

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

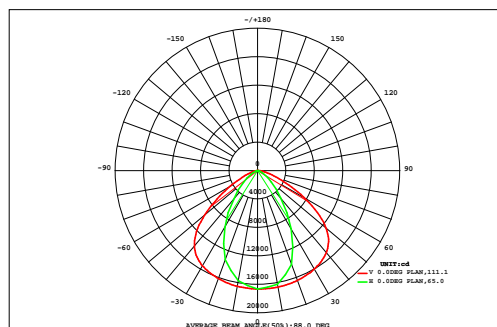
Maximum Intensity (Luminaire orientation as tested.)		574.9 cd per klm. 0.0 degrees vertical 0.0 degrees horizontal
Beam Spread	At 10% of Imax	112.2V x 144.3H
	At 50% of Imax	65.0V x 111.0H
	At 90% of Imax	29.3V x 74.6H
Beam Flux	Total	1000.3 lumens per klm.
	To 10% of Imax	945.1 lumens per klm.
	To 50% of Imax	688.2 lumens per klm.
	To 90% of Imax	262.4 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:230.6V I:0.8733A P:198.8W PF:0.9875 Freq:59.98Hz Lamp Flux:28950.2x1 lm		
NAME: HBL200W-03-G4-4000K-100%	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



DATA OF LAMP		Eff:145.61lm/W	
MODEL		Imax(cd)	16642
NOMINAL POWER(W)	200	AVAILABILITY(%)	94.4
RATED VOLTAGE(V)	230	Avai. FLUX(lm)	27342
NOMINAL FLUX(lm)	28950.2	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	28950
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	0.47	1.99	3.75	5.19	6.26	7.08	7.74	8.23	8.50	8.53	8.31	7.84	7.20	6.40	5.34	3.90	2.11	0.50	99.3	0.00
70	0.46	2.54	5.49	8.36	11.1	13.9	16.9	19.5	21.0	21.1	19.7	17.2	14.2	11.3	8.51	5.59	2.58	0.45	200	0.00
60	0.54	3.48	8.47	14.2	20.6	28.8	38.3	47.0	52.3	52.4	47.3	38.6	29.1	20.9	14.2	8.49	3.40	0.48	428	159
50	0.63	4.66	12.9	23.7	37.7	56.8	79.6	100	112	112	99.5	78.9	56.2	37.2	23.4	12.6	4.41	0.51	853	739
40	0.74	6.18	19.4	40.0	68.7	109	154	191	211	210	188	151	106	66.8	39.0	18.7	5.65	0.57	1584	1543
30	0.85	8.04	29.1	68.0	125	198	268	317	341	339	312	259	190	120	65.5	27.2	7.06	0.64	2676	2654
20	0.98	9.99	41.4	109	207	305	379	425	447	444	420	369	291	195	103	37.2	8.41	0.71	3793	3776
10	1.07	11.4	52.1	149	274	372	436	477	496	495	474	430	361	259	136	45.0	9.29	0.75	4478	4463
0	1.11	11.8	55.0	158	285	380	443	483	502	502	481	439	374	272	141	45.7	9.35	0.77	4583	4568
-10	1.06	10.9	47.4	127	230	326	397	443	464	465	442	396	322	219	112	39.2	8.73	0.76	4050	4033
-20	0.99	9.31	35.3	82.4	145	220	290	339	364	363	337	285	211	134	72.4	29.4	7.52	0.72	2924	2903
-30	0.90	7.50	24.1	47.9	76.8	116	160	197	218	216	193	153	108	70.9	43.5	20.9	6.28	0.68	1661	1628
-40	0.81	5.93	16.2	28.2	42.1	59.8	79.7	97.1	107	106	93.8	74.9	55.5	39.6	26.7	14.6	5.09	0.63	854	757
-50	0.72	4.52	10.6	16.8	23.4	31.2	39.7	47.0	51.0	50.3	45.3	37.6	29.6	22.6	16.5	10.1	4.03	0.58	442	120
-60	0.62	3.25	6.67	9.70	12.5	15.2	17.7	19.7	20.6	20.4	19.1	17.1	14.8	12.4	9.80	6.58	3.01	0.51	210	0.00
-70	0.49	2.11	3.82	5.16	6.14	6.87	7.37	7.63	7.71	7.69	7.57	7.31	6.87	6.23	5.28	3.85	2.02	0.42	94.5	0.00
-80	0.23	0.69	1.03	1.25	1.39	1.46	1.47	1.45	1.43	1.46	1.50	1.54	1.55	1.52	1.38	1.07	0.61	0.12	21.2	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
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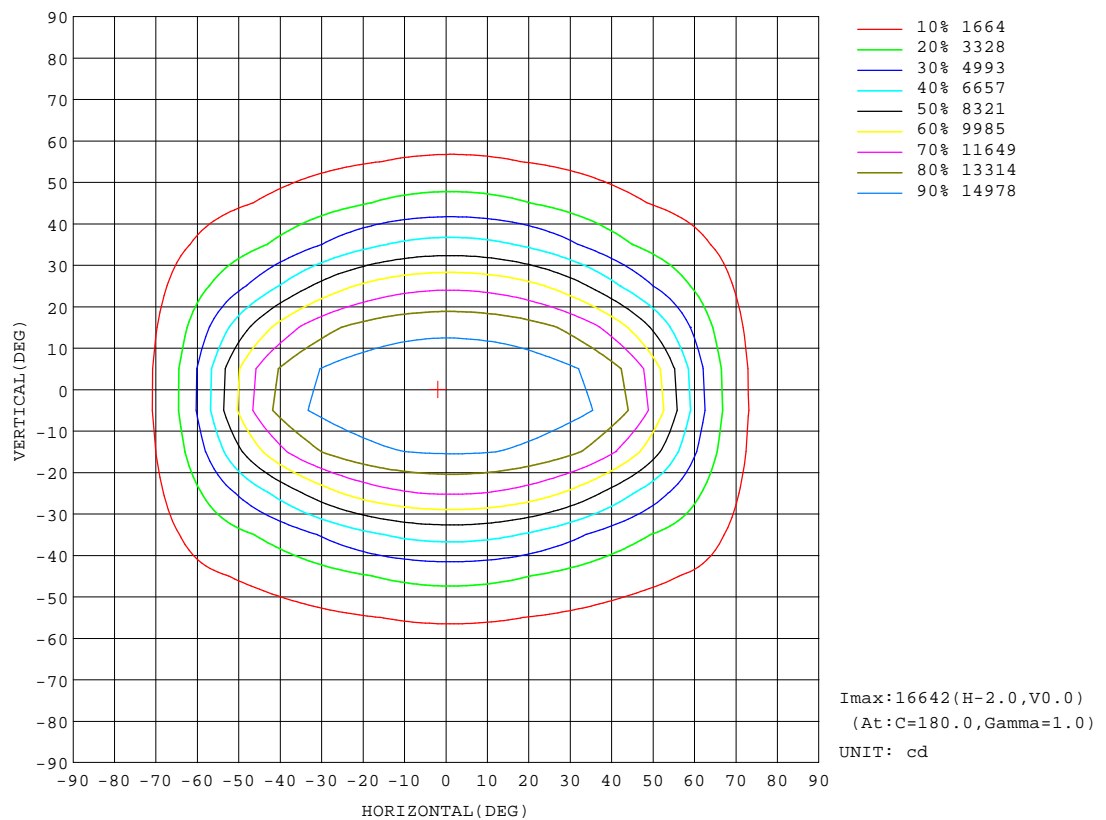
one-half-peak spread: U:32.8,D:32.5 , L:56.7,NEMA Beam Type: Type 7 x 6 (H x V)

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:230.6V I:0.8733A P:198.8W PF:0.9875 Freq:59.98Hz Lamp Flux:28950.2x1 lm		
NAME: HBL200W-03-G4-4000K-100%	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

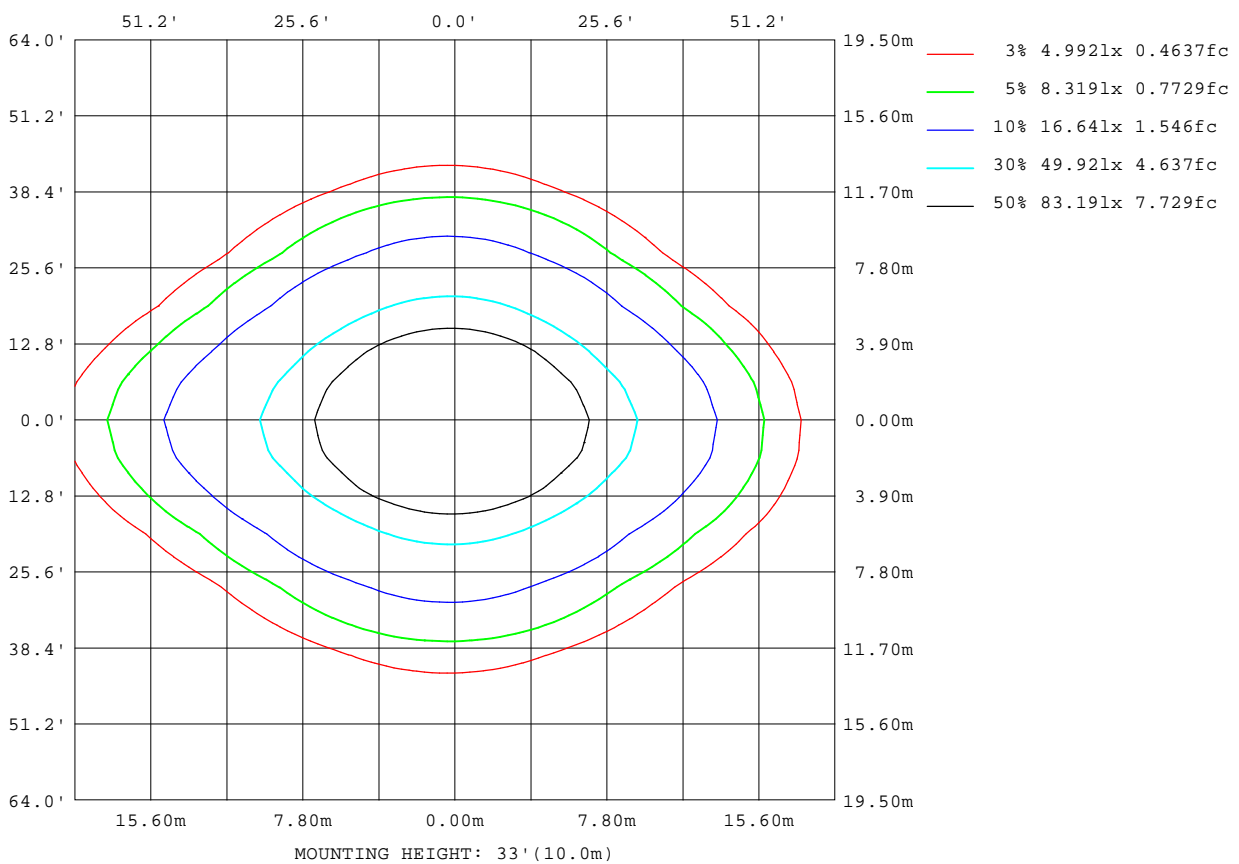


H(θ) Range:-90 - 90DEG
H(θ) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:23 October 2023

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:

ISOLUX DIAGRAM

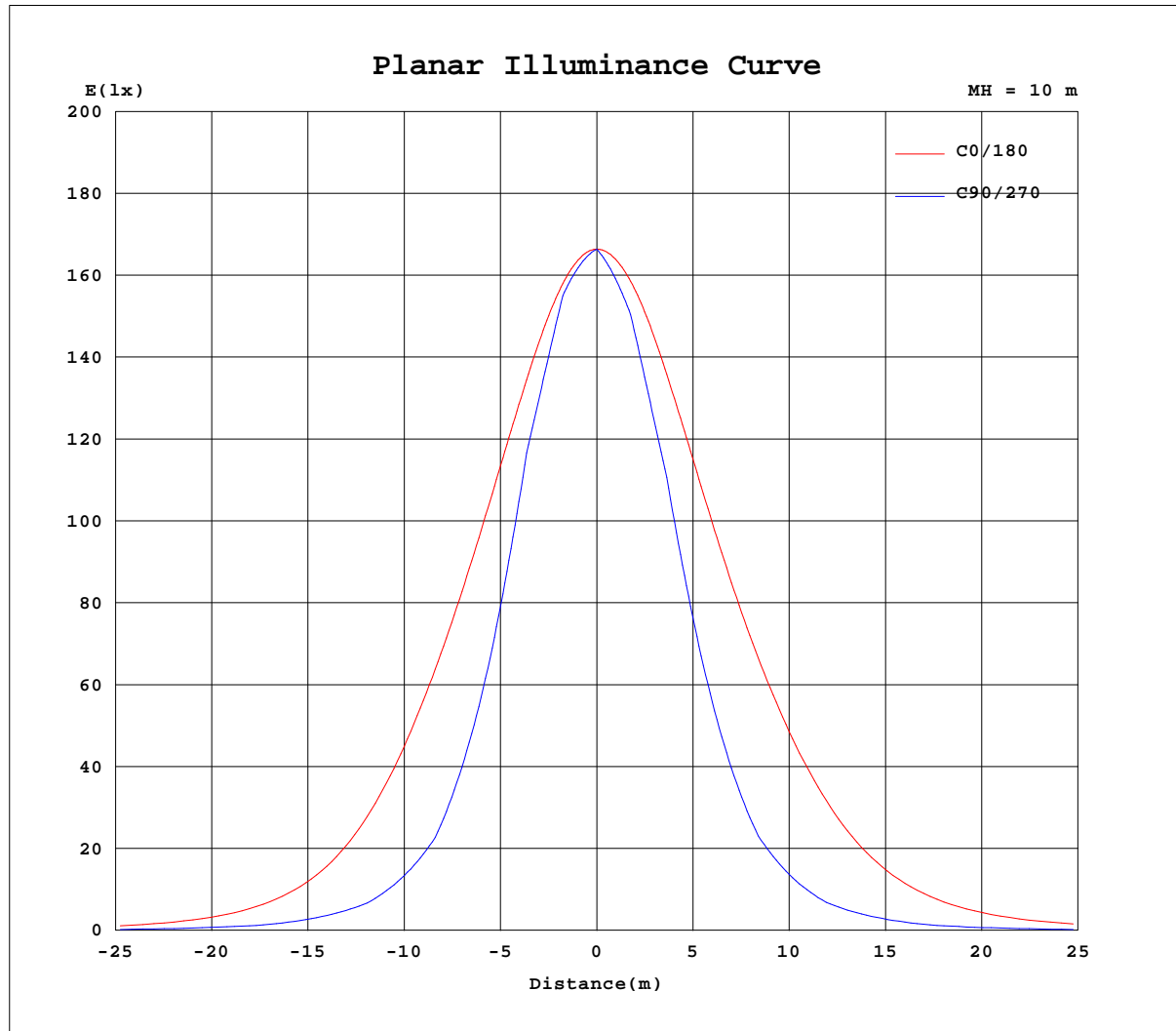
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V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:11.900m [K=1.0000]
Remarks:

Planar Illuminance Curve



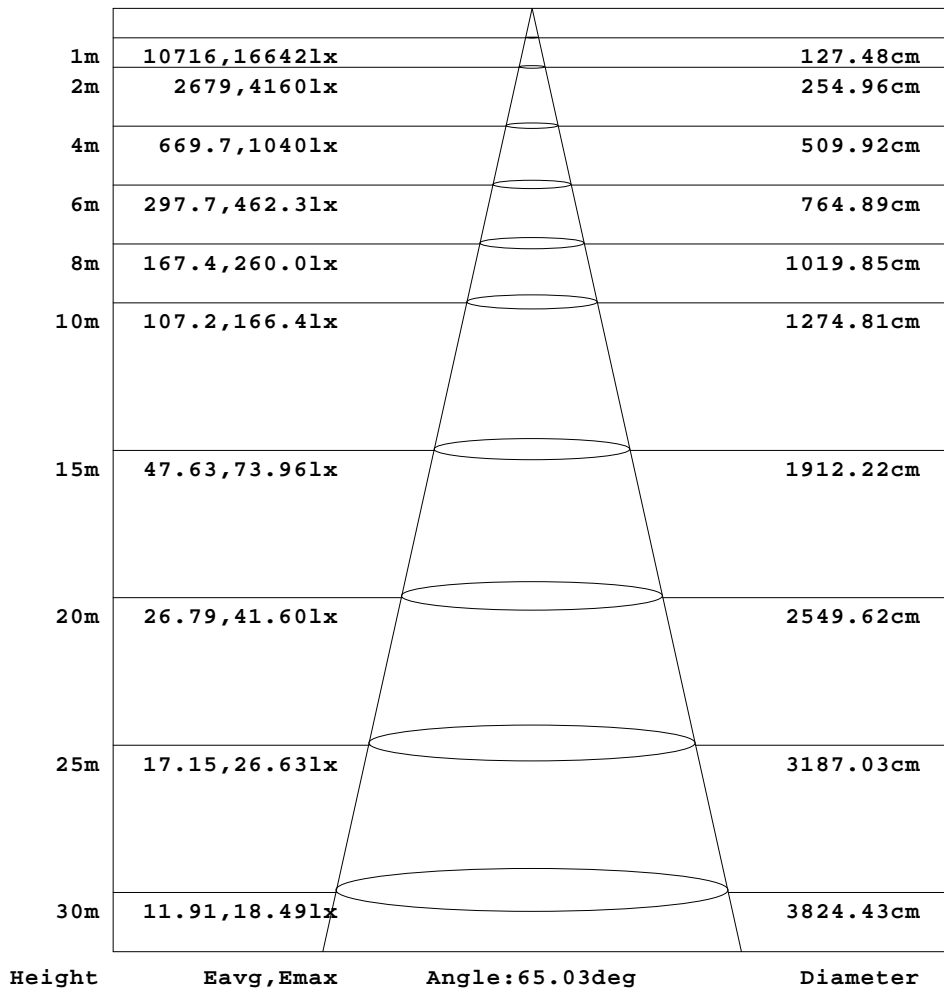
H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:23 October 2023

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:230.6V I:0.8733A P:198.8W PF:0.9875 Freq:59.98Hz Lamp Flux:28950.2x1 lm		
NAME: HBL200W-03-G4-4000K-100%	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

Flux out:14198 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:230.6V I:0.8733A P:198.8W PF:0.9875 Freq:59.98Hz Lamp Flux:28950.2x1 lm																	
NAME: HBL200W-03-G4-4000K-100%									TYPE:			WEIGHT:					
SPEC.:									DIM.:			SERIAL No.:					
MFR.: EVERFINE									SUR.:			Shielding Angle:					

Table--1

UNIT: x10cd

H(°) \ 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	10.4	15.6	18.5	20.0	20.6	20.6	20.3	19.7	19.3	18.8	18.2	17.8	17.4	17.1	16.8	16.6	16.4	16.3	16.4
-75	7.79	11.9	19.6	24.5	27.9	29.7	30.5	30.7	30.5	30.3	30.1	30.0	30.0	30.0	30.1	30.1	30.1	30.2	30.2
-70	10.7	20.8	28.9	34.7	38.4	40.3	41.1	41.3	41.5	41.6	41.8	42.1	42.5	43.0	43.4	43.7	43.9	44.0	44.1
-65	7.79	12.6	25.6	36.1	44.4	50.5	54.2	56.4	58.2	59.9	61.7	63.8	66.3	69.0	71.6	73.9	75.7	76.9	77.4
-60	10.7	25.4	39.4	51.2	60.6	66.9	71.0	74.1	77.6	81.1	85.0	89.5	94.4	99.2	104	107	109	111	111
-55	7.70	12.6	30.8	47.7	63.6	77.5	88.0	95.5	102	109	117	127	137	148	158	168	175	180	183
-50	10.2	28.7	49.4	69.8	89.4	105	117	127	138	150	164	180	197	214	229	241	250	254	254
-45	7.47	12.3	35.2	59.0	85.9	113	137	157	175	194	215	240	268	295	322	345	363	375	380
-40	9.50	31.9	58.8	91.0	127	161	190	215	241	272	306	344	383	420	452	478	497	506	504
-35	7.22	11.9	39.3	70.6	111	160	210	257	301	345	396	453	513	571	623	665	698	719	727
-30	8.95	34.5	68.7	114	173	239	306	369	431	499	575	657	736	806	863	906	934	947	947
-25	7.14	11.8	43.3	83.0	140	218	312	414	516	616	720	824	920	1001	1066	1115	1148	1168	1177
-20	8.88	37.6	79.0	140	229	345	482	622	760	900	1033	1146	1236	1303	1349	1379	1397	1405	1405
-15	7.14	11.9	46.9	93.7	167	278	430	613	801	974	1125	1244	1333	1399	1445	1477	1498	1509	1514
-10	8.84	39.8	86.2	160	276	448	668	906	1122	1294	1413	1488	1538	1571	1594	1610	1618	1622	1623
-5	6.96	12.0	49.1	100	185	318	514	761	1016	1228	1379	1474	1534	1575	1602	1621	1635	1641	1643
0	8.63	40.7	90.0	169	297	492	750	1027	1259	1413	1504	1560	1598	1624	1642	1655	1661	1664	1664
5	6.55	11.5	48.6	99.5	183	314	505	744	989	1195	1342	1438	1502	1545	1574	1595	1610	1617	1620
10	7.85	38.9	84.6	157	269	433	638	857	1058	1222	1341	1422	1477	1514	1541	1560	1571	1576	1574
15	6.07	10.6	45.3	91.0	162	266	407	573	745	909	1056	1176	1268	1335	1382	1415	1437	1451	1455
20	7.12	35.7	75.7	134	215	320	439	565	696	836	968	1081	1169	1233	1278	1308	1326	1335	1332
25	5.69	9.72	40.4	77.9	131	200	282	371	464	564	672	780	877	959	1022	1070	1103	1123	1131
30	6.55	31.3	62.9	104	154	210	267	325	390	465	549	637	720	790	845	887	914	926	925
35	5.59	9.15	35.0	63.1	98.9	139	181	223	265	313	369	432	498	561	615	660	693	713	721
40	6.60	27.6	51.1	78.3	108	136	162	187	216	250	290	333	379	421	458	487	506	515	514
45	5.91	9.10	29.9	50.2	72.7	95.1	115	134	152	173	198	227	259	292	322	349	369	382	388
50	7.13	23.7	40.9	57.7	73.8	87.5	99.0	110	122	136	153	171	192	211	230	244	255	260	260
55	6.80	9.58	25.4	39.3	52.4	64.1	73.6	81.3	88.5	96.6	106	118	130	143	156	167	176	182	185
60	8.38	20.8	32.2	42.0	50.2	56.3	60.6	64.3	68.0	72.3	77.8	83.3	89.3	95.2	101	105	108	110	110
65	8.17	10.4	21.3	29.8	37.0	42.4	46.2	48.7	50.8	52.8	55.2	58.2	61.3	64.6	67.8	70.7	73.0	74.6	75.4
70	9.77	17.7	24.2	29.3	32.8	34.9	35.9	36.5	36.8	37.1	37.5	38.0	38.6	39.2	39.8	40.3	40.6	40.8	40.8
75	9.71	11.2	17.1	21.2	24.3	26.2	27.2	27.5	27.4	27.3	27.2	27.1	27.1	27.2	27.3	27.5	27.6	27.7	27.7
80	10.9	14.3	16.7	18.2	19.0	19.2	18.9	18.4	17.9	17.3	16.7	16.2	15.7	15.4	15.1	14.8	14.7	14.6	14.6
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

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 Humidity:65.0%
 Test Distance:11.900m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

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NAME: HBL200W-03-G4-4000K-100%									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	16.5	16.7	16.9	17.2	17.5	17.9	18.4	19.1	19.7	20.4	21.2	21.7	21.7	21.4	19.8	16.3	10.6	10.3
-75	30.2	30.3	30.3	30.3	30.3	30.3	30.4	30.5	30.9	31.3	31.7	32.1	31.8	30.6	28.2	24.0	17.0	10.3
-70	44.0	43.9	43.7	43.4	43.0	42.7	42.5	42.6	42.7	42.9	42.9	42.2	40.1	36.2	30.2	21.2	11.3	10.4
-65	77.3	76.6	75.1	73.2	70.9	68.4	65.9	63.8	62.1	60.8	59.7	58.2	55.4	50.3	42.8	33.1	20.1	10.8
-60	109	107	104	99.3	94.7	90.1	85.9	82.3	79.4	77.0	74.3	70.0	62.9	52.7	40.3	24.8	11.5	10.4
-55	182	178	172	164	154	143	133	123	115	108	103	96.2	87.1	74.1	58.1	41.4	22.3	10.9
-50	249	240	228	213	196	180	165	151	140	131	121	108	91.0	70.1	49.4	27.8	11.3	10.2
-45	378	369	355	334	309	282	255	229	207	188	171	152	130	103	74.2	48.9	23.6	10.5
-40	494	476	449	416	378	340	304	271	243	218	192	161	125	89.4	58.1	29.4	10.7	9.79
-35	724	709	683	646	598	543	485	427	374	328	285	239	188	138	91.9	55.8	24.4	10.1
-30	931	903	860	801	730	652	572	497	430	369	305	236	170	111	66.3	31.2	10.1	9.52
-25	1174	1159	1133	1092	1036	964	877	776	672	571	470	367	265	178	110	62.0	24.9	9.61
-20	1396	1375	1343	1296	1229	1138	1022	889	752	613	470	332	218	132	73.7	32.0	9.59	9.14
-15	1513	1505	1488	1461	1423	1368	1293	1189	1055	893	710	518	347	216	125	67.0	25.3	9.30
-10	1619	1609	1591	1567	1533	1482	1402	1279	1103	883	641	424	259	148	79.4	33.1	9.34	8.99
-5	1643	1638	1627	1610	1585	1552	1503	1425	1302	1117	876	618	397	236	132	68.9	25.1	8.86
0	1659	1651	1636	1614	1586	1547	1485	1383	1214	971	695	449	267	150	78.8	32.1	8.60	8.56
5	1618	1612	1601	1582	1554	1517	1463	1382	1257	1074	841	595	384	230	129	67.4	24.3	8.26
10	1567	1556	1536	1506	1464	1404	1317	1189	1016	809	590	394	244	141	75.9	31.3	8.04	8.06
15	1452	1441	1423	1394	1351	1291	1210	1101	964	806	636	466	315	199	117	62.7	22.9	7.59
20	1321	1300	1266	1216	1146	1052	933	799	663	533	409	292	194	120	67.2	28.6	7.17	7.39
25	1127	1111	1084	1042	983	907	815	709	601	498	404	314	229	156	97.7	55.3	21.0	6.87
30	910	881	837	775	702	617	529	446	374	312	256	199	145	96.6	57.6	26.2	6.58	6.84
35	718	702	674	635	583	523	457	392	333	282	238	198	157	116	78.2	47.2	19.3	6.52
40	503	482	451	413	370	324	281	242	209	181	156	131	103	73.9	48.0	23.2	6.53	6.68
45	386	376	358	334	305	273	240	210	183	160	141	123	105	83.0	60.5	39.6	17.9	6.80
50	254	243	228	209	189	169	151	134	120	108	97.5	86.3	72.0	55.9	39.4	21.4	7.26	7.18
55	184	180	172	162	149	136	123	112	101	92.5	84.8	77.5	69.4	58.8	46.3	32.8	16.9	7.76
60	108	105	100	94.7	88.7	82.7	77.3	72.5	68.3	64.4	60.5	56.1	50.1	41.9	31.7	19.4	8.58	8.14
65	75.2	74.0	72.2	69.5	66.4	63.1	59.8	57.0	54.5	52.3	50.2	47.9	44.9	40.6	34.5	26.6	16.1	9.19
70	40.7	40.4	40.0	39.4	38.8	38.2	37.8	37.4	37.2	36.8	36.2	35.1	33.2	29.8	24.9	17.6	10.2	9.59
75	27.7	27.7	27.6	27.5	27.4	27.3	27.3	27.3	27.5	27.7	27.9	27.8	27.4	26.2	23.9	20.4	14.8	10.6
80	14.7	14.9	15.1	15.4	15.8	16.3	16.9	17.5	18.2	18.9	19.5	19.9	19.8	19.1	17.6	14.8	11.2	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
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: