

## Floodlight Summary:

Report based on lamp delivering 1000 lumens.

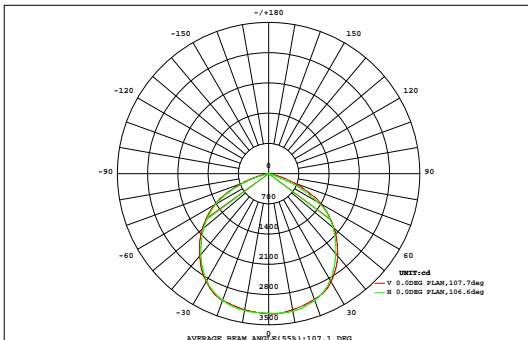
Maximum Intensity (Luminaire orientation as tested.)		366.2 cd per klm. 0.0 degrees vertical 0.0 degrees horizontal
Beam Spread	At 10% of I <sub>max</sub> At 50% of I <sub>max</sub> At 90% of I <sub>max</sub>	141.9V x 148.8H 112.3V x 113.4H 55.9V x 57.7H
Beam Flux	Total To 10% of I <sub>max</sub> To 50% of I <sub>max</sub> To 90% of I <sub>max</sub>	1000.0 lumens per klm. 986.9 lumens per klm. 796.7 lumens per klm. 272.5 lumens per klm.
	Upward LOR Downward LOR	0.3 % 99.7 %
Luminaire Efficiency(Light Output Ratio)		100.0 %

H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 0.5DEG  
Test Speed: HIGH  
Temperature:20DEG  
Operators:01  
Test Date:2017-03-04

V(B) Range:-180 - 180DEG  
V(B) Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
Humidity:%  
Test Distance:9.190m [K=1.0000]  
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:230.8V I:0.3597A P:79.44W PF:0.9570 Lamp Flux:8880.38x1 lm		
NAME: LED FLOOD LIGHT	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: Kili-LED Lighting Limited	SUR.:	PROTECTION ANGLE:



DATA OF LAMP		Eff:111.78lm/W	
MODEL	KLFD080	Imax(cd)	3252
NOMINAL POWER(W)	80	AVAILABILITY(%)	98.6
RATED VOLTAGE(V)	230	Avai. FLUX(lm)	8752
NOMINAL FLUX(lm)	8880.38	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	8880
TEST VOLTAGE(V)	230.7	θ @55%(H,V)	108,106DEG

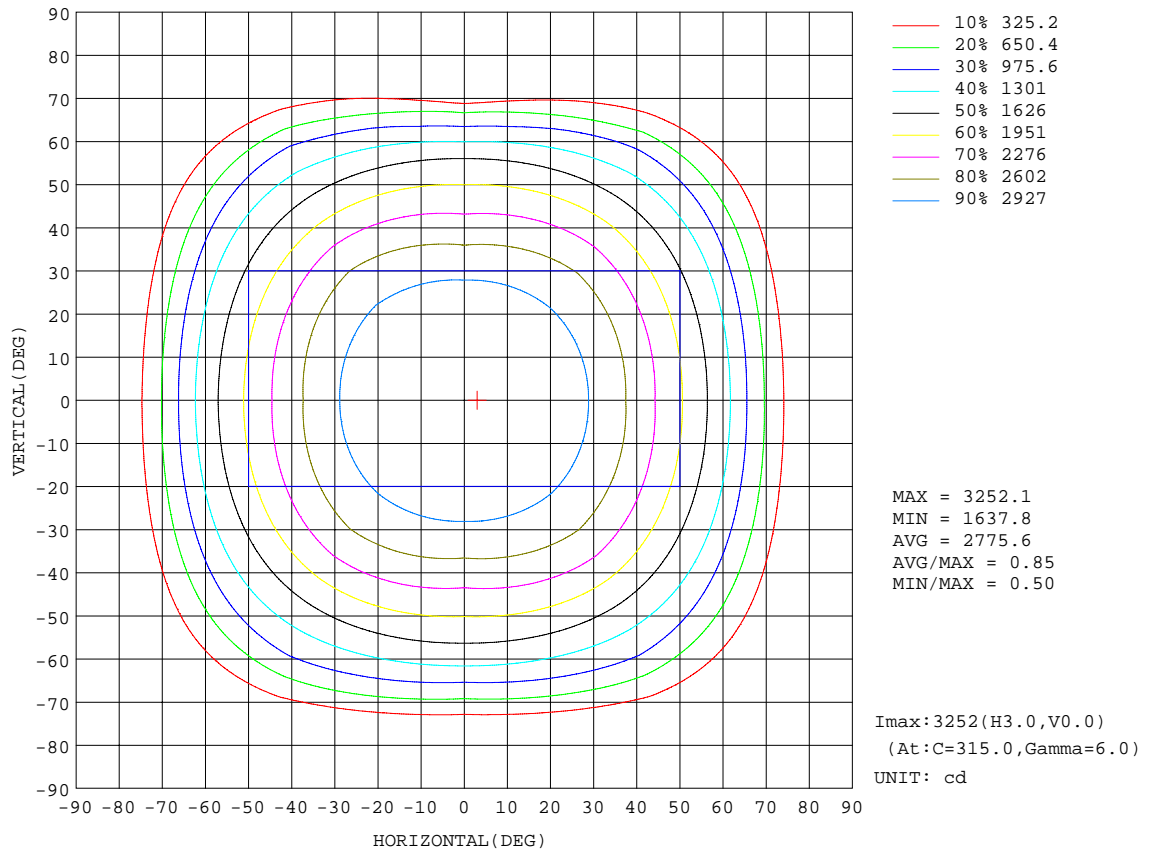
VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a
	0.01	0.02	0.05	0.08	0.12	0.14	0.15	0.15	0.13	0.13	0.15	0.15	0.14	0.12	0.07	0.04	0.02	0.00	1.67	0.00
90	0.01	0.02	0.05	0.08	0.12	0.14	0.15	0.15	0.13	0.13	0.15	0.15	0.14	0.12	0.07	0.04	0.02	0.00	1.67	0.00
80	0.01	0.04	0.11	0.36	1.08	2.19	3.07	3.19	2.42	2.30	2.86	2.65	1.84	0.89	0.30	0.10	0.03	0.01	23.4	0.00
70	0.01	0.06	0.70	3.51	9.21	15.6	20.5	23.8	24.7	24.5	23.3	19.7	14.4	8.15	2.96	0.54	0.06	0.01	192	177
60	0.01	0.23	2.90	10.5	21.7	31.8	40.4	47.0	50.4	50.4	46.9	40.1	31.3	20.7	9.55	2.47	0.17	0.01	407	402
50	0.01	0.70	6.03	17.6	30.7	43.4	54.7	62.8	66.4	66.4	62.7	54.6	43.1	30.2	16.7	5.42	0.55	0.01	562	559
40	0.02	1.34	9.11	22.8	37.7	53.2	67.2	76.2	80.2	80.1	75.8	66.7	52.9	37.3	22.2	8.43	1.12	0.01	692	690
30	0.02	1.96	11.5	26.6	43.2	60.7	76.1	85.8	90.7	90.6	85.4	75.5	60.3	42.8	26.0	10.8	1.71	0.02	790	788
	0.02	2.46	13.2	29.1	46.8	65.2	80.8	90.8	96.0	96.0	90.5	80.4	65.0	46.4	28.5	12.5	2.17	0.02	846	844
	0.03	2.74	14.0	30.3	48.4	67.2	83.1	92.7	97.6	97.8	92.5	82.8	67.1	48.1	29.7	13.3	2.44	0.02	870	869
	0.03	2.76	14.0	30.3	48.5	67.2	83.0	92.5	97.2	97.6	92.4	82.8	67.1	48.2	29.7	13.3	2.46	0.02	869	868
	0.02	2.51	13.2	29.1	46.9	65.2	80.6	90.3	95.7	95.8	90.5	80.6	65.2	46.6	28.6	12.6	2.24	0.02	846	844
-30	0.02	2.04	11.6	26.6	43.3	60.7	75.9	85.6	90.7	90.7	85.7	76.0	60.8	43.0	26.1	11.1	1.82	0.02	792	790
-40	0.02	1.42	9.38	22.9	37.8	53.5	67.3	76.5	80.8	80.8	76.6	67.5	53.6	37.5	22.4	8.90	1.24	0.01	698	696
-50	0.01	0.76	6.47	17.8	30.7	43.6	55.1	63.2	66.9	66.9	63.3	55.2	43.6	30.5	17.4	6.07	0.64	0.01	568	565
-60	0.01	0.25	3.31	11.4	22.2	32.3	41.2	47.8	51.2	51.2	47.8	41.2	32.2	22.0	11.0	3.05	0.20	0.01	418	414
-70	0.01	0.06	0.85	4.35	10.9	18.2	24.2	28.5	30.6	30.5	28.4	24.0	17.9	10.6	4.14	0.74	0.06	0.01	234	225
-80	0.01	0.04	0.10	0.44	1.59	3.11	4.61	5.58	5.60	5.57	5.52	4.55	3.10	1.59	0.42	0.10	0.04	0.01	42.0	20.7
-90	0.01	0.02	0.05	0.09	0.12	0.14	0.14	0.13	0.10	0.11	0.13	0.14	0.14	0.12	0.08	0.05	0.02	0.00	1.60	0.00
	-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL (DEG)	20	30	40	50	60	70	80	90			
Φ t	0.28	19.4	117	284	481	683	858	973	1027	1028	971	855	680	475	276	110	17.0	0.22	8852	---
Φ a	0.00	10.9	110	278	475	677	852	967	1022	1023	965	849	674	469	270	102	8.64	0.00	---	8752

one-half-peak spread: U:56.6,D:51.3 , L:60.3,R:53.6 NEMA Beam Type: Type 7

H(β) Range:-90 - 90DEG  
H(β) Interval: 0.5DEG  
Test Speed: HIGH  
Temperature:20DEG  
Operators:01  
Test Date:2017-03-04  
V(B) Range:-180 - 180DEG  
V(B) Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
Humidity:%  
Test Distance:9.190m [K=1.0000]  
Remarks:

**ISOCANDELA DIAGRAM**

Test:U:230.8V I:0.3597A P:79.44W PF:0.9570 Lamp Flux:8880.38x1 lm		
NAME: LED FLOOD LIGHT	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: Kili-LED Lighting Limited	SUR.:	PROTECTION ANGLE:

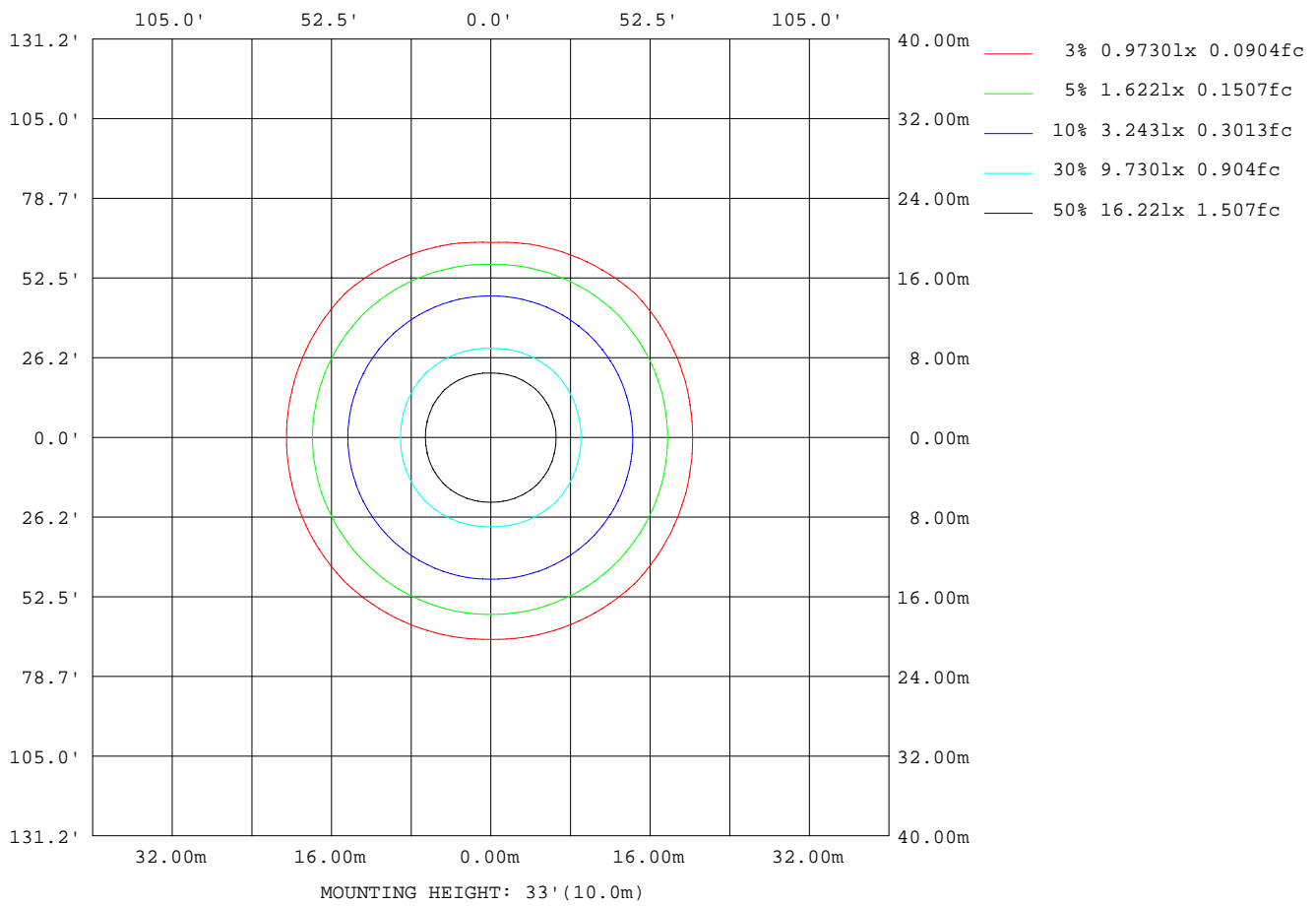


H( $\beta$ ) Range:-90 - 90DEG  
 H( $\beta$ ) Interval: 0.5DEG  
 Test Speed: HIGH  
 Temperature:20DEG  
 Operators:01  
 Test Date:2017-03-04

V(B) Range:-180 - 180DEG  
 V(B) Interval: 0.5DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
 Humidity:%  
 Test Distance:9.190m [K=1.0000]  
 Remarks:

**ISOLUX DIAGRAM**

Test:U:230.8V I:0.3597A P:79.44W PF:0.9570 Lamp Flux:8880.38x1 lm		
NAME: LED FLOOD LIGHT	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: Kili-LED Lighting Limited	SUR.:	PROTECTION ANGLE:

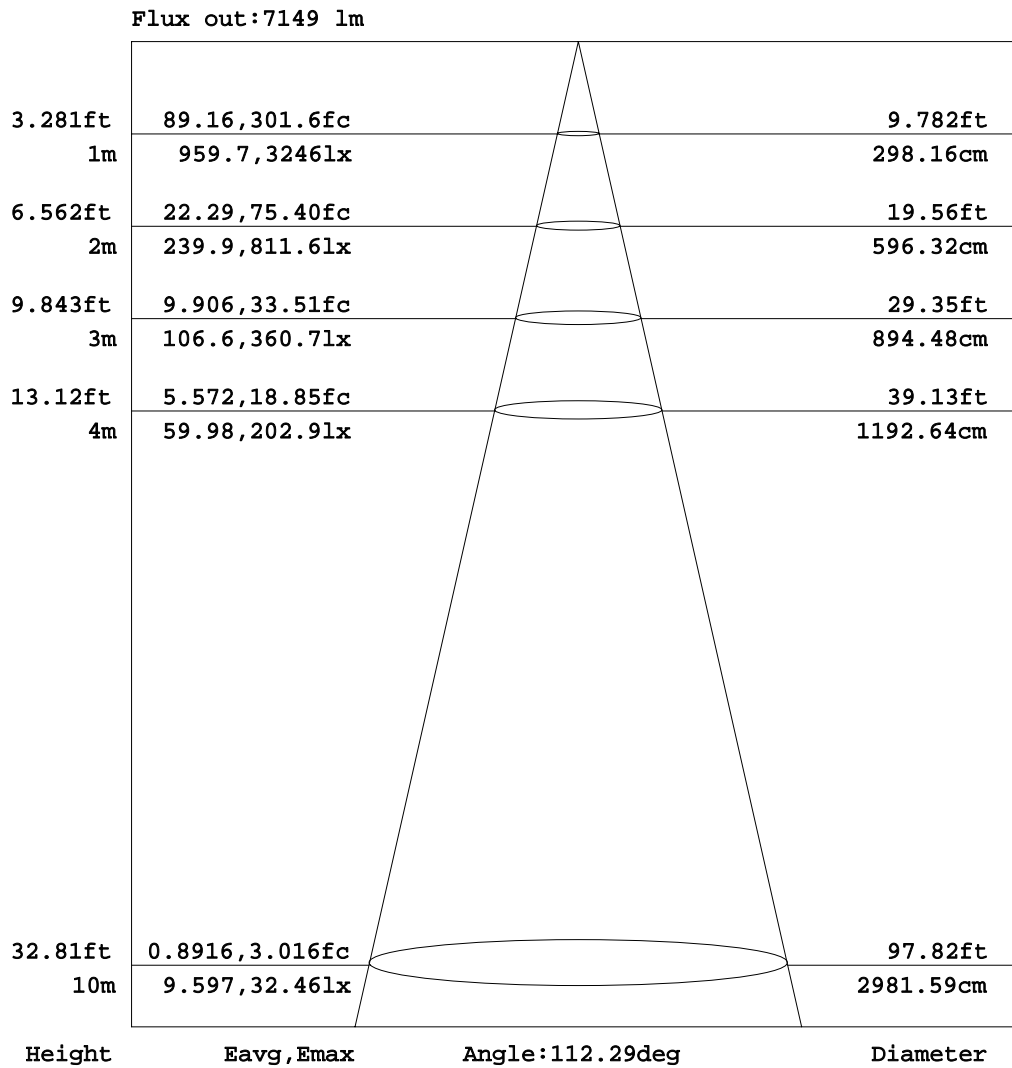


H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 0.5DEG  
Test Speed: HIGH  
Temperature:20DEG  
Operators:01  
Test Date:2017-03-04

V(B) Range:-180 - 180DEG  
V(B) Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
Humidity:%  
Test Distance:9.190m [K=1.0000]  
Remarks:

AAI Figure

Test:U:230.8V I:0.3597A P:79.44W PF:0.9570 Lamp Flux:8880.38x1 lm		
NAME: LED FLOOD LIGHT	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: Kili-LED Lighting Limited	SUR.:	PROTECTION ANGLE:

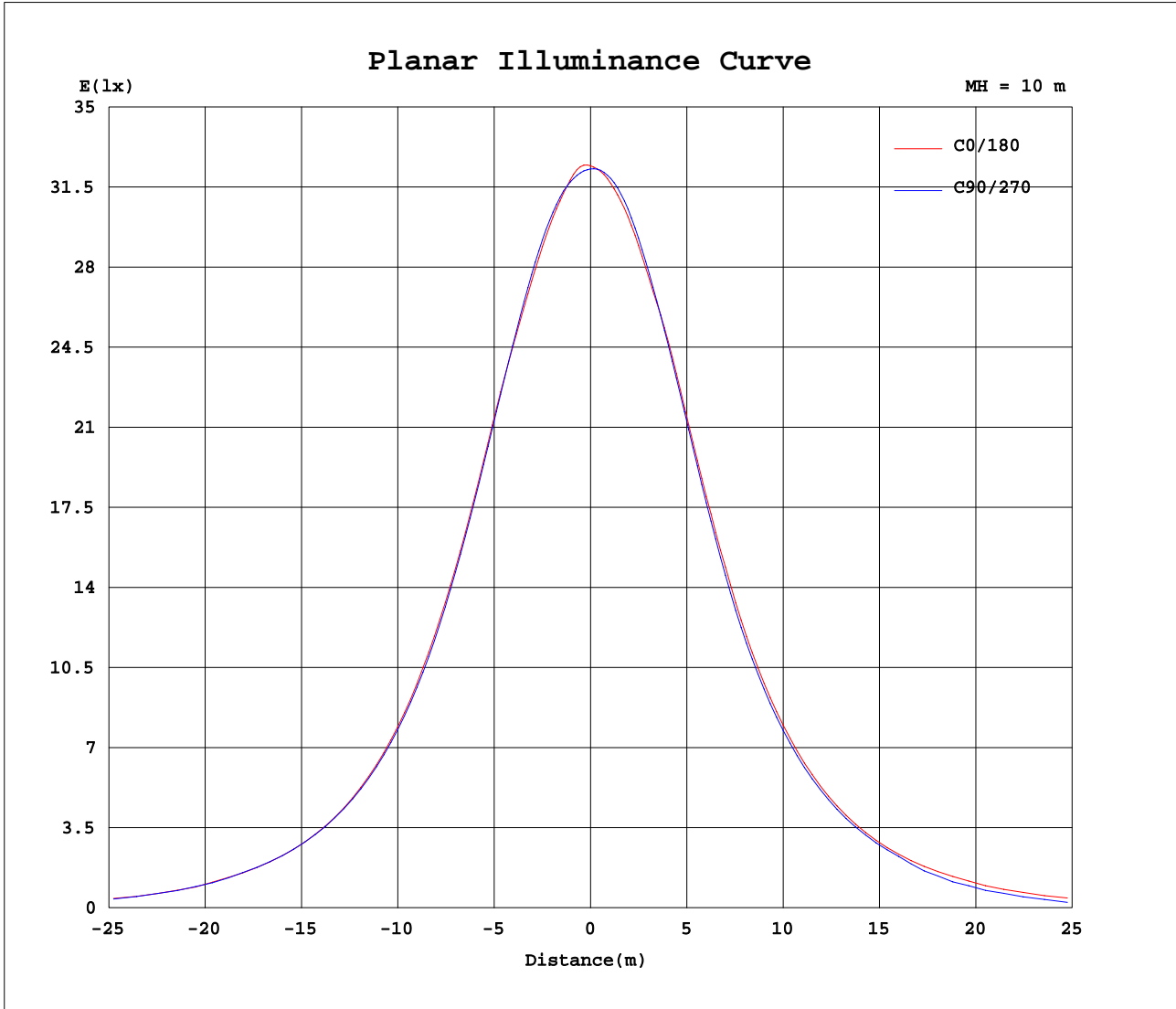


Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 0.5DEG  
Test Speed: HIGH  
Temperature:20DEG  
Operators:01  
Test Date:2017-03-04

V(B) Range:-180 - 180DEG  
V(B) Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
Humidity:%  
Test Distance:9.190m [K=1.0000]  
Remarks:

Planar Illuminance Curve



H( $\beta$ ) Range:-90 - 90DEG  
 H( $\beta$ ) Interval: 0.5DEG  
 Test Speed: HIGH  
 Temperature:20DEG  
 Operators:01  
 Test Date:2017-03-04

V(B) Range:-180 - 180DEG  
 V(B) Interval: 0.5DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
 Humidity:%  
 Test Distance:9.190m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.8V I:0.3597A P:79.44W PF:0.9570 Lamp Flux:8880.38x1 lm		
NAME: LED FLOOD LIGHT	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: Kili-LED Lighting Limited	SUR.:	PROTECTION ANGLE:

Table--1

UNIT: cd

H(β) \ V(β)	-90	-85	-80	-75	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
-180	1.31	0.84	1.23	1.82	2.55	3.30	4.09	4.85	5.55	6.21	6.78	7.28	7.76	8.22	8.74	9.23	9.70	10.1	9.98
-170	1.31	0.84	1.21	1.78	2.49	3.23	4.00	4.76	5.45	6.11	6.66	7.16	7.62	8.04	8.47	8.85	9.15	9.41	9.55
-160	1.31	0.83	1.16	1.69	2.35	3.03	3.76	4.48	5.14	5.78	6.33	6.81	7.22	7.61	7.93	8.25	8.54	8.75	8.87
-150	1.31	0.81	1.09	1.54	2.12	2.73	3.38	4.03	4.66	5.23	5.77	6.23	6.63	6.96	7.28	7.58	7.80	7.96	8.07
-140	1.31	0.80	1.01	1.37	1.82	2.35	2.87	3.43	3.97	4.48	4.96	5.39	5.79	6.13	6.41	6.65	6.84	6.97	7.05
-130	1.31	0.77	0.92	1.16	1.49	1.88	2.31	2.73	3.13	3.55	3.95	4.31	4.63	4.91	5.15	5.35	5.50	5.60	5.64
-120	1.31	0.76	0.82	0.98	1.17	1.42	1.69	1.98	2.28	2.56	2.81	3.03	3.26	3.46	3.63	3.76	3.86	3.92	3.93
-110	1.31	0.75	0.77	0.82	0.92	1.03	1.15	1.29	1.44	1.59	1.72	1.83	1.92	2.00	2.07	2.12	2.14	2.14	2.11
-100	1.31	0.86	0.76	0.75	0.76	0.77	0.78	0.82	0.85	0.89	0.91	0.92	0.92	0.91	0.91	0.90	0.88	0.85	0.82
-90	1.31	1.42	1.53	1.64	1.75	1.86	1.97	2.08	2.19	2.30	2.14	1.98	1.82	1.65	1.49	1.33	1.16	1.00	0.84
-80	1.31	2.32	3.09	3.86	4.64	5.45	6.29	7.16	8.03	8.87	8.79	8.49	8.10	8.03	9.80	9.67	8.11	5.55	2.49
-70	1.31	2.85	4.17	5.73	7.64	10.8	32.8	83.6	150	230	294	364	442	498	538	569	586	588	575
-60	1.31	3.32	5.41	8.37	36.3	131	267	428	613	806	951	1045	1135	1213	1286	1350	1388	1410	1416
-50	1.31	3.77	6.88	30.9	162	355	599	857	1062	1245	1395	1531	1652	1755	1838	1900	1941	1960	1960
-40	1.31	4.19	8.47	102	317	602	904	1170	1403	1601	1783	1960	2116	2240	2330	2395	2435	2451	2442
-30	1.31	4.57	13.5	180	458	813	1133	1426	1666	1893	2112	2314	2489	2629	2724	2793	2837	2861	2864
-20	1.31	4.87	27.6	247	579	952	1320	1600	1860	2108	2337	2542	2725	2862	2952	3013	3063	3099	3119
-10	1.31	5.03	41.4	292	647	1045	1415	1706	1975	2229	2456	2674	2852	2983	3073	3123	3164	3197	3219
0	1.31	5.06	46.6	308	665	1067	1451	1744	2012	2257	2482	2711	2891	3040	3123	3160	3200	3223	3243
10	1.31	5.02	41.0	288	640	1044	1415	1705	1972	2226	2456	2677	2856	2990	3083	3139	3185	3214	3235
20	1.31	4.85	27.3	239	565	949	1319	1599	1856	2102	2333	2545	2732	2870	2966	3026	3074	3107	3120
30	1.31	4.55	13.7	170	435	795	1130	1425	1663	1885	2102	2306	2488	2637	2726	2790	2831	2852	2849
40	1.31	4.14	8.66	94.3	295	571	889	1164	1401	1598	1776	1944	2102	2228	2320	2384	2422	2432	2419
50	1.31	3.70	6.98	29.5	143	322	553	821	1053	1240	1392	1527	1644	1744	1824	1887	1929	1949	1950
60	1.31	3.23	5.36	8.71	32.9	109	223	365	544	735	914	1006	1080	1156	1202	1261	1290	1300	1293
70	1.31	2.75	4.00	5.66	7.93	11.7	27.2	60.2	103	159	222	269	301	323	325	313	289	251	202
80	1.31	2.24	2.88	3.54	4.28	5.15	6.11	7.27	8.50	9.77	10.1	10.1	9.91	9.55	9.45	8.80	7.71	6.31	4.70
90	1.31	1.45	1.59	1.72	1.86	2.00	2.14	2.28	2.41	2.55	2.59	2.62	2.65	2.69	2.72	2.76	2.79	2.83	2.86
100	1.31	1.01	1.16	1.41	1.65	1.86	2.03	2.15	2.24	2.30	2.32	2.34	2.36	2.39	2.42	2.46	2.51	2.57	2.63
110	1.31	0.94	1.20	1.41	1.54	1.65	1.73	1.78	1.80	1.81	1.94	2.12	2.25	2.37	2.46	2.52	2.55	2.57	2.57
120	1.31	0.95	1.19	1.37	1.53	1.67	1.81	2.09	2.40	2.69	2.97	3.23	3.49	3.71	3.90	4.05	4.17	4.26	4.30
130	1.31	0.95	1.19	1.41	1.64	1.95	2.39	2.81	3.25	3.69	4.08	4.46	4.80	5.10	5.34	5.54	5.70	5.80	5.86
140	1.31	0.94	1.19	1.51	1.86	2.40	2.94	3.52	4.06	4.59	5.08	5.50	5.87	6.20	6.49	6.73	6.93	7.05	7.13
150	1.31	0.92	1.22	1.60	2.15	2.77	3.44	4.09	4.72	5.31	5.83	6.27	6.67	7.01	7.33	7.62	7.85	8.03	8.14
160	1.31	0.90	1.24	1.72	2.37	3.06	3.80	4.52	5.19	5.81	6.36	6.84	7.25	7.63	8.00	8.34	8.64	8.86	9.01
170	1.31	0.87	1.25	1.79	2.51	3.25	4.02	4.78	5.47	6.12	6.67	7.17	7.63	8.08	8.50	8.90	9.22	9.51	9.67
180	1.31	0.84	1.23	1.82	2.55	3.30	4.09	4.85	5.55	6.21	6.78	7.28	7.76	8.22	8.74	9.23	9.70	10.1	9.99

H(β) Range:-90 - 90DEG  
H(β) Interval: 0.5DEG  
Test Speed: HIGH  
Temperature:20DEG  
Operators:01  
Test Date:2017-03-04

V(β) Range:-180 - 180DEG  
V(β) Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
Humidity:%  
Test Distance:9.190m [K=1.0000]  
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.8V I:0.3597A P:79.44W PF:0.9570 Lamp Flux:8880.38x1 lm		
NAME: LED FLOOD LIGHT	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: Kili-LED Lighting Limited	SUR.:	PROTECTION ANGLE:

Table--2

UNIT: cd

H(β) \ V(β)	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
-180	10.0	9.63	9.14	8.64	8.14	7.67	7.22	6.74	6.19	5.60	4.89	4.16	3.40	2.62	1.90	1.27	0.86	0.72
-170	9.48	9.27	8.96	8.58	8.13	7.68	7.21	6.70	6.13	5.51	4.81	4.08	3.32	2.56	1.86	1.26	0.85	0.72
-160	8.83	8.70	8.54	8.23	7.82	7.39	6.94	6.41	5.85	5.22	4.55	3.85	3.12	2.41	1.77	1.21	0.84	0.72
-150	8.03	7.92	7.75	7.50	7.21	6.83	6.36	5.87	5.32	4.73	4.10	3.46	2.80	2.18	1.62	1.14	0.81	0.72
-140	7.01	6.92	6.75	6.53	6.24	5.90	5.51	5.06	4.57	4.05	3.51	2.94	2.41	1.89	1.43	1.05	0.78	0.72
-130	5.61	5.53	5.40	5.22	4.99	4.71	4.39	4.02	3.62	3.20	2.78	2.36	1.95	1.57	1.22	0.94	0.76	0.72
-120	3.93	3.88	3.80	3.67	3.50	3.31	3.09	2.86	2.60	2.33	2.05	1.77	1.49	1.24	1.02	0.85	0.74	0.72
-110	2.14	2.15	2.13	2.09	2.03	1.96	1.88	1.78	1.66	1.52	1.37	1.22	1.09	0.96	0.86	0.77	0.73	0.72
-100	0.86	0.90	0.93	0.95	0.96	0.97	0.97	0.97	0.96	0.93	0.89	0.84	0.80	0.77	0.74	0.74	0.75	0.72
-90	0.94	1.05	1.15	1.26	1.37	1.47	1.58	1.68	1.79	1.67	1.55	1.43	1.31	1.19	1.07	0.96	0.84	0.72
-80	5.87	8.73	10.6	11.0	9.41	9.27	9.12	9.15	9.20	8.21	7.20	6.21	5.27	4.35	3.47	2.48	1.26	0.72
-70	584	580	562	531	486	428	358	291	225	146	76.9	27.8	10.1	7.41	5.41	3.75	2.18	0.72
-60	1409	1388	1348	1284	1211	1131	1040	943	787	590	409	250	114	26.2	7.99	5.01	2.84	0.72
-50	1961	1942	1902	1839	1754	1652	1532	1391	1233	1041	832	565	332	142	20.7	6.44	3.29	0.72
-40	2452	2438	2400	2337	2246	2122	1961	1777	1590	1386	1137	875	562	288	79.3	7.91	3.71	0.72
-30	2861	2837	2793	2728	2637	2498	2317	2108	1880	1647	1402	1094	772	428	154	9.61	4.08	0.72
-20	3104	3071	3022	2956	2861	2726	2549	2334	2096	1837	1571	1288	905	530	217	16.6	4.36	0.72
-10	3205	3172	3128	3068	2985	2850	2674	2461	2215	1952	1674	1379	995	604	255	23.8	4.51	0.72
0	3243	3200	3152	3096	3029	2888	2702	2484	2239	1984	1705	1410	1021	625	266	26.0	4.52	0.72
10	3218	3183	3131	3066	2983	2845	2667	2454	2207	1947	1671	1376	991	595	249	23.3	4.50	0.72
20	3105	3069	3018	2950	2850	2712	2533	2319	2084	1831	1565	1283	890	510	205	16.2	4.34	0.72
30	2847	2821	2774	2706	2612	2471	2292	2088	1869	1638	1392	1083	736	398	141	9.74	4.05	0.72
40	2429	2415	2375	2311	2217	2094	1939	1764	1575	1373	1122	830	515	255	69.6	8.14	3.65	0.72
50	1948	1928	1886	1822	1739	1634	1511	1371	1211	1016	758	497	280	117	18.5	6.54	3.20	0.72
60	1298	1285	1253	1192	1141	1062	980	841	668	487	322	188	85.0	21.2	8.39	4.93	2.74	0.72
70	245	276	294	298	288	265	230	186	127	84.6	45.4	19.7	10.9	7.75	5.32	3.55	2.09	0.72
80	6.14	7.45	8.57	9.45	10.0	10.5	10.7	10.7	10.2	8.70	7.27	5.97	4.86	3.93	3.14	2.30	1.24	0.72
90	2.85	2.83	2.82	2.81	2.79	2.78	2.77	2.75	2.74	2.51	2.29	2.06	1.84	1.62	1.39	1.17	0.94	0.72
100	2.58	2.54	2.50	2.47	2.45	2.44	2.43	2.44	2.44	2.37	2.27	2.14	1.96	1.72	1.46	1.20	0.95	0.72
110	2.57	2.55	2.51	2.45	2.36	2.25	2.12	1.96	1.87	1.87	1.86	1.82	1.74	1.61	1.47	1.22	0.95	0.72
120	4.26	4.18	4.05	3.90	3.70	3.47	3.22	2.94	2.67	2.40	2.11	1.87	1.73	1.60	1.43	1.23	0.95	0.72
130	5.81	5.70	5.55	5.34	5.09	4.79	4.45	4.09	3.70	3.27	2.83	2.41	2.00	1.71	1.47	1.22	0.94	0.72
140	7.07	6.95	6.75	6.52	6.24	5.90	5.51	5.08	4.60	4.09	3.55	2.98	2.44	1.92	1.57	1.24	0.94	0.72
150	8.06	7.93	7.72	7.45	7.10	6.71	6.32	5.86	5.33	4.74	4.13	3.49	2.82	2.20	1.68	1.27	0.93	0.72
160	8.91	8.73	8.47	8.15	7.76	7.34	6.87	6.38	5.85	5.23	4.56	3.87	3.13	2.43	1.79	1.29	0.91	0.72
170	9.56	9.33	8.98	8.55	8.10	7.64	7.18	6.66	6.12	5.51	4.81	4.09	3.33	2.57	1.87	1.29	0.89	0.72
180	10.0	9.63	9.14	8.64	8.14	7.67	7.22	6.74	6.19	5.60	4.89	4.16	3.40	2.62	1.90	1.27	0.86	0.72

H(β) Range:-90 - 90DEG  
H(β) Interval: 0.5DEG  
Test Speed: HIGH  
Temperature:20DEG  
Operators:01  
Test Date:2017-03-04

V(β) Range:-180 - 180DEG  
V(β) Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
Humidity:%  
Test Distance:9.190m [K=1.0000]  
Remarks: