

Manufacturer:
NOMO GROUP CO., LIMITED
Manufacturer Address:
First Economy Industrial Area, Jiangxia Town, Baiyun District, Guangzhou, Guangdong, China
E-mail:
sales@led-floodlight.com
TEL:
86-186-88384867
FAX:
86-020-26287877

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

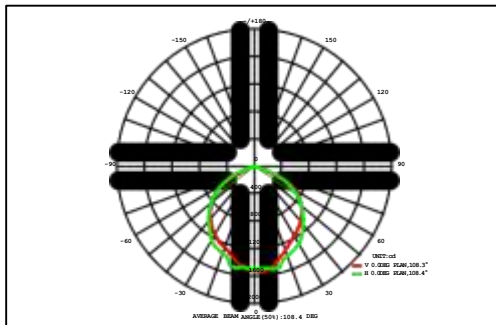
Maximum Intensity (Luminaire orientation as tested.)		312.2 cd per klm. 0.0 degrees vertical 0.0 degrees horizontal
Beam Spread	At 10% of I _{max} At 50% of I _{max} At 90% of I _{max}	142.0V x 132.3H 108.2V x 106.7H 41.2V x 28.9H
Beam Flux	Total To 10% of I _{max} To 50% of I _{max} To 90% of I _{max}	756.8 lumens per klm. 741.4 lumens per klm. 575.4 lumens per klm. 87.9 lumens per klm.
	Upward LOR Downward LOR	0.8 % 74.9 %
Luminaire Efficiency (Light Output Ratio)		75.7 %

H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2012-08-16

V(B) Range:-180 - 180DEG
V(B) Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.267
Humidity:65.0%
Test Distance:8.250m [K=1.0000]
Remarks:sales@led321.com

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:224.4V I:0.2250A P:49.30W PF:0.9750 Lamp Flux:4930x1 lm		
NAME: 50W_Flood Light-110Degree_Cover(6000-6500 K)	TYPE:LED Flood Light	WEIGHT:3.45 KG
DIM.: 23.5*28.5*27.5 CM	SPEC.:FL-1*50W	SERIAL No.:
MFR.: NOMO GROUP CO.,LIMITED	SUR.:21.5*16.5 CM	PROTECTION ANGLE:



DATA OF LAMP		Eff:75.67lm/W	
MODEL	50W_Flood Light	I _{max} (cd)	1539
NOMINAL POWER(W)	50	AVAILABILITY(%)	74.1
RATED VOLTAGE(V)	224	Avai. FLUX(lm)	3653
NOMINAL FLUX(lm)	4930	LOR(%)	75.7
LAMPS INSIDE	1	TOTAL FLUX(lm)	3731
TEST VOLTAGE(V)	224.4	@50% (H,V)	107,108DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm		φ t	φ a
	0.01	0.02	0.04	0.05	0.07	0.09	0.11	0.13	0.15	0.15	0.15	0.15	0.14	0.12	0.09	0.05	0.03	0.01		
90	0.01	0.02	0.04	0.05	0.07	0.09	0.11	0.13	0.15	0.15	0.15	0.14	0.12	0.09	0.05	0.03	0.01	1.56	0.00	
80	0.01	0.02	0.05	0.09	0.16	0.23	0.40	0.82	1.19	1.68	2.07	1.66	0.93	0.39	0.20	0.11	0.05	0.01	10.1	3.77
70	0.01	0.03	0.09	0.20	1.05	4.76	9.07	12.1	13.8	14.4	13.9	12.5	9.65	5.12	0.96	0.18	0.07	0.01	97.9	94.1
60	0.01	0.04	0.15	1.02	6.90	13.2	17.3	20.6	22.7	23.2	22.0	19.6	16.2	11.3	3.86	0.31	0.09	0.02	178	176
50	0.01	0.06	0.22	3.43	12.1	18.1	23.1	27.1	29.7	30.2	28.3	25.0	20.6	15.1	8.45	0.94	0.11	0.02	243	241
40	0.01	0.08	0.45	7.42	15.2	21.6	27.3	32.4	35.9	36.7	34.3	29.5	23.7	17.4	11.1	2.62	0.14	0.02	296	294
30	0.01	0.09	1.26	10.1	17.2	24.0	30.2	35.9	39.9	41.1	38.1	32.2	25.7	19.0	12.5	4.14	0.16	0.02	331	330
20	0.01	0.10	2.22	11.4	18.6	25.5	32.3	38.4	43.5	44.8	40.9	34.0	26.8	20.2	13.4	5.09	0.18	0.02	358	357
10	0.01	0.11	2.73	12.0	19.4	26.7	33.4	39.1	44.4	45.7	41.5	34.5	27.6	20.9	13.9	5.46	0.19	0.02	368	367
0	0.01	0.11	2.71	12.0	19.3	26.4	33.1	38.8	43.8	45.7	41.5	34.6	27.5	20.9	13.9	5.43	0.18	0.02	366	365
-10	0.01	0.10	2.18	11.2	18.2	24.8	31.3	37.2	42.5	44.2	40.4	33.7	26.5	20.2	13.5	4.99	0.17	0.02	351	350
-20	0.01	0.09	1.22	9.78	16.6	23.1	29.1	34.6	38.8	40.0	37.0	31.3	25.2	19.0	12.5	3.93	0.15	0.02	322	321
-30	0.01	0.08	0.43	7.06	14.4	20.5	26.0	30.6	34.0	34.8	32.6	28.3	23.0	17.1	10.9	2.32	0.13	0.02	282	281
-40	0.01	0.06	0.23	3.19	11.2	16.8	21.5	25.2	27.8	28.4	26.8	23.8	19.4	14.4	7.86	0.76	0.11	0.02	228	226
-50	0.01	0.05	0.16	0.95	6.19	11.9	15.8	18.8	20.9	21.6	20.8	18.4	15.0	10.5	3.38	0.28	0.09	0.02	165	162
-60	0.01	0.04	0.10	0.21	0.97	4.07	7.63	10.4	12.0	12.6	12.5	11.3	8.72	4.37	0.71	0.17	0.07	0.02	85.8	81.9
-70	0.01	0.03	0.07	0.12	0.18	0.25	0.35	0.60	0.90	1.33	1.65	1.26	0.63	0.29	0.19	0.11	0.05	0.01	8.05	1.56
-80	0.01	0.03	0.06	0.08	0.11	0.13	0.16	0.18	0.19	0.20	0.19	0.18	0.16	0.14	0.11	0.07	0.04	0.01	2.06	0.00
-90	0.01	0.03	0.06	0.08	0.11	0.13	0.16	0.18	0.19	0.20	0.19	0.18	0.16	0.14	0.11	0.07	0.04	0.01	2.06	0.00
	-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL (DEG)	20	30	40	50	60	70	80	90			
φ t	0.17	1.15	14.4	90.4	178	262	338	403	452	467	435	372	297	216	128	37.0	2.02	0.34	3693	---
φ a	0.00	0.00	10.2	86.5	175	260	336	401	450	465	433	370	295	214	124	32.5	0.00	0.00	---	3653

one-half-peak spread: U:40.4,D:41.4 , L:55.8,R:47.6

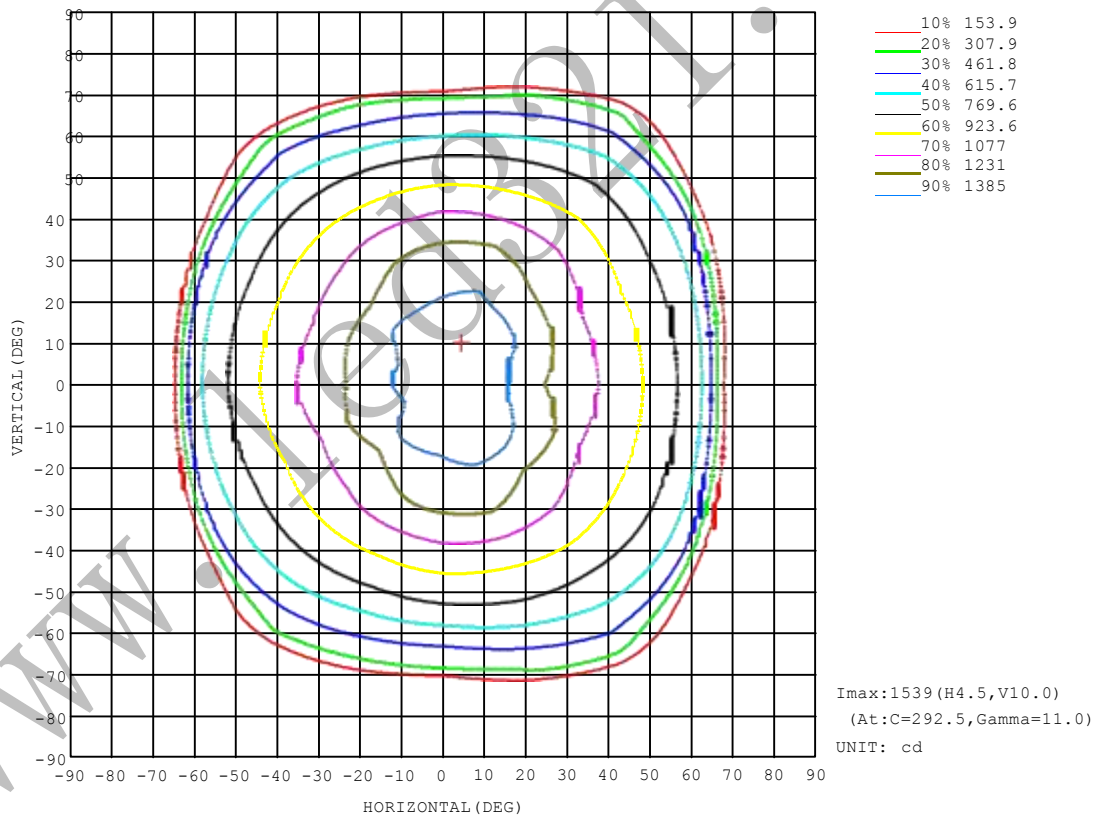
NEMA Beam Type: Type 7

H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2012-08-16

V(B) Range:-180 - 180DEG
V(B) Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.267
Humidity:65.0%
Test Distance:8.250m [K=1.0000]
Remarks:sales@led321.com

ISOCANDELA DIAGRAM

Test:U:224.4V I:0.2250A P:49.30W PF:0.9750 Lamp Flux:4930x1 lm		
NAME: 50W_Flood Light-110Degree_Cover(6000-6500 K)	TYPE:LED Flood Light	WEIGHT:3.45 KG
DIM.: 23.5*28.5*27.5 CM	SPEC.:FL-1*50W	SERIAL No.:
MFR.: NOMO GROUP CO.,LIMITED	SUR.:21.5*16.5 CM	PROTECTION ANGLE:

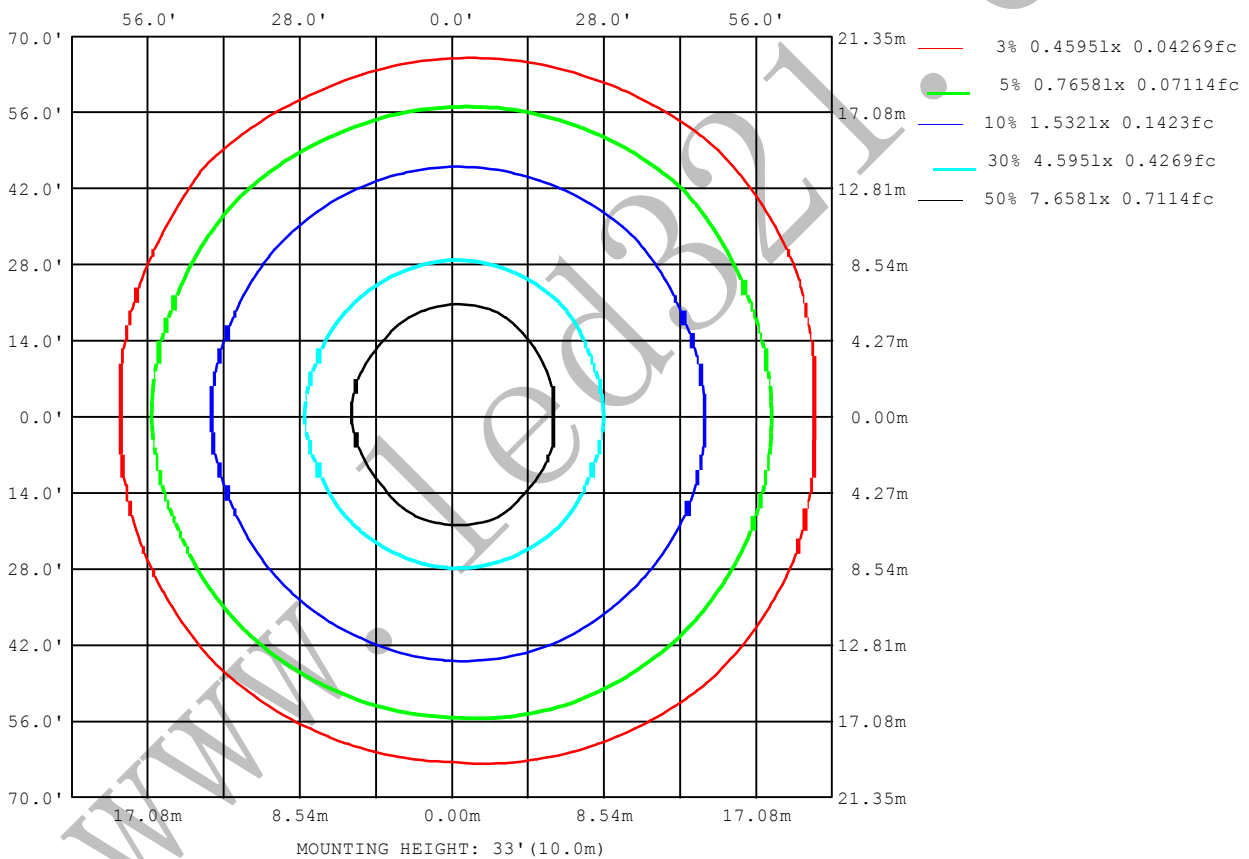


H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2012-08-16

V(B) Range:-180 - 180DEG
V(B) Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.267
Humidity:65.0%
Test Distance:8.250m [K=1.0000]
Remarks:sales@led321.com

ISOLUX DIAGRAM

Test:U:224.4V I:0.2250A P:49.30W PF:0.9750 Lamp Flux:4930x1 lm		
NAME: 50W_Flood Light-110Degree_Cover(6000-6500 K)	TYPE:LED Flood Light	WEIGHT:3.45 KG
DIM.: 23.5*28.5*27.5 CM	SPEC.:FL-1*50W	SERIAL No.:
MFR.: NOMO GROUP CO.,LIMITED	SUR.:21.5*16.5 CM	PROTECTION ANGLE:



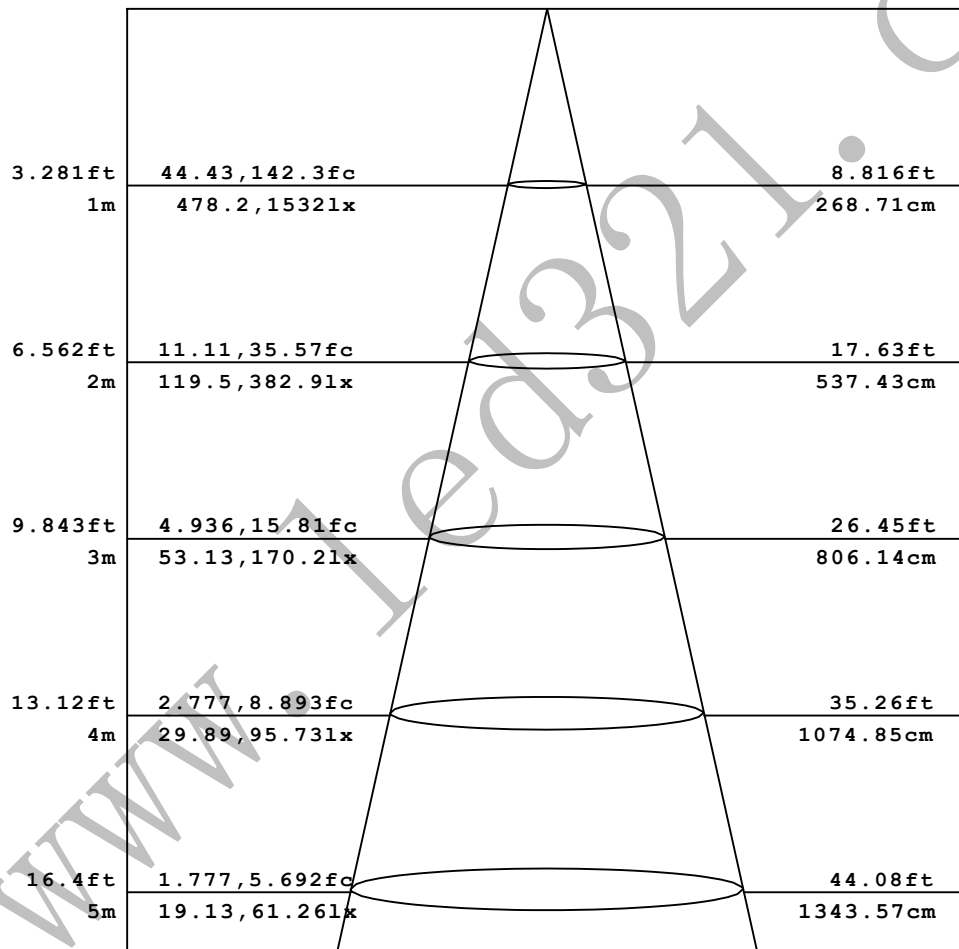
H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2012-08-16

V(B) Range:-180 - 180DEG
V(B) Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.267
Humidity:65.0%
Test Distance:8.250m [K=1.0000]
Remarks:sales@led321.com

AAI Figure

Test:U:224.4V I:0.2250A P:49.30W PF:0.9750 Lamp Flux:4930x1 lm		
NAME: 50W_Flood Light-110Degree_Cover(6000-6500 K)	TYPE:LED Flood Light	WEIGHT:3.45 KG
DIM.: 23.5*28.5*27.5 CM	SPEC.:FL-1*50W	SERIAL No.:
MFR.: NOMO GROUP CO.,LIMITED	SUR.:21.5*16.5 CM	PROTECTION ANGLE:

Flux out:2846 lm



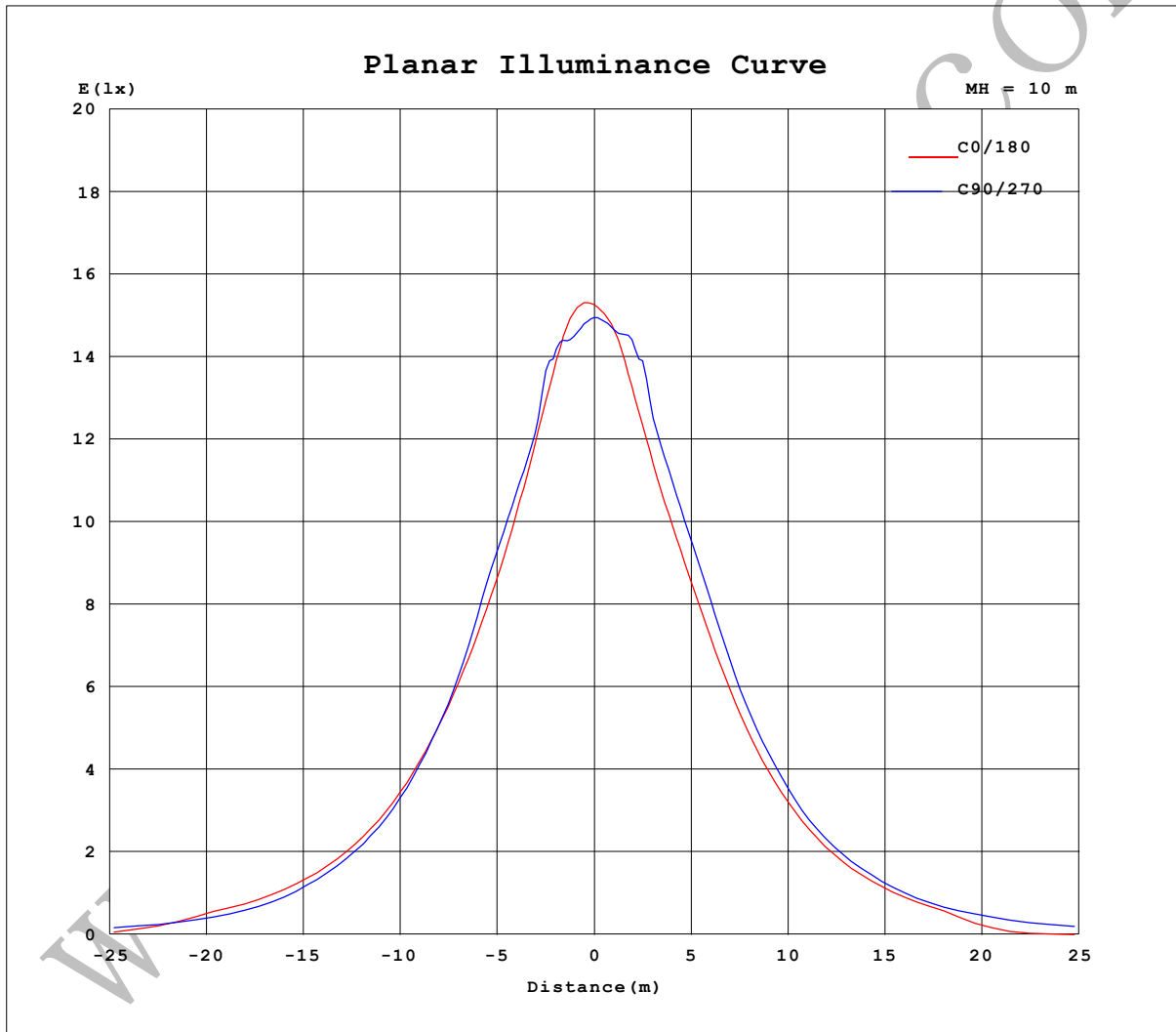
Height Eavg, Emax Angle:106.68deg Diameter

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:DAMIN
Test Date:2012-08-16

V(B) Range:-180 - 180DEG
V(B) Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.267
Humidity:65.0%
Test Distance:8.250m [K=1.0000]
Remarks:sales@led321.com

Planar Illuminance Curve



H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2012-08-16

V(B) Range:-180 - 180DEG
V(B) Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.267
Humidity:65.0%
Test Distance:8.250m [K=1.0000]
Remarks:sales@led321.com

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:224.4V I:0.2250A P:49.30W PF:0.9750 Lamp Flux:4930x1 lm		
NAME: 50W_Flood Light-110Degree_Cover(6000-6500 K)	TYPE:LED Flood Light	WEIGHT:3.45 KG
DIM.: 23.5*28.5*27.5 CM	SPEC.:FL-1*50W	SERIAL No.:
MFR.: NOMO GROUP CO.,LIMITED	SUR.:21.5*16.5 CM	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
-180	3.12	3.35	3.60	3.89	4.21	4.52	4.85	5.15	5.40	5.64	5.94	6.25	6.64	7.20	7.86	8.54	9.15	9.58	9.53
-170	3.12	3.43	3.75	4.13	4.56	5.00	5.46	5.92	6.35	6.76	7.24	7.75	8.29	8.89	9.25	9.41	9.54	9.67	9.67
-160	3.12	3.49	3.88	4.34	4.86	5.39	5.97	6.55	7.14	7.72	8.32	8.56	8.74	8.90	9.06	9.22	9.34	9.39	9.36
-150	3.12	3.54	3.98	4.49	5.07	5.68	6.31	7.02	7.68	7.93	8.12	8.29	8.45	8.59	8.73	8.86	8.93	8.94	8.90
-140	3.12	3.57	4.05	4.60	5.19	5.85	6.51	7.05	7.36	7.60	7.79	7.94	8.07	8.20	8.31	8.40	8.43	8.42	8.39
-130	3.12	3.59	4.09	4.64	5.23	5.88	6.43	6.69	6.93	7.17	7.37	7.52	7.64	7.73	7.81	7.86	7.88	7.87	7.85
-120	3.12	3.60	4.10	4.63	5.20	5.79	6.06	6.28	6.48	6.66	6.82	6.96	7.09	7.18	7.26	7.28	7.29	7.28	7.25
-110	3.12	3.59	4.07	4.57	5.09	5.54	5.70	5.84	5.98	6.12	6.23	6.34	6.43	6.51	6.57	6.58	6.57	6.56	6.53
-100	3.12	3.57	4.02	4.47	4.93	5.23	5.32	5.40	5.48	5.56	5.63	5.70	5.76	5.82	5.84	5.84	5.83	5.81	5.79
-90	3.12	3.53	3.93	4.33	4.74	4.95	4.97	4.99	5.02	5.04	5.07	5.10	5.13	5.16	5.17	5.15	5.13	5.12	5.10
-80	3.12	3.48	3.83	4.17	4.51	4.70	4.73	4.97	5.32	5.75	6.28	6.81	7.33	7.82	8.30	8.75	9.14	9.47	9.74
-70	3.12	3.43	3.72	4.08	4.87	6.09	7.38	8.79	10.1	11.2	12.5	14.1	17.6	30.0	70.6	115	150	168	172
-60	3.12	3.36	3.67	4.88	7.08	9.78	12.5	15.3	34.8	139	295	360	407	450	484	512	534	548	556
-50	3.12	3.30	3.98	6.54	10.2	14.4	21.0	79.2	239	423	522	586	639	686	727	762	792	815	832
-40	3.12	3.23	4.59	8.43	13.4	19.6	35.7	289	514	608	687	754	814	868	913	951	992	1023	1045
-30	3.12	3.19	5.31	10.1	16.5	25.5	223	523	630	724	807	881	949	1010	1067	1131	1188	1225	1253
-20	3.12	3.15	5.93	11.5	19.0	50.7	436	613	720	811	888	962	1031	1093	1148	1212	1278	1325	1355
-10	3.12	3.10	6.32	12.4	20.7	102	526	669	779	876	958	1029	1096	1177	1250	1318	1396	1465	1503
0	3.12	3.04	6.40	12.6	21.2	115	554	696	809	909	999	1081	1155	1212	1264	1332	1422	1497	1527
10	3.12	3.04	6.22	12.2	20.8	103	533	677	789	890	975	1050	1129	1203	1259	1335	1403	1480	1520
20	3.12	3.03	5.72	11.2	19.1	53.0	448	630	738	835	920	995	1067	1136	1191	1258	1322	1367	1395
30	3.12	3.01	5.00	9.72	16.3	25.9	228	548	658	755	844	922	990	1052	1117	1182	1234	1271	1300
40	3.12	3.00	4.18	7.92	12.9	19.7	36.0	302	549	646	728	805	868	922	971	1012	1054	1087	1108
50	3.12	3.01	3.47	5.84	9.35	13.8	21.3	85.6	267	464	571	637	696	747	790	824	850	872	885
60	3.12	3.03	3.05	4.05	6.04	8.69	11.7	15.6	36.6	154	330	412	462	499	527	560	587	606	619
70	3.12	3.06	3.02	3.09	3.64	4.69	6.09	7.71	9.31	10.9	12.8	14.6	24.6	69.3	120	165	204	228	237
80	3.12	3.10	3.07	3.04	3.04	3.06	3.12	3.39	3.79	4.26	4.80	5.31	5.82	6.29	6.86	7.50	8.09	8.61	9.06
90	3.12	3.13	3.14	3.15	3.16	3.16	3.17	3.18	3.19	3.20	3.21	3.21	3.22	3.22	3.22	3.21	3.20	3.20	3.19
100	3.12	3.17	3.21	3.26	3.30	3.34	3.38	3.43	3.48	3.52	3.55	3.57	3.59	3.61	3.61	3.61	3.60	3.59	3.57
110	3.12	3.21	3.29	3.37	3.44	3.52	3.62	3.71	3.80	3.88	3.95	4.00	4.05	4.08	4.11	4.12	4.12	4.11	4.09
120	3.12	3.24	3.36	3.47	3.61	3.73	3.87	4.01	4.14	4.26	4.37	4.45	4.53	4.59	4.64	4.65	4.66	4.66	4.64
130	3.12	3.28	3.42	3.58	3.75	3.94	4.12	4.30	4.47	4.63	4.78	4.90	4.99	5.06	5.11	5.15	5.17	5.18	5.16
140	3.12	3.30	3.48	3.69	3.90	4.13	4.35	4.56	4.78	4.97	5.14	5.27	5.39	5.50	5.60	5.67	5.72	5.73	5.71
150	3.12	3.33	3.53	3.76	4.03	4.30	4.54	4.80	5.04	5.23	5.41	5.59	5.79	5.98	6.16	6.32	6.45	6.50	6.48
160	3.12	3.34	3.57	3.83	4.13	4.42	4.70	4.98	5.22	5.43	5.63	5.89	6.17	6.50	6.91	7.28	7.55	7.67	7.62
170	3.12	3.35	3.59	3.87	4.19	4.49	4.81	5.10	5.34	5.57	5.84	6.14	6.48	6.98	7.57	8.16	8.66	8.86	8.83
180	3.12	3.35	3.60	3.89	4.21	4.52	4.85	5.15	5.40	5.64	5.94	6.25	6.64	7.20	7.86	8.54	9.15	9.58	9.54

H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2012-08-16

V(B) Range:-180 - 180DEG
V(B) Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.267
Humidity:65.0%
Test Distance:8.250m [K=1.0000]
Remarks:sales@led321.com

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:224.4V I:0.2250A P:49.30W PF:0.9750 Lamp Flux:4930x1 lm		
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DIM.: 23.5*28.5*27.5 CM	SPEC.:FL-1*50W	SERIAL No.:
MFR.: NOMO GROUP CO.,LIMITED	SUR.:21.5*16.5 CM	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	
-180	9.71	9.60	9.47	9.30	9.11	8.92	8.71	8.49	8.22	7.92	7.54	7.10	6.64	6.20	5.77	5.38	5.04	4.78	
-170	9.63	9.47	9.35	9.21	9.05	8.85	8.64	8.40	8.15	7.84	7.47	7.05	6.60	6.17	5.75	5.37	5.03	4.78	
-160	9.32	9.22	9.09	8.93	8.79	8.62	8.44	8.21	7.96	7.66	7.31	6.91	6.50	6.08	5.69	5.34	5.01	4.78	
-150	8.87	8.80	8.70	8.57	8.41	8.26	8.09	7.90	7.66	7.39	7.05	6.69	6.32	5.95	5.60	5.28	4.98	4.78	
-140	8.36	8.31	8.22	8.11	7.98	7.82	7.66	7.49	7.28	7.01	6.72	6.41	6.09	5.78	5.48	5.20	4.95	4.78	
-130	7.82	7.77	7.70	7.60	7.49	7.35	7.18	6.99	6.80	6.57	6.34	6.07	5.82	5.57	5.34	5.12	4.90	4.78	
-120	7.22	7.16	7.09	7.00	6.88	6.74	6.60	6.43	6.27	6.10	5.91	5.72	5.53	5.36	5.18	5.02	4.85	4.78	
-110	6.49	6.43	6.36	6.28	6.18	6.08	5.97	5.84	5.71	5.59	5.48	5.36	5.24	5.12	5.02	4.91	4.80	4.78	
-100	5.74	5.69	5.63	5.56	5.49	5.42	5.34	5.25	5.17	5.11	5.06	5.00	4.94	4.89	4.84	4.80	4.77	4.78	
-90	5.06	5.01	4.96	4.91	4.87	4.84	4.81	4.78	4.75	4.74	4.74	4.73	4.73	4.73	4.74	4.75	4.77	4.78	
-80	9.69	9.59	9.44	9.24	9.24	9.35	9.38	9.33	9.19	8.68	8.10	7.46	6.86	6.21	5.60	5.14	4.87	4.78	
-70	203	227	249	260	228	177	115	62.8	20.6	16.1	14.1	12.5	10.9	9.21	7.49	6.06	5.10	4.78	
-60	569	575	573	564	546	525	498	463	369	223	82.1	23.4	15.9	12.8	9.97	7.33	5.43	4.78	
-50	834	830	820	804	776	740	697	652	596	517	312	70.5	22.7	16.7	12.5	8.81	5.84	4.78	
-40	1045	1034	1014	985	948	906	856	799	739	668	577	335	50.9	21.1	14.8	10.2	6.28	4.78	
-30	1257	1251	1207	1144	1094	1038	975	912	847	775	681	545	195	25.8	16.9	11.4	6.68	4.78	
-20	1375	1367	1304	1237	1178	1102	1037	976	916	841	749	633	336	37.3	18.8	12.3	7.00	4.78	
-10	1521	1510	1422	1337	1266	1166	1083	1025	958	881	789	675	416	45.8	19.9	12.8	7.19	4.78	
0	1537	1488	1395	1306	1229	1169	1110	1051	976	895	802	689	429	35.5	20.2	13.0	7.25	4.78	
10	1537	1529	1434	1339	1262	1168	1093	1028	957	878	785	674	423	51.7	20.0	12.8	7.16	4.78	
20	1408	1394	1338	1270	1202	1125	1053	979	913	834	745	634	355	47.0	18.9	12.2	6.93	4.78	
30	1303	1297	1256	1191	1132	1071	997	925	848	765	678	558	222	27.2	17.1	11.3	6.57	4.78	
40	1107	1094	1070	1035	994	949	896	831	761	679	594	381	77.0	21.8	14.8	10.1	6.11	4.78	
50	883	875	859	841	817	789	752	698	631	554	354	101	23.9	17.0	12.3	8.61	5.62	4.78	
60	626	627	622	606	589	569	540	497	393	247	105	31.5	16.2	12.6	9.68	7.02	5.15	4.78	
70	262	280	296	310	283	223	166	110	47.7	20.2	15.5	12.7	10.6	8.73	6.99	5.54	4.77	4.78	
80	9.08	9.03	8.90	8.72	8.84	9.10	9.18	9.13	8.92	8.28	7.55	6.72	5.84	5.13	4.66	4.45	4.51	4.78	
90	3.16	3.13	3.09	3.06	3.04	3.04	3.03	3.02	3.01	3.01	3.01	3.01	3.01	3.01	3.20	3.60	3.99	4.38	4.78
100	3.53	3.48	3.43	3.37	3.32	3.28	3.24	3.20	3.15	3.11	3.07	3.03	2.99	3.20	3.59	3.98	4.38	4.78	
110	4.04	3.99	3.93	3.86	3.80	3.73	3.65	3.57	3.48	3.41	3.33	3.25	3.17	3.42	3.78	4.10	4.42	4.78	
120	4.60	4.54	4.46	4.38	4.30	4.21	4.10	3.98	3.87	3.75	3.61	3.48	3.40	3.71	3.99	4.26	4.49	4.78	
130	5.11	5.05	4.96	4.88	4.78	4.68	4.55	4.41	4.25	4.09	3.91	3.72	3.84	4.05	4.26	4.43	4.58	4.78	
140	5.65	5.55	5.43	5.34	5.21	5.07	4.93	4.77	4.60	4.40	4.18	4.20	4.34	4.46	4.54	4.61	4.67	4.78	
150	6.36	6.19	6.00	5.83	5.65	5.46	5.26	5.07	4.88	4.66	4.79	4.88	4.91	4.89	4.85	4.81	4.77	4.78	
160	7.43	7.13	6.78	6.42	6.10	5.81	5.55	5.36	5.55	5.68	5.69	5.62	5.50	5.34	5.17	5.01	4.86	4.78	
170	8.51	8.04	7.51	6.96	6.71	6.79	6.86	6.89	6.88	6.80	6.63	6.38	6.09	5.78	5.48	5.21	4.96	4.78	
180	9.71	9.60	9.47	9.30	9.11	8.92	8.71	8.49	8.22	7.92	7.54	7.10	6.64	6.20	5.77	5.38	5.04	4.78	

H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2012-08-16

V(β) Range:-180 - 180DEG
V(β) Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.267
Humidity:65.0%
Test Distance:8.250m [K=1.0000]
Remarks:sales@led321.com