

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

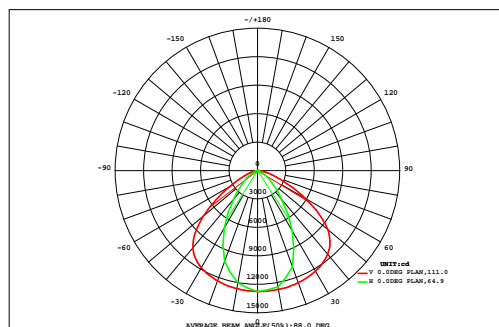
Maximum Intensity (Luminaire orientation as tested.)		575.0 cd per klm. 0.0 degrees vertical 0.0 degrees horizontal
Beam Spread	At 10% of Imax	112.2V x 144.3H
	At 50% of Imax	64.9V x 111.0H
	At 90% of Imax	29.3V x 74.5H
Beam Flux	Total	1000.3 lumens per klm.
	To 10% of Imax	945.2 lumens per klm.
	To 50% of Imax	688.9 lumens per klm.
	To 90% of Imax	262.5 lumens per klm.
Upward LOR		0.0 %
Downward LOR		100.0 %
Luminaire Efficiency(Light Output Ratio)		100.0 %

H(θ) Range:-90 - 90DEG
H(θ) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:23 October 2023

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:11.900m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:231.6V I:0.6525A P:145.4W PF:0.9625 Freq:60.08Hz Lamp Flux:22164.7x1 lm		
NAME: HBL200W-03-G4-4000K-75%	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



DATA OF LAMP		Eff:152.42lm/W	
MODEL		Imax(cd)	12744
NOMINAL POWER(W)	150	AVAILABILITY(%)	94.5
RATED VOLTAGE(V)	230	Avai. FLUX(lm)	20939
NOMINAL FLUX(lm)	22164.7	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	22165
TEST VOLTAGE(V)	230	q @50%(H,V)	111,65DEG

AREA FLUX DIAGRAM																	UNIT:lm		F t	F a
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
80	0.35	1.49	2.80	3.87	4.66	5.27	5.76	6.13	6.33	6.35	6.18	5.84	5.36	4.76	3.98	2.91	1.59	0.38	74.0	0.00
70	0.35	1.91	4.13	6.29	8.31	10.4	12.6	14.6	15.8	15.9	14.8	12.9	10.7	8.50	6.39	4.20	1.94	0.34	150	0.00
60	0.41	2.63	6.40	10.7	15.5	21.7	28.8	35.5	39.5	39.6	35.7	29.1	21.9	15.7	10.7	6.38	2.57	0.36	323	118
50	0.48	3.54	9.74	18.0	28.6	43.0	60.4	76.0	85.1	84.8	75.5	59.8	42.6	28.2	17.7	9.53	3.35	0.39	647	559
40	0.56	4.70	14.8	30.4	52.2	82.5	117	145	160	159	143	115	80.6	50.9	29.7	14.2	4.31	0.43	1204	1172
30	0.65	6.13	22.2	51.9	95.2	151	204	242	260	258	237	198	145	91.6	49.9	20.8	5.39	0.49	2039	2022
20	0.75	7.64	31.7	83.6	158	233	290	325	341	340	321	282	222	149	78.3	28.4	6.43	0.54	2897	2884
10	0.82	8.73	39.9	114	210	285	334	365	380	379	362	329	276	198	104	34.4	7.11	0.57	3427	3415
0	0.85	9.07	42.2	121	218	291	339	370	385	385	369	337	287	208	108	35.0	7.18	0.59	3512	3501
-10	0.82	8.36	36.4	97.7	177	250	305	340	356	357	339	304	247	168	86.2	30.1	6.69	0.58	3109	3096
-20	0.76	7.17	27.1	63.4	111	169	223	261	280	279	259	219	162	103	55.7	22.6	5.78	0.55	2248	2232
-30	0.69	5.79	18.6	36.9	59.1	89.0	123	152	168	167	149	118	83.2	54.7	33.6	16.1	4.84	0.52	1280	1256
-40	0.63	4.58	12.5	21.8	32.6	46.2	61.6	75.1	82.8	81.8	72.5	58.0	42.9	30.6	20.6	11.3	3.92	0.49	660	588
-50	0.56	3.50	8.22	13.0	18.1	24.1	30.7	36.4	39.5	38.9	35.1	29.1	22.9	17.5	12.8	7.79	3.11	0.45	342	96.5
-60	0.48	2.53	5.18	7.51	9.64	11.7	13.8	15.3	16.0	15.8	14.9	13.3	11.5	9.60	7.60	5.09	2.33	0.39	162	0.00
-70	0.38	1.65	2.98	4.02	4.79	5.37	5.74	5.94	6.00	5.98	5.89	5.68	5.33	4.83	4.09	2.99	1.57	0.32	73.6	0.00
-80	0.18	0.54	0.80	0.98	1.09	1.14	1.15	1.13	1.12	1.13	1.17	1.20	1.21	1.18	1.07	0.83	0.47	0.10	16.5	0.00
-90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-90 -80 -70 -60 -50 -40 -30 -20 HORIZONTAL(DEG) 20 30 40 50 60 70 80 90																				
F t	9.72	80.0	286	685	1203	1719	2155	2465	2622	2613	2441	2115	1668	1145	630	253	68.6	7.50	22165	---
F a	0.00	24.9	211	611	1124	1638	2077	2390	2546	2534	2364	2036	1579	1066	550	173	14.8	0.00	---	20939

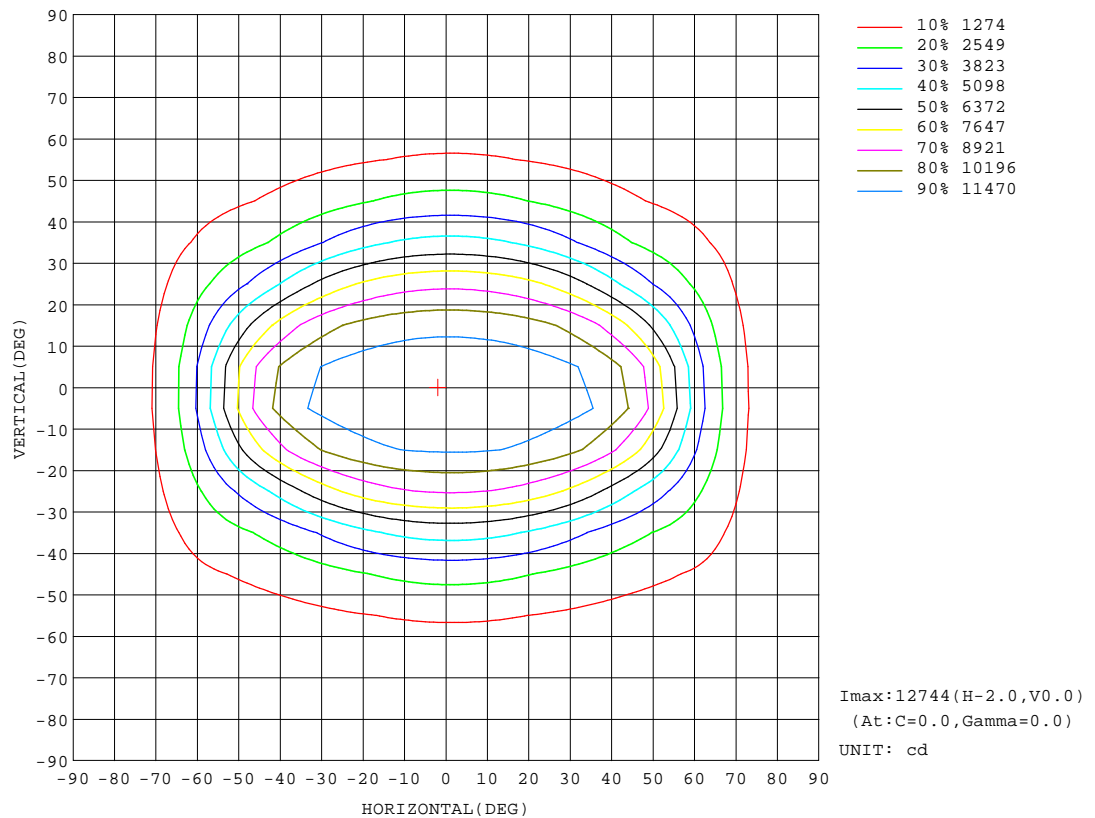
one-half-peak spread: U:32.9,D:32.4 , L:56.7, ~~NEMA~~ Beam Type: Type 7 x 6 (H x V)

H(B) Range:-90 - 90DEG
H(B) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:23 October 2023

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:11.900m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:231.6V I:0.6525A P:145.4W PF:0.9625 Freq:60.08Hz Lamp Flux:22164.7x1 lm		
NAME: HBL200W-03-G4-4000K-75%	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

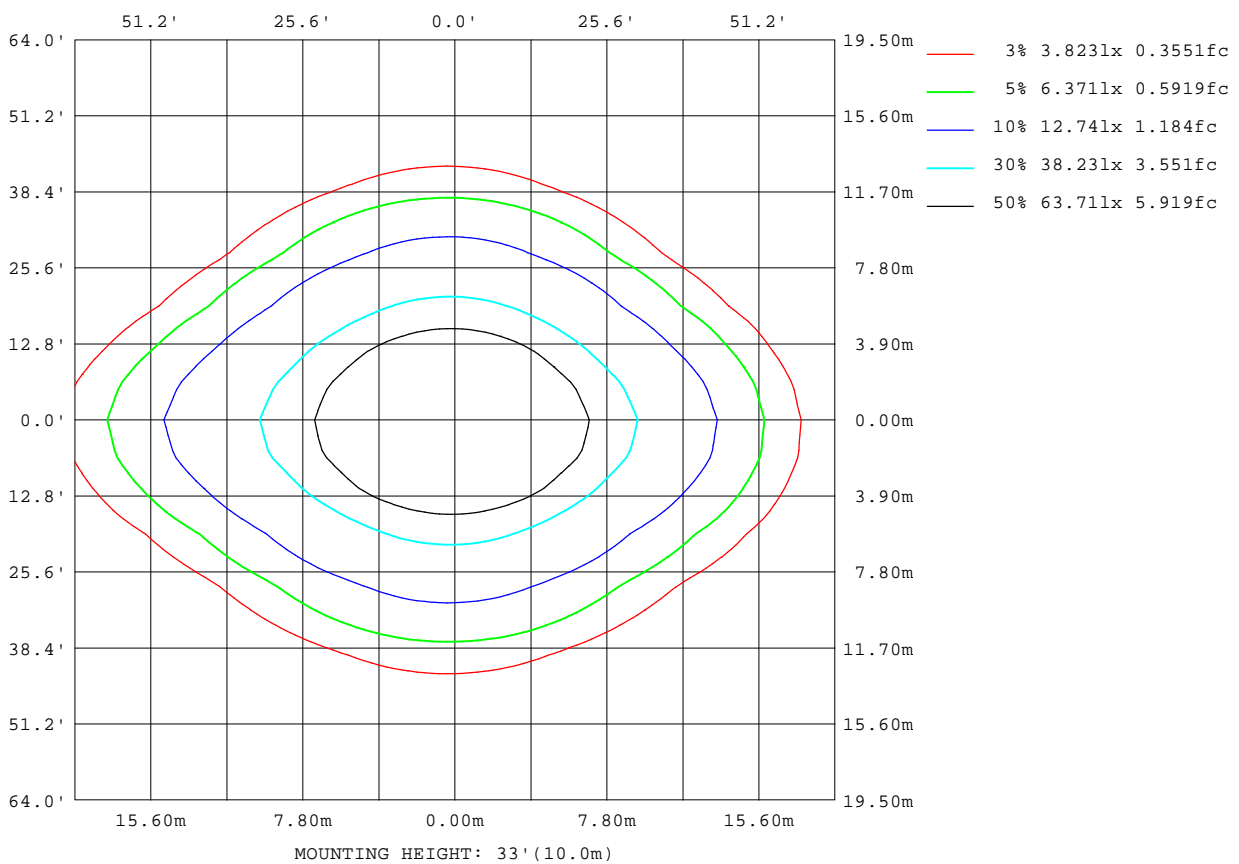


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Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:23 October 2023

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Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
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Remarks:

ISOLUX DIAGRAM

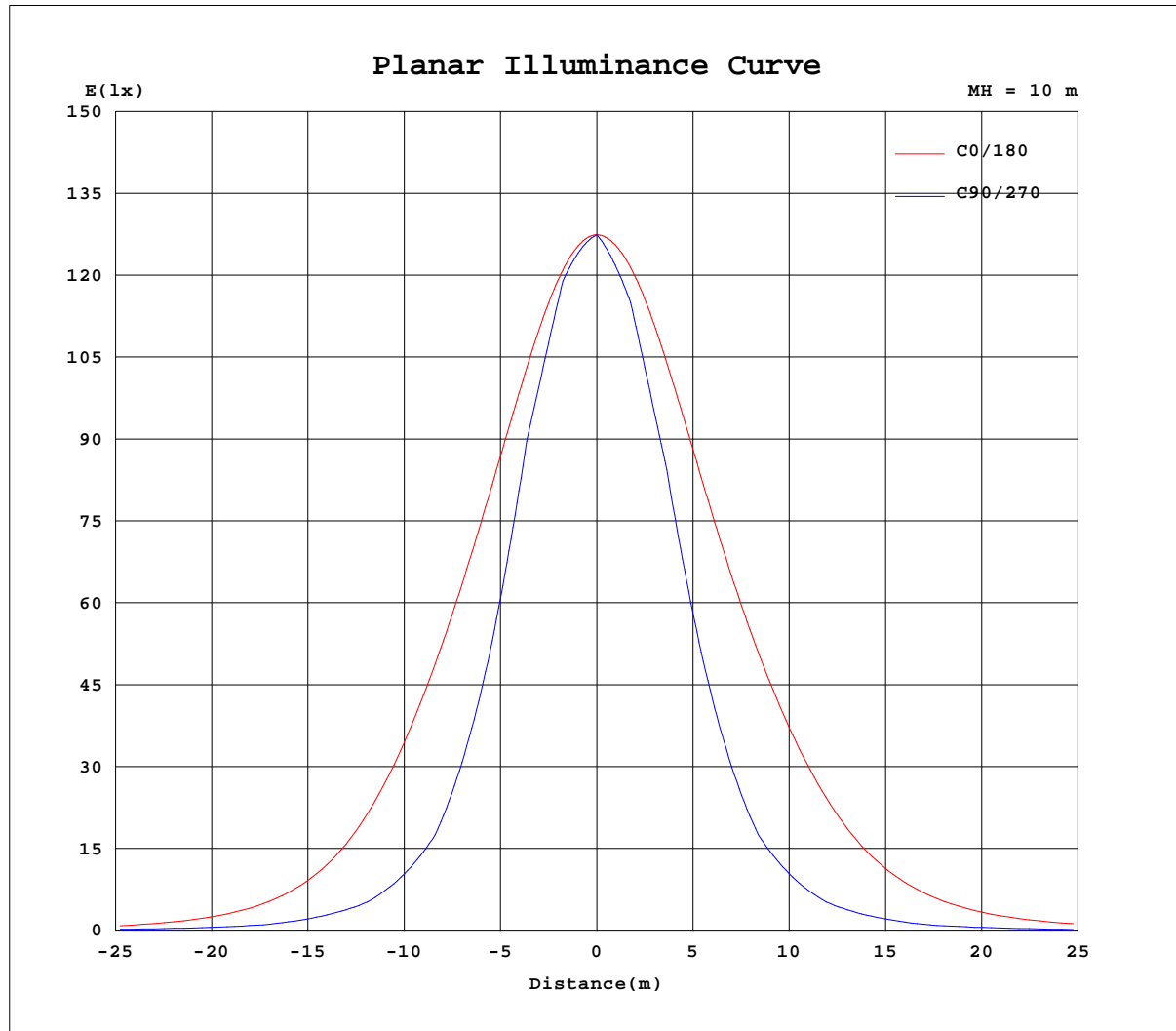
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H(θ) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:23 October 2023

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:11.900m [K=1.0000]
Remarks:

Planar Illuminance Curve



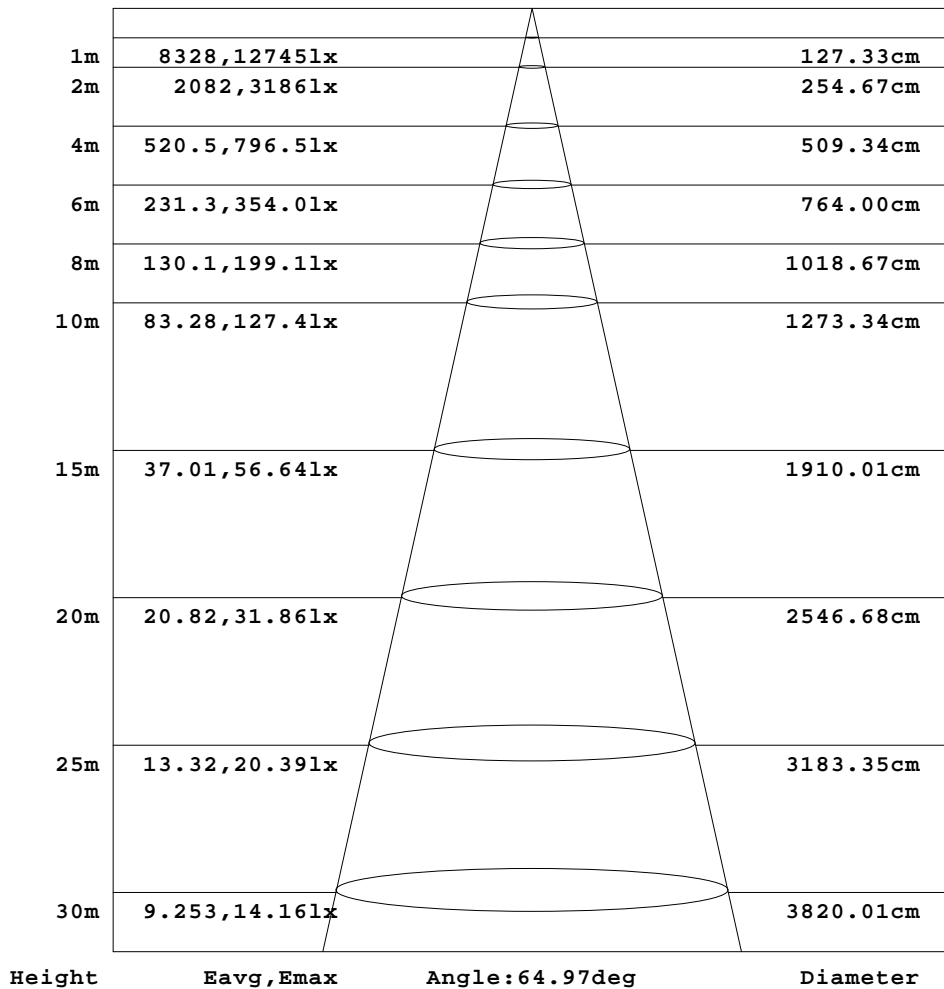
H(ϕ) Range:-90 - 90DEG
H(ϕ) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:23 October 2023

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:11.900m [K=1.0000]
Remarks:

AAI Figure

Test:U:231.6V I:0.6525A P:145.4W PF:0.9625 Freq:60.08Hz Lamp Flux:22164.7x1 lm		
NAME: HBL200W-03-G4-4000K-75%	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

Flux out:10618 lm



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

H(θ) Range: -90 - 90DEG
H(θ) Interval: 1.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 23 October 2023

V(B) Range: -80 - 80DEG
V(B) Interval: 5.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 11.900m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:231.6V I:0.6525A P:145.4W PF:0.9625 Freq:60.08Hz Lamp Flux:22164.7x1 lm		
NAME: HBL200W-03-G4-4000K-75%	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

Table--1

UNIT: x10cd

H(°)	-90	-85	-80	-75	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
V(°)	-90	-85	-80	-75	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
-90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-80	8.12	12.2	14.4	15.6	16.1	16.1	15.8	15.5	15.0	14.6	14.2	13.9	13.6	13.3	13.1	12.9	12.8	12.7	12.7
-75	6.12	9.29	15.3	19.1	21.7	23.2	23.8	23.9	23.8	23.6	23.4	23.3	23.3	23.3	23.4	23.4	23.4	23.4	23.5
-70	8.43	16.2	22.5	27.0	29.9	31.3	32.0	32.2	32.2	32.3	32.5	32.7	33.0	33.4	33.7	33.9	34.1	34.2	34.2
-65	6.20	9.89	20.0	28.1	34.6	39.2	42.1	43.8	45.0	46.2	47.6	49.3	51.2	53.5	55.5	57.3	58.7	59.6	60.1
-60	8.51	19.9	30.7	39.8	47.0	51.9	55.0	57.4	59.7	62.3	65.4	68.9	72.9	76.9	80.2	83.0	84.9	85.9	85.9
-55	6.20	9.98	24.0	37.0	49.3	60.1	68.1	73.9	78.9	84.2	90.5	97.7	106	114	123	130	136	140	141
-50	8.09	22.4	38.2	54.0	69.2	81.5	90.7	98.4	106	116	127	139	152	165	177	186	193	196	196
-45	6.05	9.72	27.4	45.7	66.3	87.6	106	121	135	150	166	186	207	228	249	266	280	290	294
-40	7.58	24.8	45.5	69.9	97.7	124	146	166	186	210	236	266	296	324	349	369	384	390	389
-35	5.85	9.37	30.4	54.5	85.9	123	162	198	232	266	305	349	395	440	480	513	537	554	560
-30	7.07	26.6	53.0	88.0	133	184	236	284	331	383	443	505	566	621	665	697	719	729	728
-25	5.70	9.20	33.4	63.7	108	168	240	319	396	473	553	634	707	770	820	857	883	898	905
-20	6.92	28.9	60.3	108	176	265	370	478	585	691	793	881	950	1001	1036	1059	1073	1079	1079
-15	5.59	9.23	36.0	71.8	129	213	330	470	615	748	863	955	1024	1074	1109	1134	1150	1159	1162
-10	6.84	30.4	66.2	123	212	344	513	695	861	993	1084	1142	1180	1206	1223	1235	1242	1245	1245
-5	5.41	9.22	37.6	77.0	142	244	394	583	778	941	1056	1130	1176	1207	1228	1243	1253	1258	1260
0	6.64	31.3	68.6	130	228	377	574	786	964	1082	1151	1194	1223	1243	1257	1267	1272	1274	1274
5	5.08	8.83	37.2	76.3	140	241	387	569	757	915	1027	1101	1149	1182	1204	1221	1232	1238	1240
10	6.03	29.6	64.8	120	206	331	488	655	809	935	1025	1087	1130	1158	1178	1193	1201	1205	1203
15	4.67	8.13	34.6	69.4	124	203	311	438	569	694	806	898	969	1020	1055	1081	1098	1108	1112
20	5.45	27.3	57.4	102	164	244	335	431	531	636	737	825	892	940	975	998	1012	1018	1017
25	4.37	7.44	30.8	59.3	99.9	153	215	283	354	429	511	593	669	731	779	815	841	856	862
30	5.01	23.9	48.0	79.3	118	160	203	248	296	353	417	484	547	601	643	675	695	705	704
35	4.29	6.99	26.6	48.1	75.1	106	138	169	202	238	281	328	379	427	468	502	527	542	549
40	5.05	21.0	38.9	59.3	81.9	103	123	142	164	190	220	253	287	320	348	370	384	391	391
45	4.52	6.95	22.7	38.0	55.0	72.1	87.5	101	115	131	150	172	196	221	244	265	280	290	294
50	5.44	18.1	30.8	43.8	55.9	66.2	74.9	83.1	92.1	103	115	130	145	160	174	185	193	197	197
55	5.16	7.28	19.2	29.6	39.7	48.5	55.6	61.4	66.8	72.9	80.1	88.5	97.9	108	118	126	133	138	140
60	6.33	15.8	24.3	31.7	37.8	42.4	45.6	48.4	51.1	54.3	58.0	62.2	66.6	71.1	75.7	79.0	81.3	82.6	82.6
65	6.17	7.91	16.1	22.5	27.8	31.9	34.7	36.6	38.1	39.7	41.4	43.5	45.8	48.3	50.7	53.2	54.9	56.1	56.6
70	7.39	13.4	18.3	22.0	24.6	26.2	27.0	27.3	27.6	27.8	28.1	28.4	28.9	29.3	29.8	30.1	30.4	30.5	30.5
75	7.32	8.42	12.9	15.9	18.2	19.6	20.3	20.5	20.5	20.4	20.3	20.2	20.2	20.3	20.4	20.5	20.6	20.6	20.7
80	8.19	10.8	12.5	13.6	14.2	14.3	14.0	13.7	13.2	12.8	12.4	12.0	11.6	11.4	11.2	11.0	10.9	10.8	10.8
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

H(°) Range:-90 - 90DEG
H(°) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:23 October 2023

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:11.900m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:231.6V I:0.6525A P:145.4W PF:0.9625 Freq:60.08Hz Lamp Flux:22164.7x1 lm		
NAME: HBL200W-03-G4-4000K-75%	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

Table--2

UNIT: x10cd

H(°) V(°)	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
-90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-80	12.8	12.9	13.1	13.4	13.6	13.9	14.3	14.8	15.3	15.9	16.4	16.8	16.9	16.6	15.3	12.6	8.21	8.03
-75	23.5	23.5	23.5	23.5	23.5	23.5	23.6	23.7	24.0	24.3	24.6	24.9	24.7	23.7	21.8	18.6	13.2	8.01
-70	34.2	34.1	33.9	33.7	33.4	33.2	33.0	33.0	33.1	33.2	33.2	32.7	31.0	28.1	23.4	16.4	8.74	8.04
-65	60.0	59.4	58.3	56.8	55.0	53.0	51.1	49.5	48.2	47.1	46.2	45.1	42.9	38.9	33.1	25.6	15.6	8.35
-60	84.9	83.0	80.3	77.0	73.4	69.8	66.6	63.8	61.5	59.6	57.5	54.2	48.6	40.8	30.9	19.2	8.94	8.03
-55	141	138	133	127	119	111	103	95.5	89.1	83.9	79.4	74.4	67.3	57.0	44.9	32.0	17.2	8.41
-50	192	186	176	165	152	139	127	117	108	101	93.5	83.7	69.9	54.1	38.2	21.5	8.76	7.90
-45	292	285	274	258	239	218	197	177	160	145	132	118	100	79.0	57.3	37.7	18.2	8.15
-40	382	367	347	321	292	263	235	209	187	168	148	124	96.8	69.0	44.8	22.6	8.26	7.61
-35	558	546	526	498	461	419	374	329	288	253	219	184	145	106	70.9	43.0	18.8	7.76
-30	716	694	661	617	563	503	441	383	331	284	235	182	131	85.8	51.0	24.0	7.79	7.31
-25	902	891	871	839	797	741	674	597	517	439	362	282	204	137	84.4	47.7	19.2	7.41
-20	1072	1056	1032	996	944	874	785	683	577	471	361	255	167	101	56.6	24.5	7.40	7.07
-15	1162	1155	1142	1121	1092	1050	992	912	809	685	544	397	266	166	95.8	51.3	19.3	7.09
-10	1242	1234	1220	1202	1175	1137	1075	980	846	676	492	325	199	114	60.3	25.3	7.02	6.84
-5	1260	1255	1247	1234	1215	1189	1152	1092	998	856	671	474	304	181	101	52.8	19.2	6.75
0	1271	1264	1253	1236	1215	1185	1137	1059	930	744	532	344	205	115	60.5	24.6	6.62	6.53
5	1238	1233	1225	1210	1189	1160	1119	1058	962	821	643	455	293	176	98.8	51.6	18.6	6.31
10	1198	1189	1174	1151	1119	1073	1007	909	776	618	451	301	187	108	57.5	23.9	6.08	6.14
15	1109	1101	1087	1065	1032	986	924	841	737	615	486	356	241	152	89.1	47.9	17.5	5.76
20	1008	992	966	928	875	803	713	610	505	407	311	223	149	91.5	51.5	21.8	5.46	5.62
25	859	847	826	794	750	692	622	541	458	380	308	239	175	119	74.4	42.2	16.1	5.22
30	692	670	636	591	535	470	403	340	285	238	195	152	110	73.5	43.9	20.0	5.00	5.17
35	546	534	513	483	444	398	348	298	253	214	181	150	119	88.2	59.4	35.9	14.7	4.95
40	382	366	343	314	281	246	213	184	158	137	119	99.4	78.2	56.3	36.4	17.7	4.97	5.08
45	293	285	272	254	232	207	182	159	139	121	107	93.3	79.1	63.0	46.0	30.1	13.6	5.15
50	192	184	172	158	143	128	114	101	90.7	81.8	73.5	64.7	54.5	42.4	29.8	16.2	5.48	5.41
55	139	136	130	122	113	103	93.1	84.2	76.5	69.8	64.0	58.3	52.2	44.3	34.9	24.8	12.8	5.86
60	81.3	78.9	75.4	71.3	66.7	62.2	58.1	54.5	51.3	48.4	45.6	42.3	37.5	31.4	23.9	14.7	6.48	6.15
65	56.5	55.6	54.2	52.2	49.9	47.3	44.9	42.8	40.9	39.2	37.7	36.0	33.8	30.4	25.8	20.1	12.1	6.93
70	30.4	30.2	29.9	29.5	29.0	28.6	28.2	28.0	27.8	27.5	27.1	26.3	24.9	22.4	18.7	13.3	7.66	7.22
75	20.7	20.7	20.6	20.5	20.4	20.3	20.3	20.4	20.5	20.7	20.8	20.8	20.4	19.6	17.9	15.4	11.2	7.94
80	10.9	11.0	11.2	11.4	11.7	12.1	12.5	13.0	13.5	14.0	14.5	14.8	14.8	14.3	13.2	11.2	8.46	8.14
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

H(θ) Range:-90 - 90DEG
H(θ) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:23 October 2023

V(β) Range:-80 - 80DEG
V(β) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:11.900m [K=1.0000]
Remarks: