

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

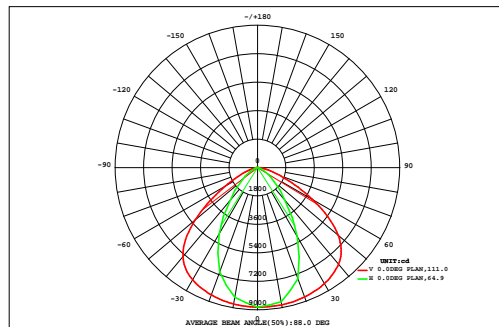
Maximum Intensity (Luminaire orientation as tested.)		575.5 cd per klm. 0.0 degrees vertical 0.0 degrees horizontal
Beam Spread	At 10% of Imax	112.1V x 144.3H
	At 50% of Imax	64.9V x 111.0H
	At 90% of Imax	29.3V x 74.5H
Beam Flux	Total	1000.3 lumens per klm.
	To 10% of Imax	945.2 lumens per klm.
	To 50% of Imax	687.9 lumens per klm.
	To 90% of Imax	262.0 lumens per klm.
Upward LOR		0.0 %
Downward LOR		100.0 %
Luminaire Efficiency(Light Output Ratio)		100.0 %

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:

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:231.1V I:0.4540A P:97.69W PF:0.9311 Freq:60.08Hz Lamp Flux:15338.6x1 lm		
NAME: HBL200W-03-G4-4000K-50%	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



DATA OF LAMP		Eff:157.01lm/W	
MODEL		Imax(cd)	8828
NOMINAL POWER(W)	100	AVAILABILITY(%)	94.5
RATED VOLTAGE(V)	230	Avai. FLUX(lm)	14491
NOMINAL FLUX(lm)	15338.6	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	15339
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	0.24	1.02	1.92	2.66	3.20	3.62	3.95	4.21	4.34	4.36	4.24	4.00	3.68	3.27	2.73	2.00	1.09	0.26	50.8	0.00
70	0.24	1.32	2.85	4.33	5.71	7.17	8.69	10.0	10.8	10.9	10.1	8.84	7.31	5.82	4.38	2.88	1.34	0.23	103	0.00
60	0.28	1.81	4.41	7.37	10.7	14.9	19.8	24.4	27.1	27.2	24.5	20.0	15.1	10.8	7.35	4.39	1.77	0.25	222	80.5
50	0.33	2.43	6.71	12.4	19.7	29.7	41.7	52.5	58.8	58.6	52.2	41.3	29.4	19.4	12.2	6.59	2.31	0.27	447	386
40	0.39	3.24	10.2	21.0	36.1	57.0	80.8	100	111	110	99.0	79.2	55.7	35.2	20.5	9.85	2.96	0.30	833	810
30	0.45	4.24	15.4	35.9	65.9	104	141	167	180	179	164	137	100	63.4	34.6	14.4	3.72	0.34	1411	1399
20	0.52	5.28	21.9	57.9	109	161	200	225	236	235	222	195	154	103	54.2	19.7	4.45	0.37	2005	1996
10	0.56	6.04	27.6	78.8	145	197	231	253	263	262	251	228	191	137	71.9	23.9	4.92	0.40	2373	2365
0	0.59	6.27	29.2	83.7	151	201	235	256	267	267	255	233	198	144	74.6	24.3	4.98	0.41	2432	2424
-10	0.57	5.78	25.1	67.5	122	173	211	235	247	247	235	210	171	116	59.6	20.9	4.64	0.40	2152	2143
-20	0.53	4.95	18.8	43.9	76.9	117	154	180	193	193	179	152	112	71.0	38.5	15.6	4.00	0.38	1555	1544
-30	0.48	4.01	12.9	25.6	40.9	61.6	85.4	105	116	115	103	81.7	57.6	37.9	23.3	11.2	3.34	0.36	886	869
-40	0.44	3.16	8.67	15.1	22.6	32.0	42.7	52.0	57.4	56.6	50.3	40.2	29.8	21.2	14.3	7.82	2.72	0.34	457	408
-50	0.39	2.43	5.71	9.02	12.6	16.7	21.3	25.2	27.3	27.0	24.3	20.2	15.9	12.1	8.81	5.37	2.15	0.31	237	66.9
-60	0.34	1.76	3.60	5.21	6.71	8.15	9.50	10.5	11.0	10.9	10.2	9.16	7.91	6.63	5.25	3.52	1.61	0.27	112	0.00
-70	0.27	1.15	2.08	2.79	3.34	3.74	4.01	4.16	4.20	4.19	4.12	3.97	3.72	3.37	2.85	2.08	1.09	0.22	51.4	0.00
-80	0.13	0.38	0.56	0.68	0.76	0.80	0.80	0.79	0.78	0.79	0.82	0.84	0.84	0.83	0.75	0.58	0.33	0.07	11.5	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
F t																				
F a																				

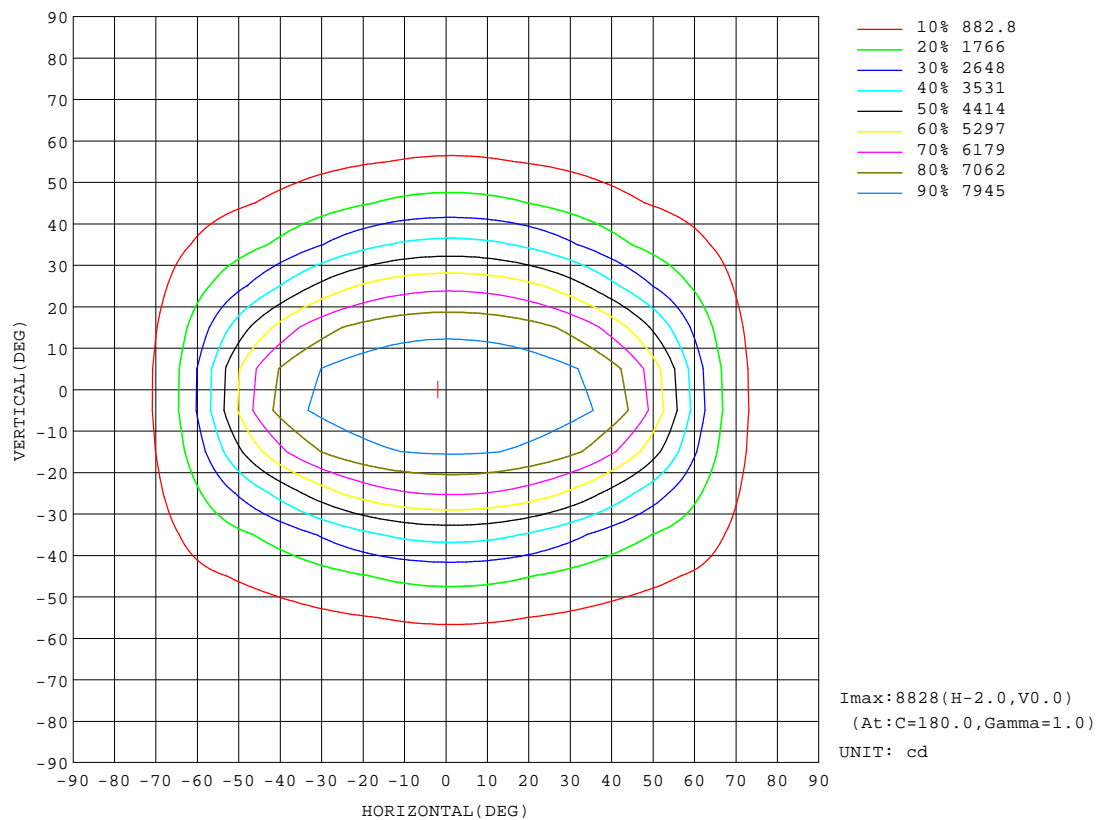
one-half-peak spread: U:32.9,D:32.4 , L:56.6,NEMA Beam Type: Type 7 x 6 (H x V)

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:231.1V I:0.4540A P:97.69W PF:0.9311 Freq:60.08Hz Lamp Flux:15338.6x1 lm		
NAME: HBL200W-03-G4-4000K-50%	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

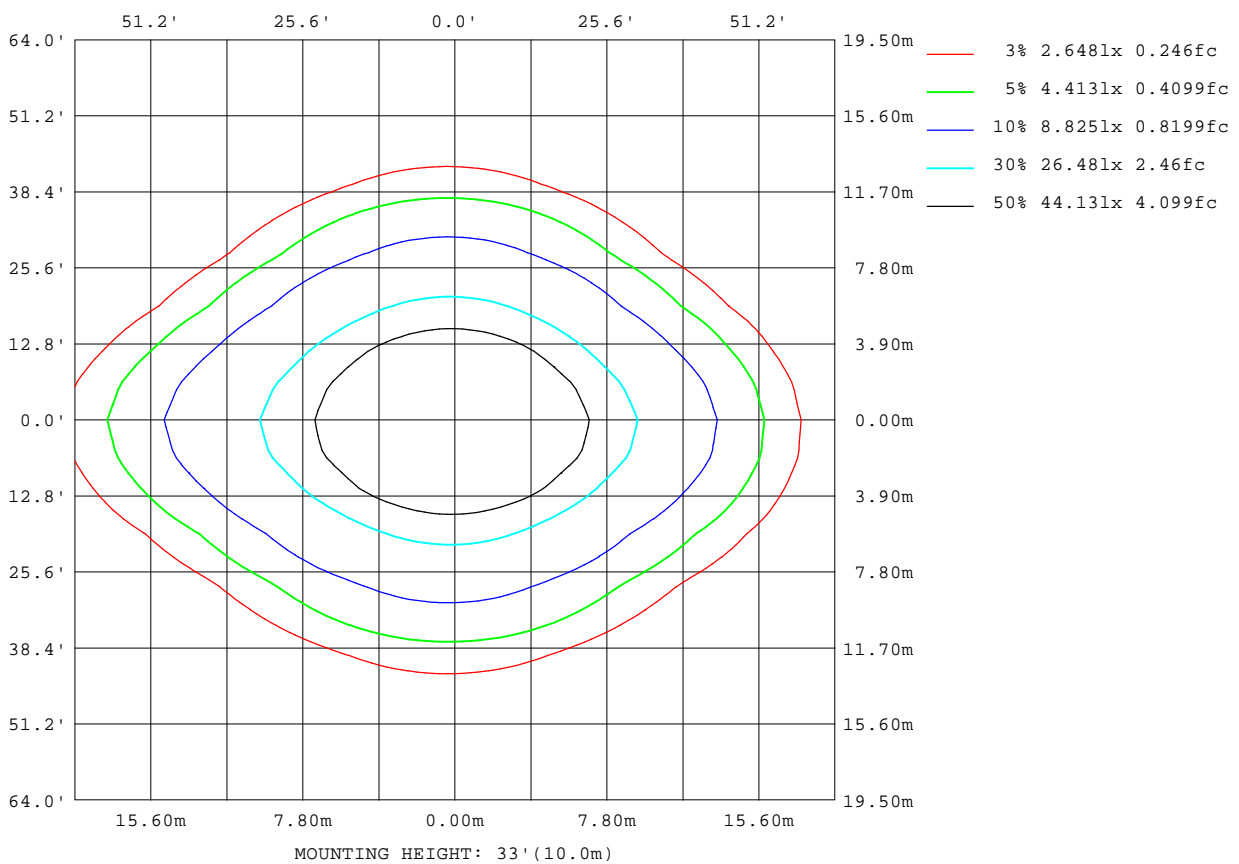


H(B) Range:-90 - 90DEG
H(B) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:23 October 2023

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:

ISOLUX DIAGRAM

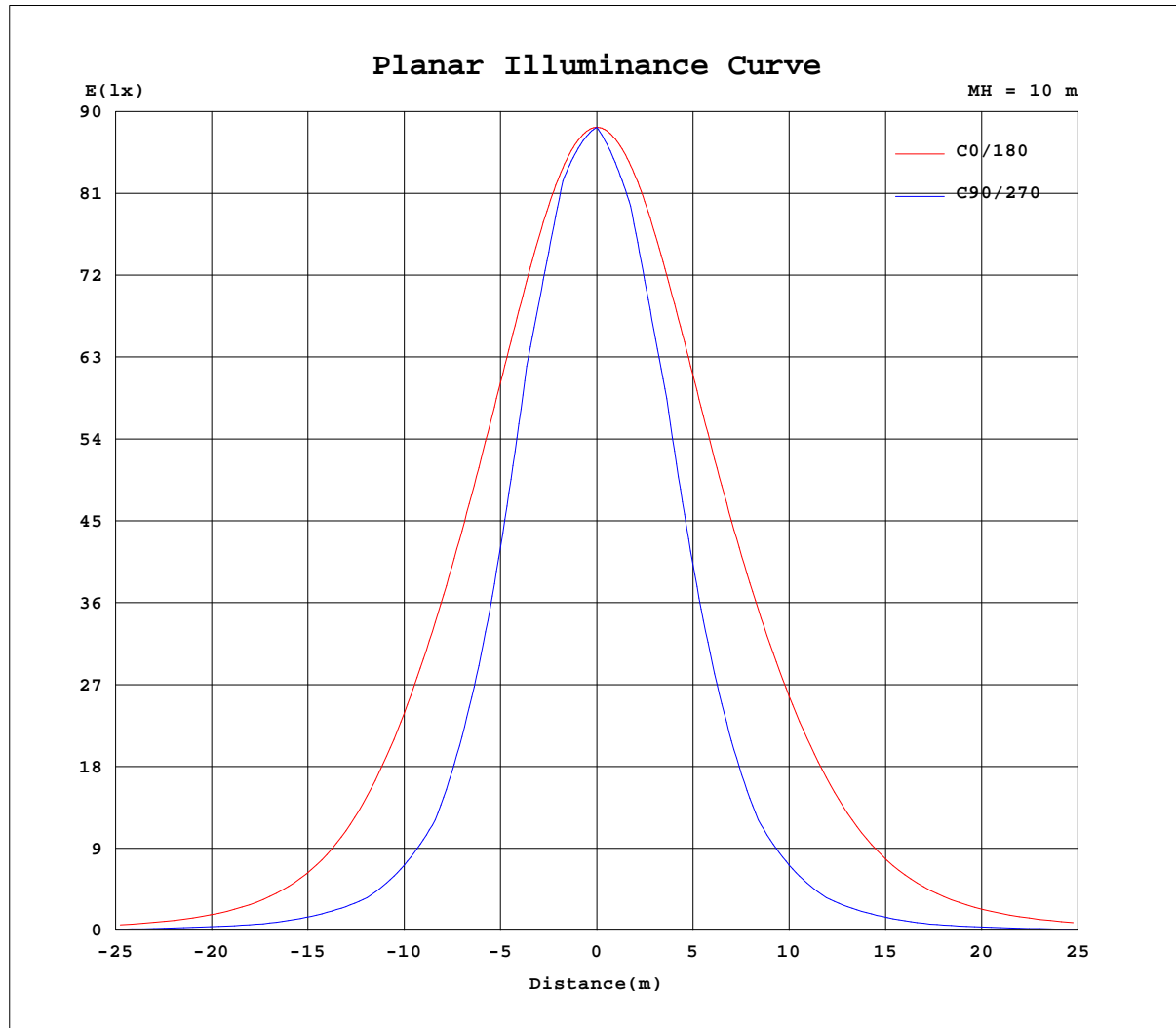
Test:U:231.1V I:0.4540A P:97.69W PF:0.9311 Freq:60.08Hz Lamp Flux:15338.6x1 lm		
NAME: HBL200W-03-G4-4000K-50%	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



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:

Planar Illuminance Curve

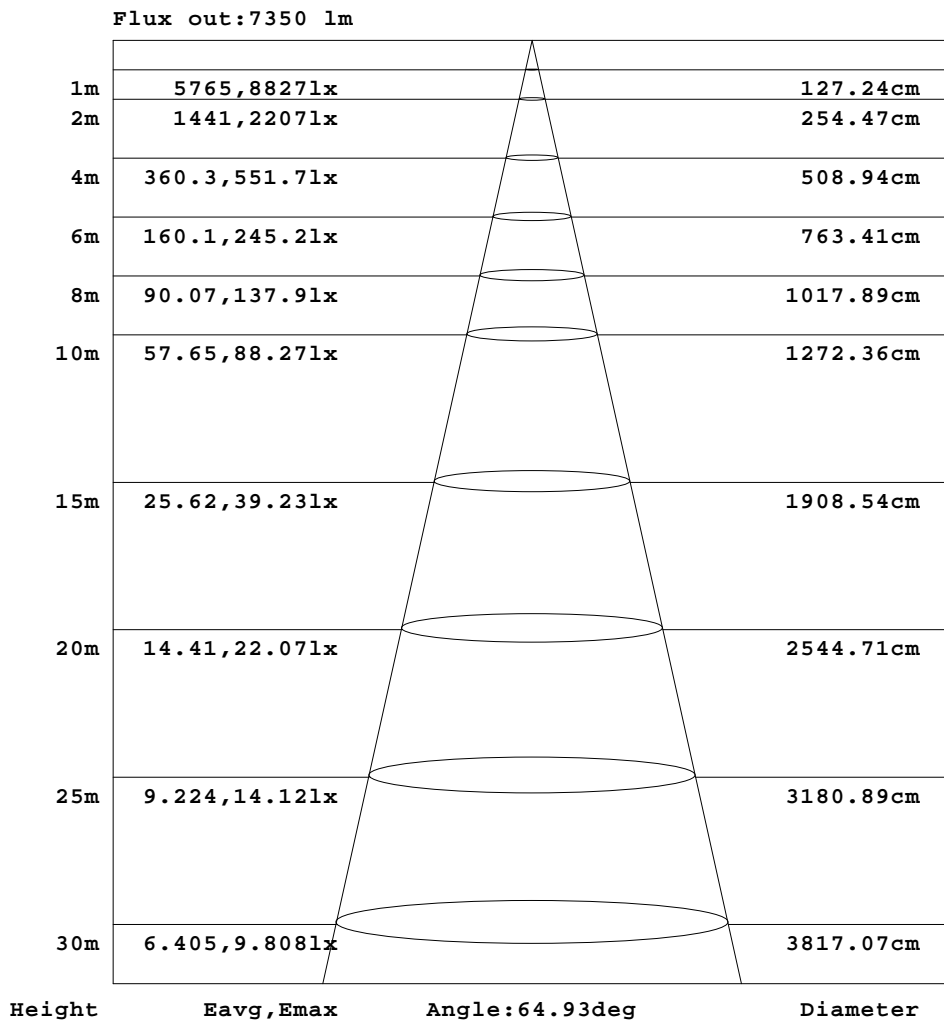


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:23 October 2023

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:231.1V I:0.4540A P:97.69W PF:0.9311 Freq:60.08Hz Lamp Flux:15338.6x1 lm		
NAME: HBL200W-03-G4-4000K-50%	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



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:231.1V I:0.4540A P:97.69W PF:0.9311 Freq:60.08Hz Lamp Flux:15338.6x1 lm		
NAME: HBL200W-03-G4-4000K-50%	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

Table--1

UNIT: cd

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	57.1	85.4	101	109	113	112	110	107	105	102	99.3	96.9	94.8	92.9	91.4	90.1	89.2	88.7	88.7
-75	43.4	65.4	107	134	152	162	165	166	165	165	163	162	162	162	163	163	163	163	163
-70	59.7	114	157	188	208	218	222	223	224	225	226	228	230	232	235	236	237	238	238
-65	44.2	69.7	140	196	241	273	292	304	312	321	331	343	356	370	384	396	406	413	415
-60	60.1	139	214	277	327	360	382	398	415	433	454	478	504	530	553	572	586	592	592
-55	44.3	70.3	167	256	342	417	473	513	547	585	628	678	733	792	849	898	938	966	978
-50	57.2	156	264	374	480	565	629	683	739	805	881	966	1056	1145	1225	1290	1337	1361	1360
-45	43.2	68.3	191	316	458	606	736	842	936	1037	1154	1287	1432	1581	1722	1843	1940	2007	2034
-40	53.4	173	316	484	673	859	1015	1152	1292	1454	1638	1839	2047	2246	2417	2556	2656	2702	2696
-35	41.6	65.7	211	378	594	852	1121	1372	1605	1841	2110	2413	2732	3043	3321	3548	3719	3831	3878
-30	49.7	185	367	610	922	1276	1633	1965	2291	2653	3062	3497	3918	4293	4598	4824	4972	5045	5040
-25	40.4	64.3	231	441	748	1160	1662	2207	2743	3275	3827	4380	4890	5323	5670	5929	6107	6214	6262
-20	48.5	201	418	746	1217	1837	2562	3310	4043	4777	5482	6089	6569	6922	7170	7330	7424	7469	7469
-15	39.4	64.3	249	497	891	1476	2282	3251	4253	5174	5969	6603	7081	7431	7677	7848	7959	8019	8047
-10	47.7	211	458	849	1466	2371	3531	4804	5954	6866	7497	7904	8170	8346	8469	8552	8597	8619	8624
-5	37.8	64.0	260	531	981	1688	2723	4028	5381	6511	7309	7818	8140	8358	8502	8606	8676	8708	8724
0	46.2	216	473	897	1577	2607	3973	5437	6669	7486	7973	8269	8470	8608	8706	8777	8811	8824	8825
5	35.3	61.2	257	525	970	1664	2674	3940	5239	6330	7110	7623	7956	8185	8338	8452	8530	8569	8583
10	41.9	205	448	831	1426	2286	3378	4540	5604	6471	7103	7529	7821	8015	8158	8259	8317	8339	8331
15	32.5	56.3	239	479	858	1407	2150	3032	3943	4809	5584	6219	6704	7057	7304	7482	7599	7669	7693
20	37.8	189	397	706	1138	1689	2322	2985	3679	4406	5106	5707	6169	6506	6745	6901	7000	7045	7035
25	30.2	51.5	213	409	691	1056	1490	1961	2450	2974	3541	4109	4626	5056	5390	5641	5815	5921	5963
30	34.6	165	330	549	815	1108	1409	1715	2051	2444	2889	3351	3787	4155	4450	4671	4809	4875	4867
35	29.5	48.3	184	332	519	732	954	1171	1394	1645	1941	2272	2618	2949	3236	3469	3642	3749	3793
40	34.7	145	268	409	561	709	847	982	1133	1312	1518	1748	1986	2209	2404	2555	2656	2704	2699
45	31.1	48.0	157	262	379	496	605	701	798	908	1039	1189	1356	1527	1688	1827	1935	2005	2034
50	37.5	125	213	300	386	458	517	574	636	710	797	896	1001	1105	1200	1277	1331	1359	1357
55	35.5	50.2	133	204	273	335	384	423	461	503	552	610	675	744	810	870	917	949	964
60	43.5	108	167	218	260	292	314	333	352	374	399	428	459	489	517	540	556	565	565
65	42.4	54.4	111	155	192	220	239	252	262	273	285	299	315	332	349	364	375	384	388
70	50.8	92.0	126	151	170	180	186	188	189	191	193	195	198	201	204	207	209	210	210
75	50.3	57.9	88.6	110	125	135	140	141	141	140	139	139	139	139	140	141	141	142	142
80	56.3	74.4	86.2	93.5	97.2	97.8	96.3	93.7	90.7	87.6	84.7	82.1	79.8	78.0	76.5	75.4	74.6	74.2	74.2
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(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:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:231.1V I:0.4540A P:97.69W PF:0.9311 Freq:60.08Hz Lamp Flux:15338.6x1 lm		
NAME: HBL200W-03-G4-4000K-50%	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

Table--2

UNIT: cd

H(°)	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
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	89.3	90.3	91.6	93.2	95.0	97.2	99.8	103	107	111	114	117	117	115	106	87.6	57.2	56.0
-75	164	164	164	164	164	164	164	165	167	169	171	173	171	165	152	129	91.6	55.8
-70	238	237	236	234	232	231	230	230	230	231	231	227	216	195	162	114	60.8	55.9
-65	415	411	403	393	380	367	354	342	333	326	320	312	296	269	229	177	108	58.1
-60	586	573	554	531	507	482	459	440	424	411	397	374	335	281	214	133	62.1	56.0
-55	974	955	922	878	825	768	712	661	617	581	547	513	464	394	310	222	120	58.4
-50	1334	1287	1221	1141	1053	965	883	811	751	697	645	576	484	375	264	149	60.8	54.9
-45	2023	1976	1897	1788	1655	1509	1364	1228	1108	1006	913	814	692	547	397	261	126	56.6
-40	2643	2544	2402	2225	2024	1821	1626	1450	1299	1166	1026	861	671	478	308	157	57.3	52.8
-35	3859	3780	3642	3445	3191	2898	2587	2277	1996	1751	1521	1275	1006	735	489	297	130	53.9
-30	4957	4805	4576	4267	3893	3479	3050	2649	2296	1969	1626	1261	905	589	353	166	54.1	50.7
-25	6246	6167	6024	5808	5512	5129	4663	4130	3576	3037	2503	1949	1411	947	583	331	133	51.6
-20	7419	7312	7139	6890	6532	6047	5430	4723	3992	3253	2493	1768	1159	703	393	171	51.8	49.3
-15	8042	7997	7906	7763	7558	7269	6868	6311	5597	4738	3766	2752	1844	1148	665	356	135	49.8
-10	8601	8545	8452	8321	8137	7872	7440	6781	5849	4681	3409	2253	1379	791	419	176	49.6	48.0
-5	8722	8694	8637	8544	8414	8237	7978	7561	6906	5923	4647	3284	2105	1256	703	367	134	47.6
0	8802	8758	8679	8564	8416	8207	7880	7341	6445	5153	3690	2378	1420	798	421	172	46.8	46.0
5	8574	8541	8482	8381	8237	8038	7752	7324	6661	5692	4460	3157	2033	1219	684	358	129	44.4
10	8296	8235	8131	7973	7754	7429	6970	6292	5376	4285	3131	2090	1294	749	399	166	42.4	42.3
15	7675	7621	7526	7372	7147	6830	6397	5824	5101	4264	3368	2468	1671	1053	615	331	121	40.1
20	6974	6864	6685	6423	6054	5558	4932	4221	3499	2814	2157	1545	1029	633	356	151	37.8	39.1
25	5942	5860	5714	5492	5188	4790	4301	3745	3171	2630	2134	1658	1212	824	514	291	111	36.1
30	4788	4634	4400	4088	3700	3253	2787	2349	1970	1647	1347	1050	764	505	303	138	34.5	35.6
35	3774	3692	3546	3338	3072	2755	2407	2063	1750	1483	1255	1041	825	609	409	248	102	34.1
40	2639	2528	2369	2170	1942	1703	1474	1270	1096	950	820	687	540	389	250	123	34.2	35.0
45	2022	1969	1877	1751	1599	1430	1258	1099	956	836	736	644	546	435	317	207	93.7	35.5
50	1326	1269	1189	1092	987	882	785	695	621	560	505	447	376	292	206	112	37.7	37.2
55	958	935	895	841	776	708	641	580	523	478	438	401	359	305	241	171	88.5	40.4
60	556	539	516	487	456	426	398	373	351	331	312	289	258	216	165	101	44.7	42.3
65	387	381	371	358	341	324	308	293	280	269	258	247	232	210	178	138	83.8	47.7
70	209	207	205	202	199	196	194	192	191	189	186	181	171	154	129	91.4	52.7	49.6
75	142	142	141	141	140	140	139	140	141	142	143	143	141	135	123	106	77.1	54.6
80	74.6	75.5	76.7	78.2	80.2	82.7	85.7	89.0	92.7	96.3	99.4	101	101	98.2	90.9	76.8	58.2	56.0
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: