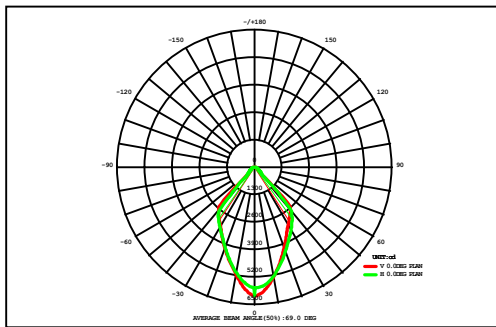


## LUMINAIRE PHOTOMETRIC TEST REPORT

NAME:50W SMD LED HIGHBAY	TYPE:HIGHBAY	WEIGHT:
MODEL NO.:BR44-05022;BT44-05032	SPECIFICATION:	SERIAL No.:
DIMENSION:	SURFACE:	PROTECTION ANGLE:



DATA OF LAMP		PHOTOMETRIC DATA	
MODEL	BT44-05032	Imax (cd)	6086
NOMINAL POWER(W)	54	AVAILABILITY(%)	100.9
RATED VOLTAGE(V)	220	Avai. FLUX(lm)	6052
NOMINAL FLUX(lm)	6000	LOR(%)	112.9
LAMPS INSIDE	1	TOTAL FLUX(lm)	6775
TEST VOLTAGE(V)	219.9	θ @50%(H,V)	67,71DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a							
	0.28	0.53	0.87	1.27	1.71	2.15	2.55	2.87	3.08	3.10	2.92	2.62	2.23	1.80	1.35	0.94	0.59	0.32	31.2	0.00							
64	0.39	0.77	1.27	1.89	2.58	3.30	3.98	4.53	4.89	4.92	4.60	4.09	3.43	2.71	2.01	1.37	0.84	0.44	48.0	0.00							
56	0.51	1.01	1.70	2.58	3.60	4.69	5.75	6.65	7.25	7.28	6.74	5.89	4.85	3.78	2.74	1.84	1.10	0.57	68.5	0.00							
48	0.62	1.25	2.15	3.32	4.74	6.38	10.0	18.6	24.6	24.7	18.8	10.3	6.57	4.95	3.53	2.32	1.37	0.69	145	79.4							
40	0.72	1.48	2.58	4.08	6.22	20.5	43.3	54.2	58.4	58.4	54.1	43.5	21.2	6.51	4.32	2.79	1.63	0.81	385	348							
32	0.81	1.68	2.98	4.85	19.1	46.6	56.9	64.5	69.3	69.2	64.2	56.6	46.5	20.0	5.11	3.22	1.85	0.91	534	507							
24	0.88	1.84	3.30	7.13	38.3	52.8	64.1	74.7	81.9	81.8	74.3	63.5	52.4	38.6	7.77	3.57	2.03	0.99	650	627							
	0.93	1.94	3.52	14.6	44.2	56.5	70.8	85.5	96.2	96.5	85.8	70.2	55.8	43.9	15.6	3.81	2.15	1.04	749	729							
	0.95	1.98	3.61	19.5	45.5	58.5	75.0	92.9	108	109	94.2	74.6	57.5	45.1	20.5	3.91	2.21	1.07	814	796							
	0.94	1.97	3.59	19.3	45.4	58.2	74.5	92.1	107	108	93.5	74.2	57.2	44.9	20.3	3.90	2.20	1.07	808	790							
	0.92	1.92	3.47	14.0	43.6	55.9	69.6	83.6	93.1	93.5	83.9	69.0	55.2	43.3	15.0	3.76	2.13	1.03	733	713							
-24	0.87	1.80	3.23	6.70	36.6	52.0	62.5	72.3	78.5	78.5	72.0	61.9	51.6	36.9	7.34	3.49	2.00	0.97	629	607							
-32	0.79	1.63	2.88	4.67	17.0	44.5	55.6	62.3	66.3	66.2	62.0	55.3	44.4	17.9	4.93	3.12	1.81	0.89	512	486							
-40	0.70	1.43	2.48	3.89	5.81	17.2	38.7	50.9	55.9	55.8	50.8	38.9	18.0	6.10	4.13	2.69	1.57	0.79	356	319							
-48	0.60	1.20	2.04	3.13	4.44	5.93	8.28	14.1	17.9	18.0	14.4	8.59	6.13	4.66	3.34	2.21	1.32	0.67	117	49.2							
-56	0.48	0.96	1.60	2.41	3.33	4.31	5.25	6.02	6.49	6.52	6.10	5.38	4.48	3.51	2.57	1.74	1.05	0.54	62.8	0.00							
-64	0.37	0.72	1.19	1.74	2.36	2.99	3.57	4.03	4.30	4.33	4.10	3.68	3.12	2.49	1.86	1.28	0.79	0.42	43.3	0.00							
-72	0.27	0.49	0.79	1.15	1.54	1.92	2.25	2.51	2.66	2.67	2.56	2.32	2.00	1.63	1.24	0.87	0.55	0.31	27.7	0.00							
	-72	-64	-56	-48	-40	-32	-24	-16	HORIZONTAL (DEG)											16	24	32	40	48	56	64	72
Φ t	12.0	24.6	43.3	116	326	494	653	792	886	888	795	650	493	329	124	46.8	27.2	13.5	6713	---							
Φ a	0.00	0.00	0.00	61.0	284	456	616	756	849	851	759	613	454	286	65.9	0.00	0.00	0.00	---	6052							

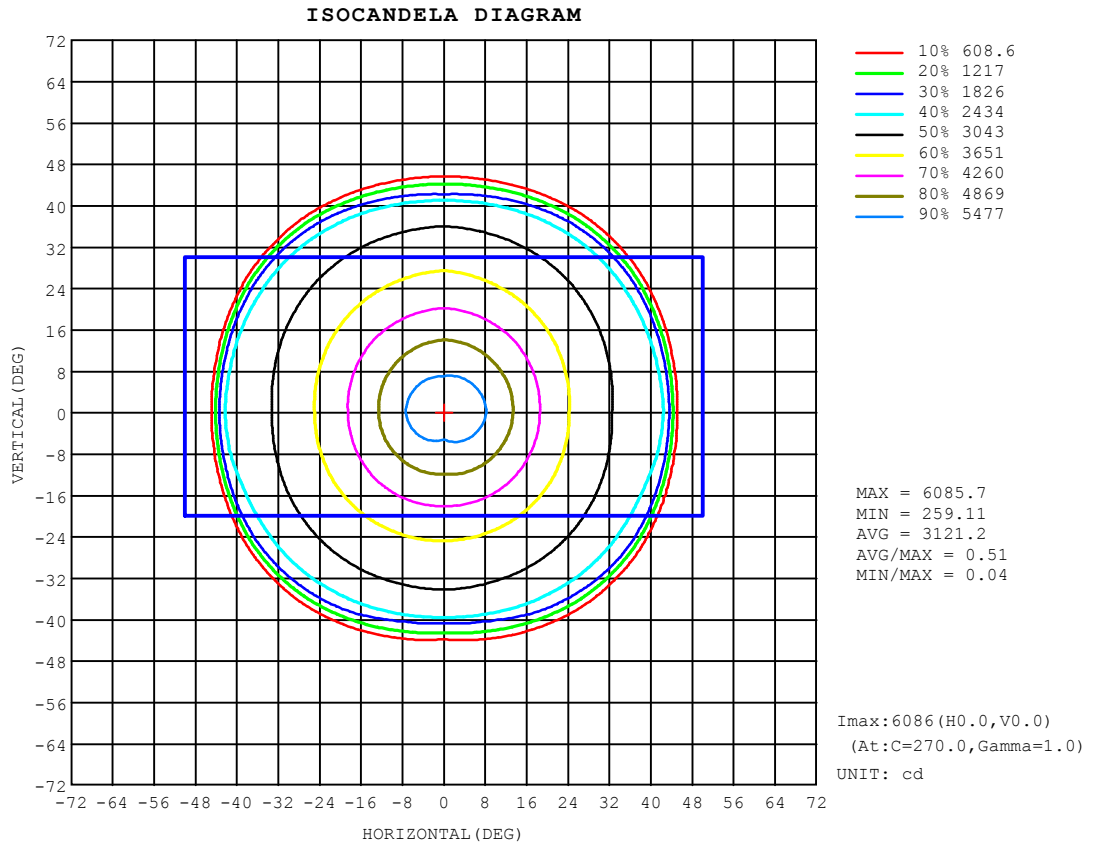
one-half-peak spread: U:34.8,D:36.4 , L:33.8,R:33.1

H(β) Range:-90 - 90DEG  
H(β) Interval: 0.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2015-11-19

V(B) Range:-90 - 90DEG  
V(B) Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V1.0.255  
Humidity:65.0%  
Test Distance:6.600m [K=1.0000]  
Remarks:

**ISOCANDELA DIAGRAM**

NAME:50W SMD LED HIGHBAY	TYPE:HIGHBAY	WEIGHT:
MODEL NO.:BR44-05022;BT44-05032	SPECIFICATION:	SERIAL No.:
DIMENSION:	SURFACE:	PROTECTION ANGLE:

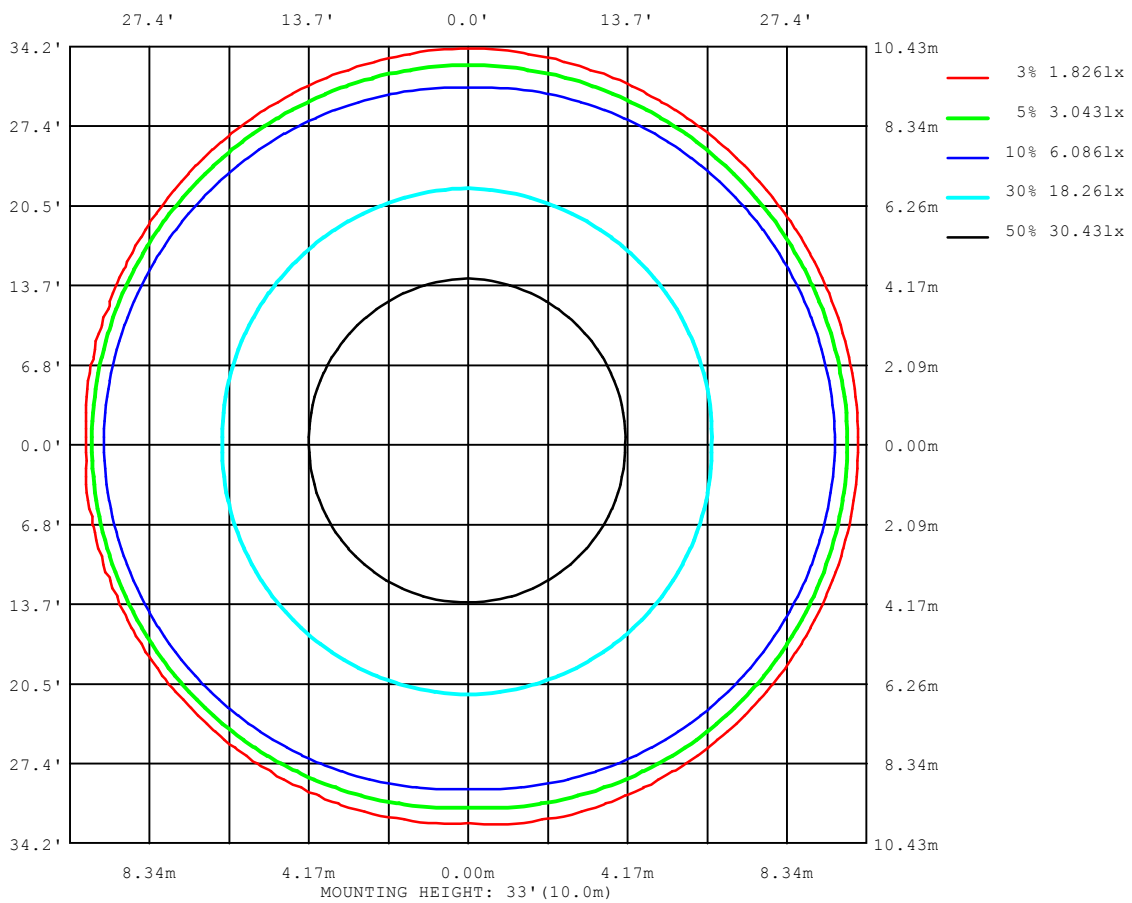


H(β) Range:-90 - 90DEG  
H(β) Interval: 0.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2015-11-19

V(B) Range:-90 - 90DEG  
V(B) Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V1.0.255  
Humidity:65.0%  
Test Distance:6.600m [K=1.0000]  
Remarks:

## ISOLUX DIAGRAM

NAME: 50W SMD LED HIGHBAY	TYPE: HIGHBAY	WEIGHT:
MODEL NO.: BR44-05022; BT44-05032	SPECIFICATION:	SERIAL No.:
DIMENSION:	SURFACE:	PROTECTION ANGLE:

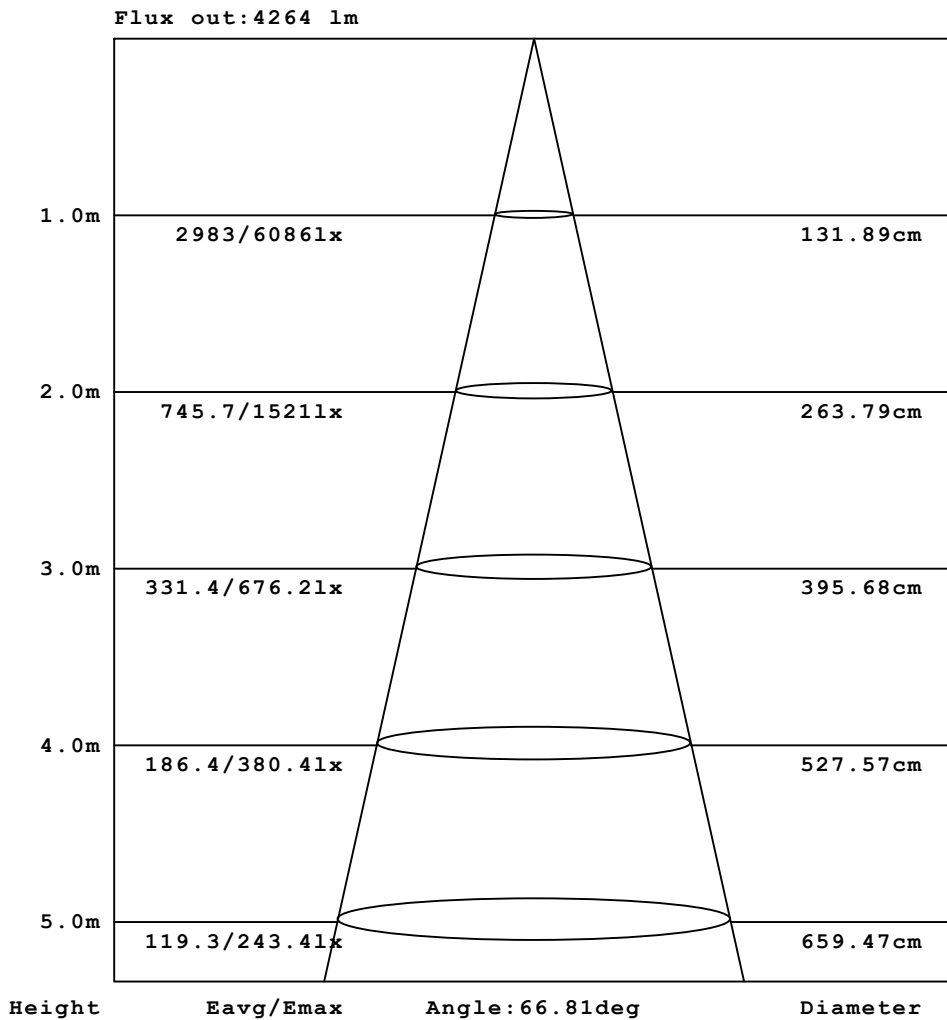


H( $\beta$ ) Range: -90 - 90DEG  
H( $\beta$ ) Interval: 0.5DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2015-11-19

V(B) Range: -90 - 90DEG  
V(B) Interval: 0.5DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V1.0.255  
Humidity: 65.0%  
Test Distance: 6.600m [K=1.0000]  
Remarks:

**AAI Figure**

NAME:50W SMD LED HIGHBAY	TYPE:HIGHBAY	WEIGHT:
MODEL NO.:BR44-05022;BT44-05032	SPECIFICATION:	SERIAL No.:
DIMENSION:	SURFACE:	PROTECTION ANGLE:



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

H(β) Range:-90 - 90DEG  
H(β) Interval: 0.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2015-11-19

V(B) Range:-90 - 90DEG  
V(B) Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V1.0.255  
Humidity:65.0%  
Test Distance:6.600m [K=1.0000]  
Remarks:

**LUMINOUS DISTRIBUTION INTENSITY DATA**

NAME:50W SMD LED HIGHBAY	TYPE:HIGHBAY	WEIGHT:
MODEL NO.:BR44-05022;BT44-05032	SPECIFICATION:	SERIAL No.:
DIMENSION:	SURFACE:	PROTECTION ANGLE:

Table--1

UNIT: cd

H( DEG) V( DEG)	-90	-85	-80	-75	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
-90	11.5	11.6	11.6	11.7	11.7	11.8	11.9	11.9	12.0	12.1	12.1	12.2	12.2	12.3	12.4	12.4	12.5	12.5	12.6
-85	11.5	12.0	12.5	13.4	14.5	15.6	16.7	17.8	18.8	19.7	20.5	21.2	21.8	22.4	22.8	23.1	23.4	23.5	23.5
-80	11.5	12.5	14.7	17.2	19.5	21.6	23.7	26.2	28.8	31.4	34.0	36.5	38.8	40.8	42.7	44.1	45.2	45.9	46.2
-75	11.5	13.5	17.3	20.7	24.0	28.3	33.1	38.0	43.2	48.5	53.8	58.8	63.5	67.9	71.8	74.8	77.1	78.6	79.2
-70	11.5	14.7	19.6	24.0	30.1	36.9	44.5	52.7	61.3	70.3	79.0	87.1	94.6	101	107	112	116	118	119
-65	11.5	15.9	21.6	28.3	36.9	46.8	57.9	70.2	82.6	94.8	107	118	129	139	147	155	161	164	166
-60	11.5	17.1	23.7	33.0	44.3	57.8	73.2	88.8	105	121	137	152	168	182	194	205	214	220	223
-55	11.5	18.3	26.3	37.9	52.4	69.9	88.5	108	128	148	170	191	212	231	249	264	277	285	289
-50	11.5	19.2	28.8	42.9	60.8	81.8	104	127	152	178	205	233	260	287	313	335	353	365	372
-45	11.5	20.0	31.4	48.0	69.4	93.4	119	147	177	209	243	279	316	353	388	421	454	480	489
-40	11.5	20.7	33.9	53.0	77.6	104	134	166	202	241	283	329	378	438	508	582	661	746	827
-35	11.5	21.3	36.2	57.7	85.0	115	148	185	227	273	325	385	456	540	630	727	831	942	1059
-30	11.5	22.0	38.3	62.1	91.8	124	161	203	250	305	369	441	524	620	727	844	971	1108	1255
-25	11.5	22.5	40.2	66.3	97.7	133	173	219	272	336	426	525	634	753	882	1021	1170	1329	1498
-20	11.5	23.0	41.8	69.7	103	140	183	233	292	364	465	576	696	825	964	1113	1272	1441	1620
-15	11.5	23.3	43.2	72.4	107	146	191	244	308	393	497	612	737	876	1025	1184	1353	1532	1721
-10	11.5	23.6	44.1	74.3	109	150	197	252	319	428	548	678	817	966	1125	1294	1473	1662	1861
-5	11.5	23.8	44.7	75.4	111	152	200	256	326	465	612	769	936	1113	1299	1495	1701	1917	2144
0	11.5	23.8	44.8	75.8	111	153	201	257	326	478	643	820	1007	1204	1411	1628	1855	2092	2339
5	11.5	23.8	44.8	75.7	111	153	201	257	328	477	648	837	1034	1241	1458	1685	1922	2169	2426
10	11.5	23.7	44.3	74.8	110	151	199	254	323	439	617	816	1023	1240	1467	1704	1951	2208	2475
15	11.5	23.4	43.5	73.1	108	148	194	248	313	402	580	789	1016	1253	1500	1757	2024	2291	2568
20	11.5	23.1	42.3	70.6	104	142	187	238	299	374	552	761	998	1255	1522	1799	2086	2373	2670
25	11.5	22.7	40.7	67.4	99.5	135	177	225	281	347	525	734	971	1238	1515	1792	2079	2366	2673
30	11.5	22.1	39.0	63.5	93.8	127	166	210	259	317	495	704	941	1208	1485	1762	2049	2336	2663
35	11.5	21.5	36.9	59.1	87.3	118	153	193	236	286	464	673	910	1177	1454	1731	2018	2305	2650
40	11.5	20.8	34.6	54.5	80.1	108	139	174	212	254	443	652	889	1156	1433	1710	2007	2304	2647
45	11.5	20.2	32.2	49.6	72.0	97.1	124	154	187	222	422	631	868	1135	1412	1689	2006	2303	2644
50	11.5	19.4	29.6	44.5	63.4	85.6	109	134	161	190	401	610	847	1104	1381	1658	2005	2302	2643
55	11.5	18.5	27.0	39.4	55.0	73.6	93.6	114	136	160	380	589	826	1085	1362	1639	2004	2301	2642
60	11.5	17.3	24.3	34.5	46.8	61.4	78.0	95.0	113	130	359	568	805	1064	1341	1618	2003	2300	2641
65	11.5	16.1	22.1	29.6	39.1	50.1	62.4	76.1	89.8	103	338	547	784	1043	1320	1597	2002	2300	2640
70	11.5	14.9	20.1	25.1	32.0	39.8	48.5	57.9	67.9	78.1	317	526	763	1022	1300	1576	2001	2300	2640
75	11.5	13.6	17.8	21.4	25.4	30.6	36.3	42.3	48.6	55.0	306	505	742	1001	1280	1555	2000	2300	2640
80	11.5	12.6	15.1	18.0	20.6	23.0	25.7	29.1	32.7	36.2	295	484	721	980	1260	1534	2000	2300	2640
85	11.5	12.0	12.7	13.9	15.3	16.8	18.3	19.7	20.9	22.0	284	463	700	959	1240	1513	2000	2300	2640
90	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	273	442	679	938	1220	1493	2000	2300	2640

H(β) Range:-90 - 90DEG  
H(β) Interval: 0.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2015-11-19

V(B) Range:-90 - 90DEG  
V(B) Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V1.0.255  
Humidity:65.0%  
Test Distance:6.600m [K=1.0000]  
Remarks:

**LUMINOUS DISTRIBUTION INTENSITY DATA**

NAME:50W SMD LED HIGHBAY	TYPE:HIGHBAY	WEIGHT:
MODEL NO.:BR44-05022;BT44-05032	SPECIFICATION:	SERIAL No.:
DIMENSION:	SURFACE:	PROTECTION ANGLE:

Table--2

UNIT: cd

H( DEG) V( DEG)	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
-90	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
-85	23.7	23.8	23.8	23.6	23.3	22.9	22.4	21.8	21.1	20.3	19.4	18.2	17.0	15.8	14.6	13.6	13.1	12.5
-80	46.4	46.2	45.6	44.6	43.1	41.4	39.4	37.1	34.5	31.8	29.0	26.3	23.9	21.7	19.1	16.2	13.6	12.5
-75	79.2	78.3	76.7	74.2	71.0	67.1	62.9	58.3	53.3	48.2	42.8	37.4	32.0	27.1	23.1	19.4	14.8	12.5
-70	119	118	115	111	105	99.0	91.9	84.1	75.8	67.3	58.9	50.5	42.4	34.5	27.4	22.1	16.3	12.5
-65	166	163	158	152	144	135	125	113	102	89.3	77.0	65.0	53.6	42.8	32.7	24.5	17.8	12.5
-60	221	217	210	200	189	175	161	145	129	113	96.7	80.7	65.5	51.5	38.6	27.2	19.3	12.5
-55	287	280	270	256	240	221	201	180	159	138	117	97.2	78.0	60.4	44.5	30.4	20.7	12.5
-50	367	356	341	320	296	271	245	218	191	164	139	114	90.8	69.4	50.4	33.7	21.8	12.5
-45	491	462	428	396	362	328	292	257	224	191	160	131	104	78.3	56.2	37.0	22.7	12.5
-40	2161	1849	1656	884	453	391	343	299	257	218	182	147	116	87.0	61.8	40.1	23.5	12.5
-35	2971	2908	2812	2503	1933	648	400	341	291	245	202	163	127	95.3	67.0	43.0	24.3	12.5
-30	3267	3189	3074	2932	2761	2140	678	386	324	269	222	178	138	103	71.7	45.7	25.2	12.5
-25	3598	3489	3332	3155	2964	2756	2162	451	355	293	239	192	148	110	76.0	48.1	25.9	12.5
-20	4024	3863	3630	3375	3139	2910	2593	1283	385	314	254	203	157	115	79.7	50.1	26.5	12.5
-15	4508	4296	3977	3619	3297	3031	2782	2268	417	331	267	212	163	120	82.6	51.6	27.0	12.5
-10	5004	4721	4310	3858	3440	3123	2857	2477	475	343	276	219	168	124	84.8	52.8	27.4	12.5
-5	5470	5080	4565	4033	3545	3180	2900	2602	589	350	281	223	171	126	86.1	53.5	27.6	12.5
0	5824	5276	4680	4099	3580	3193	2909	2650	636	352	283	225	172	126	86.7	53.8	27.7	12.5
5	5541	5135	4607	4062	3567	3195	2909	2637	601	352	283	224	172	126	86.4	53.6	27.6	12.5
10	5137	4822	4384	3913	3482	3150	2873	2571	486	347	279	221	170	124	85.3	53.0	27.4	12.5
15	4672	4423	4073	3694	3352	3066	2801	2346	426	336	271	215	165	121	83.3	52.0	27.1	12.5
20	4188	4000	3739	3463	3198	2947	2694	1464	395	321	260	207	159	117	80.6	50.5	26.6	12.5
25	3760	3626	3443	3235	3018	2791	2291	474	366	302	246	196	151	112	77.2	48.6	26.0	12.5
30	3410	3305	3163	2997	2806	2405	812	402	336	279	229	183	142	105	73.1	46.4	25.3	12.5
35	3071	2991	2873	2726	2144	817	421	358	304	254	210	168	131	97.6	68.4	43.7	24.5	12.5
40	2652	2450	1963	1377	498	416	363	315	270	228	189	153	119	89.5	63.3	40.9	23.7	12.5
45	684	546	473	429	390	351	311	273	237	201	168	136	107	80.9	57.8	37.8	22.9	12.5
50	408	393	373	349	322	292	263	233	203	174	146	119	94.5	72.0	52.0	34.4	22.0	12.5
55	322	312	298	281	262	240	218	194	170	147	124	102	81.7	63.0	46.1	31.1	20.9	12.5
60	251	245	235	223	208	192	175	157	139	121	103	85.6	69.1	53.9	40.0	27.8	19.5	12.5
65	190	186	179	171	160	149	137	124	110	96.5	82.8	69.6	56.9	45.1	34.0	25.0	18.0	12.5
70	138	135	131	125	119	111	102	93.2	83.6	73.8	64.1	54.5	45.3	36.5	28.4	22.6	16.5	12.5
75	95.1	93.2	90.4	86.7	82.3	77.3	71.8	66.0	59.8	53.5	47.1	40.7	34.4	28.5	23.9	19.9	15.0	12.5
80	58.4	57.4	55.9	54.0	51.6	49.0	46.0	42.7	39.2	35.6	31.9	28.3	25.3	22.7	19.9	16.7	13.7	12.5
85	29.7	29.3	28.8	28.1	27.3	26.4	25.3	24.4	23.4	22.4	21.2	19.8	18.3	16.7	15.1	13.7	13.1	12.5
90	11.6	11.7	11.7	11.8	11.8	11.9	11.9	12.0	12.0	12.1	12.1	12.2	12.2	12.3	12.3	12.4	12.4	12.5

H(β) Range:-90 - 90DEG  
H(β) Interval: 0.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2015-11-19

V(B) Range:-90 - 90DEG  
V(B) Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V1.0.255  
Humidity:65.0%  
Test Distance:6.600m [K=1.0000]  
Remarks:

50% Beam Angle : 67°-H X 71°-V

one-half-peak spread: U:34.8,D:36.4 , L:33.8,R:33.1

TOTAL FLUX : 6775 lm

LOR : 112.9%

AVAILABILITY FLUX : 6052 lm

AVAILABILITY : 100.9%

