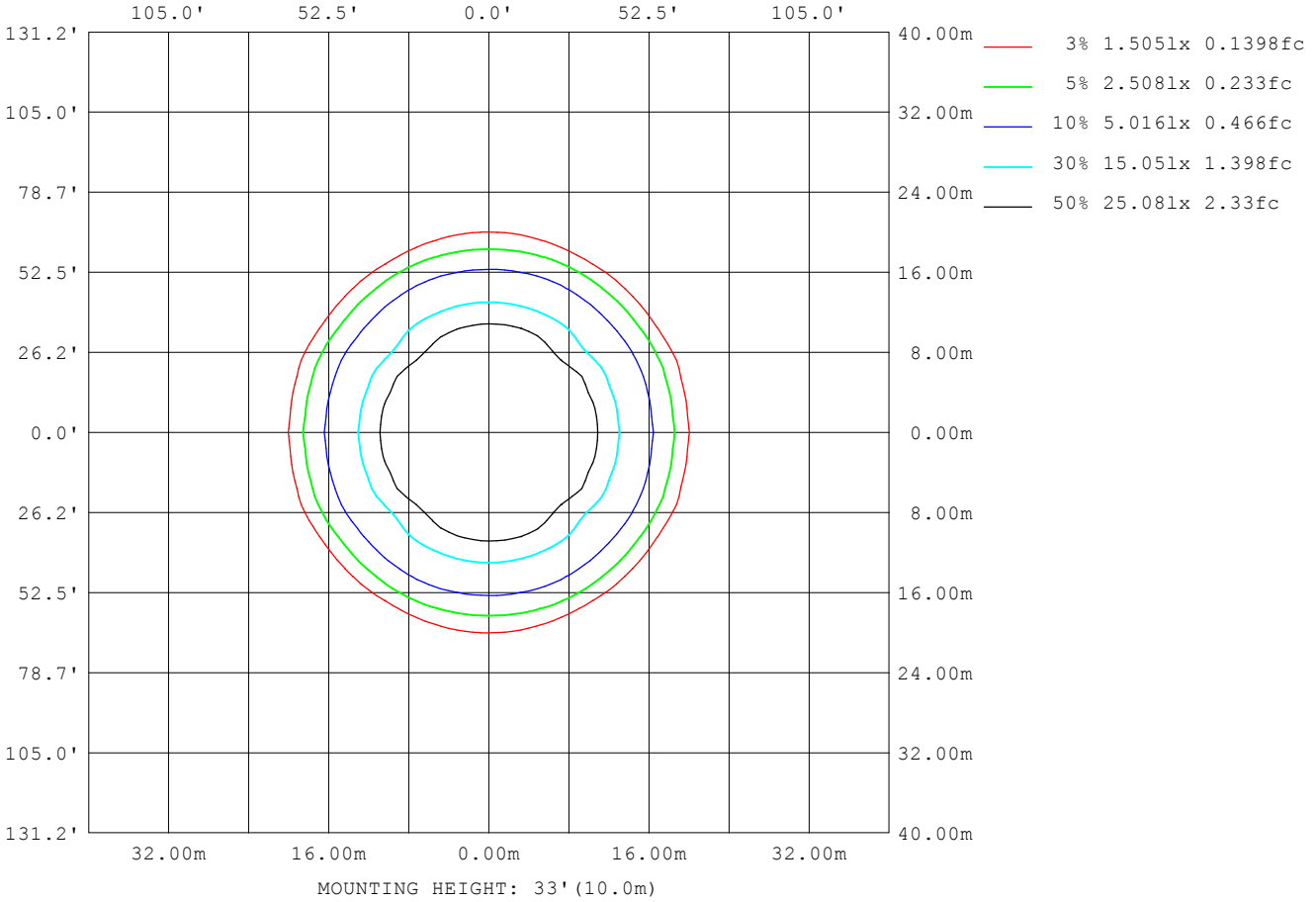
Humidity:65.0%
Test Distance:9.500m [K=1.0000]
Remarks:

ISOLUX DIAGRAM



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Remarks:

LED Avg.L Report

Test:U:229.9V I:0.8024A P:178.3W PF:0.9663 Lamp Flux:21425.7x1 lm		
NAME: LHB01-180	TYPE:180W	WEIGHT:
SPEC.:4000K Ra80 120DEG L02803	DIM.: 0.718*0.275*0.102	SERIAL No.:
MFR.:	SUR.:0.255*0.69	Shielding Angle:

AvgL	cd/m2
L_0~180(65)av	15799
L_0~180(75)av	4531
L_0~180(85)av	2263
L_90~270(65)av	19230
L_90~270(75)av	4423
L_90~270(85)av	3411
L_45(65)av	15323
L_45(75)av	5355
L_45(85)av	3830

Standard: GB/T 29293-2012

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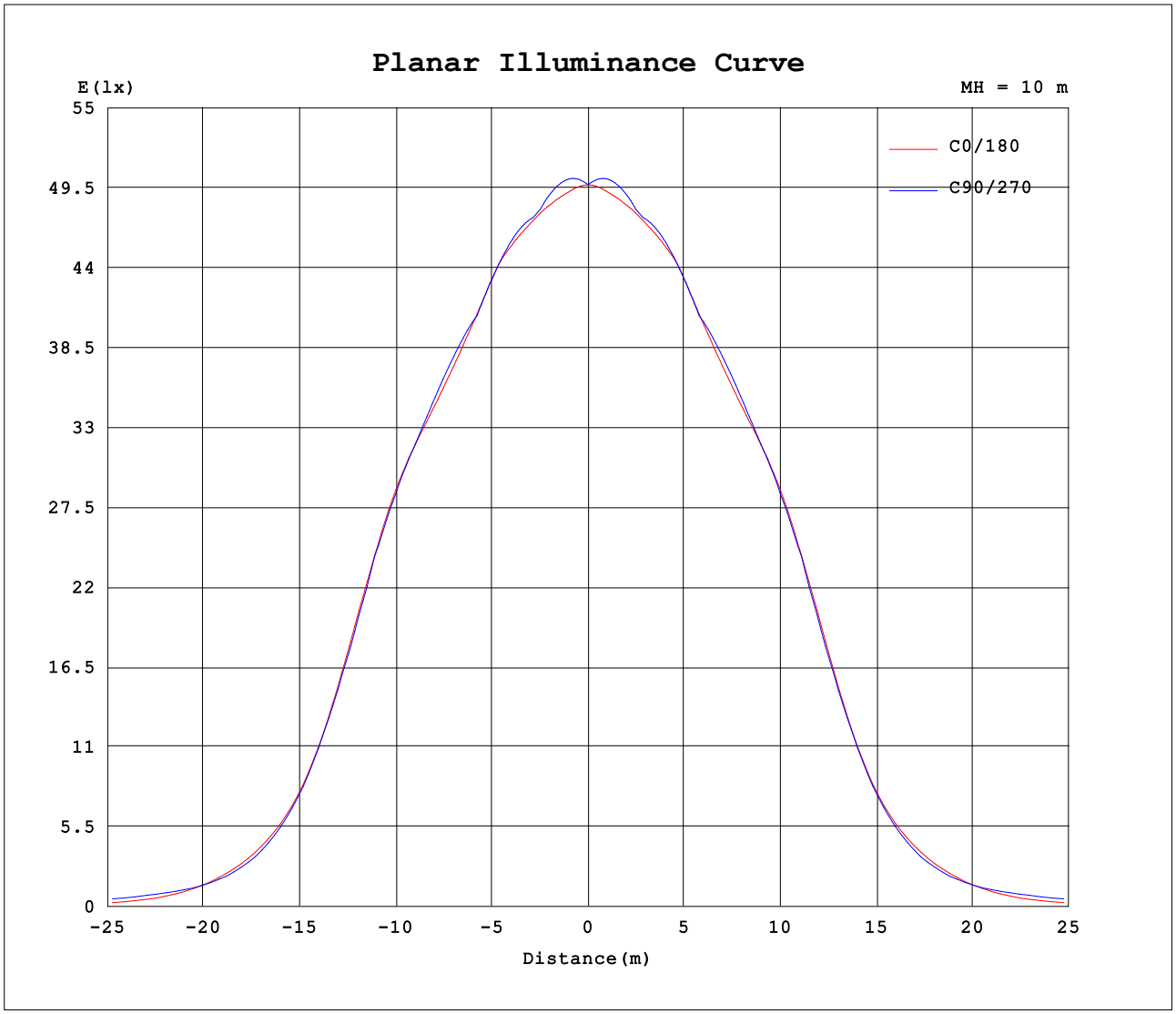
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-03-24

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:2017-03-24

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	4971	4971	4971	4971	4971	4971	4971	4971	4971	4971	4971	4971	4971	4971	4971	4971	4971	4971	4971
5	4990	4999	5008	5017	5024	5032	5038	5044	5049	5054	5058	5062	5065	5067	5069	5071	5071	5072	5072
10	5085	5104	5121	5135	5147	5156	5164	5170	5173	5175	5177	5177	5177	5177	5176	5175	5175	5174	5174
15	5271	5301	5324	5342	5354	5361	5362	5360	5354	5346	5336	5326	5315	5305	5298	5299	5299	5298	5299
20	5558	5597	5625	5642	5649	5645	5634	5616	5593	5574	5568	5572	5582	5590	5596	5600	5603	5605	5607
25	5939	5971	5990	5996	5993	5985	5971	5956	5949	5952	5951	5950	5947	5943	5940	5937	5935	5936	5939
30	6288	6329	6350	6351	6333	6301	6306	6349	6379	6380	6361	6340	6322	6304	6289	6277	6268	6266	6271
35	6770	6818	6832	6813	6765	6770	6821	6842	6836	6813	6778	6735	6755	6791	6826	6853	6872	6883	6889
40	7435	7491	7491	7441	7382	7424	7452	7441	7394	7284	7203	7231	7302	7376	7434	7473	7497	7507	7508
45	8125	8134	8136	8100	7940	7940	8033	8084	7538	7318	7372	7553	7751	7912	8022	8086	8074	8064	8053
50	7678	7537	7605	7553	7328	7452	7675	7107	6711	6715	7083	7533	7697	7696	7718	7631	7595	7577	7562
55	5369	5187	5315	5258	5228	5362	5326	5150	5035	5232	5308	5332	5347	5355	5337	5333	5332	5321	5317
60	3007	2901	2962	2916	2988	2953	2938	2871	2832	2832	2830	2839	2866	2885	2876	2843	2800	2766	2752
65	1175	1128	1163	1146	1279	1194	1096	1104	1081	1123	1114	1084	1106	1167	1235	1302	1373	1416	1430
70	295	310	372	415	428	401	400	410	408	418	438	492	555	629	702	753	778	786	786
75	206	188	178	206	230	235	237	237	236	239	247	255	258	252	241	241	231	212	201
80	127	121	115	116	134	138	132	122	113	107	112	116	116	115	115	117	114	103	96.9
85	34.7	40.4	45.0	47.4	48.2	54.3	57.2	57.6	57.1	57.5	59.7	61.7	62.2	61.6	61.5	62.4	61.0	55.6	52.3
90	5.67	9.08	9.98	9.83	9.49	9.14	8.88	8.66	8.49	8.37	8.26	8.16	8.05	7.97	7.92	7.87	7.82	7.77	7.74

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-03-24

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	4971	4971	4971	4971	4971	4971	4971	4971	4971	4971	4971	4971	4971	4971	4971	4971	4971	4971	4971
5	5072	5072	5071	5070	5068	5066	5063	5060	5056	5051	5045	5039	5033	5025	5017	5009	5000	4990	5000
10	5175	5176	5178	5179	5181	5182	5182	5183	5181	5180	5176	5170	5162	5152	5139	5123	5105	5085	5105
15	5300	5302	5305	5306	5315	5328	5340	5352	5362	5371	5375	5376	5373	5364	5350	5330	5303	5271	5303
20	5610	5613	5614	5614	5612	5608	5600	5597	5602	5621	5643	5658	5665	5662	5649	5628	5598	5558	5598
25	5945	5954	5963	5973	5981	5988	5993	5997	5997	5983	5964	5963	5981	5996	6002	5995	5974	5939	5974
30	6282	6297	6316	6337	6357	6380	6405	6427	6433	6422	6391	6336	6325	6359	6375	6369	6340	6288	6340
35	6888	6881	6868	6848	6827	6815	6832	6883	6922	6940	6933	6901	6845	6839	6876	6877	6842	6770	6842
40	7497	7478	7448	7404	7348	7291	7258	7285	7428	7533	7543	7519	7486	7476	7525	7543	7514	7435	7514
45	8036	8021	8012	7926	7803	7646	7482	7365	7374	7598	8055	7948	7874	7920	8091	8109	8114	8125	8114
50	7545	7532	7540	7591	7551	7528	7372	7009	6715	6678	6967	7486	7347	7265	7484	7559	7518	7678	7518
55	5323	5341	5355	5348	5359	5342	5329	5308	5218	4970	5020	5251	5355	5192	5226	5301	5178	5369	5178
60	2759	2786	2824	2853	2858	2833	2795	2780	2776	2756	2796	2921	2932	2941	2893	2936	2881	3007	2881
65	1418	1381	1314	1253	1190	1128	1113	1145	1157	1128	1146	1141	1220	1295	1180	1175	1137	1175	1137
70	787	784	762	715	648	578	515	459	438	427	427	414	411	436	419	375	299	295	299
75	213	234	245	247	260	269	268	259	249	246	246	246	241	237	213	185	195	206	195
80	104	116	119	118	119	122	122	118	113	118	127	136	143	141	123	122	125	127	125
85	55.9	62.1	63.6	63.0	63.7	64.8	64.6	62.2	60.0	59.3	59.3	59.0	56.2	50.2	48.5	44.9	39.2	34.7	39.2
90	7.75	7.83	7.88	7.92	7.98	7.90	7.87	7.82	7.83	7.88	7.97	8.06	8.19	8.34	8.54	8.79	8.36	5.67	8.36

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-03-24

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

γ (DEG) \ C(DEG)	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280
0	4971	4971	4971	4971	4971	4971	4971	4971	4971	4971	4971	4971	4971	4971	4971	4971	4971	4971	4971
5	5009	5017	5025	5033	5039	5045	5051	5056	5060	5063	5066	5068	5070	5071	5072	5072	5072	5072	5071
10	5123	5139	5152	5162	5170	5176	5180	5181	5183	5182	5182	5181	5179	5178	5176	5175	5174	5174	5175
15	5330	5350	5364	5373	5376	5375	5371	5362	5352	5340	5328	5315	5306	5305	5302	5300	5299	5298	5299
20	5628	5649	5662	5665	5658	5643	5621	5602	5597	5600	5608	5612	5614	5614	5613	5610	5607	5605	5603
25	5995	6002	5996	5981	5963	5964	5983	5997	5997	5993	5988	5981	5973	5963	5954	5945	5939	5936	5935
30	6369	6375	6359	6325	6336	6391	6422	6433	6427	6405	6380	6357	6337	6316	6297	6282	6271	6266	6268
35	6877	6876	6839	6845	6901	6933	6940	6922	6883	6832	6815	6827	6848	6868	6881	6888	6889	6883	6872
40	7543	7525	7476	7486	7519	7543	7533	7428	7285	7258	7291	7348	7404	7448	7478	7497	7508	7507	7497
45	8109	8091	7920	7874	7948	8055	7598	7374	7365	7482	7646	7803	7926	8012	8021	8036	8053	8064	8074
50	7559	7484	7265	7347	7486	6967	6678	6715	7009	7372	7528	7551	7591	7540	7532	7545	7562	7577	7595
55	5301	5226	5192	5355	5251	5020	4970	5218	5308	5329	5342	5359	5348	5355	5341	5323	5317	5321	5332
60	2936	2893	2941	2932	2921	2796	2756	2776	2780	2795	2833	2858	2853	2824	2786	2759	2752	2766	2800
65	1175	1180	1295	1220	1141	1146	1128	1157	1145	1113	1128	1190	1253	1314	1381	1418	1430	1416	1373
70	375	419	436	411	414	427	427	438	459	515	578	648	715	762	784	787	786	786	778
75	185	213	237	241	246	246	246	249	259	268	269	260	247	245	234	213	201	212	231
80	122	123	141	143	136	127	118	113	118	122	122	119	118	119	116	104	96.9	103	114
85	44.9	48.5	50.2	56.2	59.0	59.3	59.3	60.0	62.2	64.6	64.8	63.7	63.0	63.6	62.1	55.9	52.3	55.6	61.0
90	8.79	8.54	8.34	8.19	8.06	7.97	7.88	7.83	7.82	7.87	7.90	7.98	7.92	7.88	7.83	7.75	7.74	7.77	7.82

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-03-24

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

C(DEG) / γ (DEG)	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355				
0	4971	4971	4971	4971	4971	4971	4971	4971	4971	4971	4971	4971	4971	4971	4971				
5	5071	5069	5067	5065	5062	5058	5054	5049	5044	5038	5032	5024	5017	5008	4999				
10	5175	5176	5177	5177	5177	5177	5175	5173	5170	5164	5156	5147	5135	5121	5104				
15	5299	5298	5305	5315	5326	5336	5346	5354	5360	5362	5361	5354	5342	5324	5301				
20	5600	5596	5590	5582	5572	5568	5574	5593	5616	5634	5645	5649	5642	5625	5597				
25	5937	5940	5943	5947	5950	5951	5952	5949	5956	5971	5985	5993	5996	5990	5971				
30	6277	6289	6304	6322	6340	6361	6380	6379	6349	6306	6301	6333	6351	6350	6329				
35	6853	6826	6791	6755	6735	6778	6813	6836	6842	6821	6770	6765	6813	6832	6818				
40	7473	7434	7376	7302	7231	7203	7284	7394	7441	7452	7424	7382	7441	7491	7491				
45	8086	8022	7912	7751	7553	7372	7318	7538	8084	8033	7940	7940	8100	8136	8134				
50	7631	7718	7696	7697	7533	7083	6715	6711	7107	7675	7452	7328	7553	7605	7537				
55	5333	5337	5355	5347	5332	5308	5232	5035	5150	5326	5362	5228	5258	5315	5187				
60	2843	2876	2885	2866	2839	2830	2832	2832	2871	2938	2953	2988	2916	2962	2901				
65	1302	1235	1167	1106	1084	1114	1123	1081	1104	1096	1194	1279	1146	1163	1128				
70	753	702	629	555	492	438	418	408	410	400	401	428	415	372	310				
75	241	241	252	258	255	247	239	236	237	237	235	230	206	178	188				
80	117	115	115	116	116	112	107	113	122	132	138	134	116	115	121				
85	62.4	61.5	61.6	62.2	61.7	59.7	57.5	57.1	57.6	57.2	54.3	48.2	47.4	45.0	40.4				
90	7.87	7.92	7.97	8.05	8.16	8.26	8.37	8.49	8.66	8.88	9.14	9.49	9.83	9.98	9.08				

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-03-24

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: